Panasonic®

ICX

Integrated Communication eXchange

Technical Manual

Section 400 Programming

United Kingdom

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Introduction to ICX Programming

This Introduction is an overview of programming an ICX phone system using a Panasonic ICX phone.

The following table summarises the topics contained in this Introduction.

Introduction

Before You Begin

This section describes preparations that should be completed ***before you start programming*.** If you are already familiar with ICX FF-key programming, you can begin programming as soon as these preparations have been made.

However, if you are not familiar with FF-key programming, read **Understanding FF-Key Programming** on page Intro-13 before you begin.

Preparations for Programming

Before programming the phone system, make sure the following steps have been completed:

1. Confirm that the purchased phone system meets the customer's feature requirements. See *Section 700-Feature Operation* for feature descriptions.
2. Confirm that all hardware required for the selected features has been obtained. See *Section 300-Installation* for details.
3. Use *Section 450-Configuration Forms & Tables* to record the customer's site data. Use the following guidelines when completing *Configuration Forms & Tables:*
   - Be sure to record ***all*** program entries.
   - Leave the default values for equipment that is not connected.
   - Pay careful attention to program items that require a power-down to take effect. Be sure to complete the necessary programming in these areas before you make the system operational.
4. To program a system for the first time, you must first initialise the software to default values (see **Initialising a New Phone System,** next page).

Once these steps are completed, use the customer's site data recorded in *Forms & Tables,* as well as this *Section 400-Programming,* to program the phone system.

IMPORTANT: A display phone is required for FF-key programming.

Introduction

Initialising a New Phone System

CPC Reset ("RAMCLEAR")

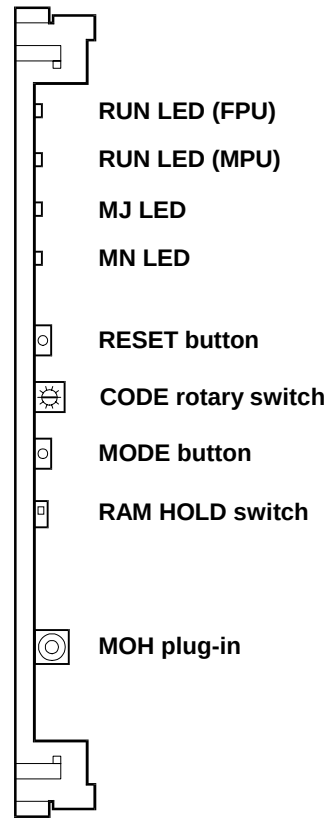
After installing a phone system for the first time, the CPC (Central Processing Card) should be reset to default values before programming the system.

IMPORTANT: This procedure **must** be performed before you program the system; otherwise, the system will not work.

The switches, buttons and LEDs in the following steps are located on the CPC card.

1. Set the CODE rotary switch to 2.
2. Set the RAM HOLD switch to OFF.
3. Press and hold in the MODE button, then press the RESET button or power-on the system.
   - Wait for the MJ (Major) and MN (Minor) LEDs to come on before releasing the MODE button.
4. Move the RAM HOLD switch to ON.
   - Wait for the system to power itself off, then back on.
   - All display phones should now show "Welcome to ICX" on the top line.
5. At any installed display phone, press ON/OFF. This will bring up Programming Mode, and display the software version number.
6. Perform **Initial Settings** for the system, either manually via Programming Mode (see next page) or by choosing a set of preprogrammed initial settings (see pg. Intro-6).

The CPC-576 Card



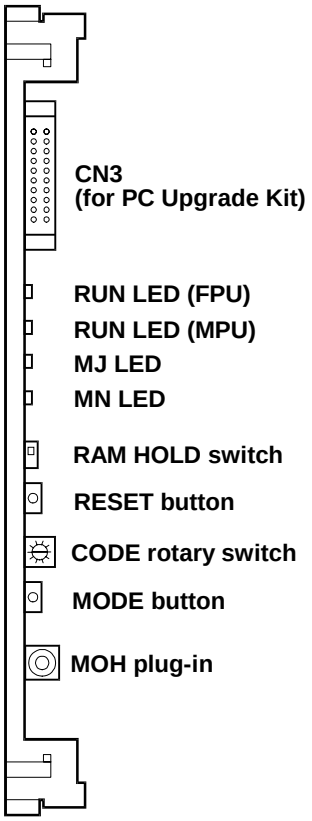
Initial Settings (Manual)

1. Perform the following programming settings. These settings are the minimum required to make the system work:
   - **System Size** (see pg. 0-5)
     00 Hold (1-6) Hold
   - **Free Slot Assignment*** (see pg. 0-6)
     01 (1-6) (01-12) Hold (1-99) Hold
   - **Option Slot Assignment*** (see pg. 0-7)
     02 (1-6) (13 or 14) Hold (50 or 61) Hold
   - **System Date/Time** (optional; see pg. 8-42)
     FF8 1 000 Hold (yymmdd) Hold (hhmm) Hold (1=Monday, 2=Tuesday, ... 7=Sunday) Hold
2. Press ON/OFF to exit Programming Mode.
3. On the CPC card, press RESET (and release quickly).
4. Wait for the system to power itself off, then back on. All display phones should read:

   1 JAN WED 0:00
   Ext

** Eventually, most cards will be automatically detected when they are installed.*

The CPC-288 Card



Introduction

Auto-Configuration (for single-CCU systems only)

This procedure will automatically configure a single-CCU system for a selectable set of pre-defined settings (see table, next page).

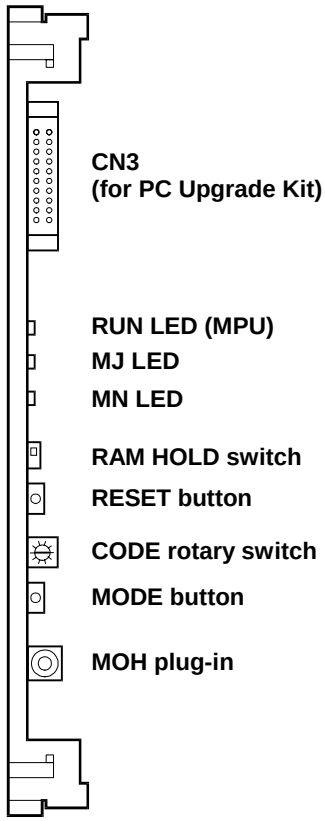
1. Set the CODE rotary switch to 1.
2. Set the RAM HOLD switch to OFF.
3. Hold in the MODE button on the CPC card, and either press the RESET button or power-on the system.
   - Wait for the MN LED to come on before releasing the MODE button.
4. Move the RAM HOLD switch to ON.
5. At an installed extension display phone, press ON/OFF. The phone should display:

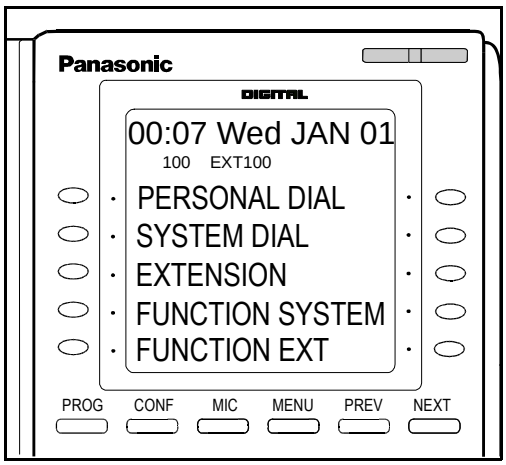
   ```
   Pattern #:0
   Range : 1 - 6
   ```

6. Dial the desired System Configuration Pattern No. 1-6 (see table, next page).
7. Press HOLD.
8. Press ON/OFF.
9. Wait for the initialise auto-configuration process to complete.

   Successful completion will be indicated by the system returning to normal operating mode (the main screen will appear on the phone):

The CPC-96 Card





10. After the Auto-Configuration process is complete, change the CODE rotary switch back to “2” (to avoid accidental memory erasure in the future).

Table Intro-1. Auto-Configuration settings for CODE Rotary Switch set to “1”

System Config. Pattern No.	-- Free Slots --											
	1	2	3	4	5	6	7	8	9	10	11	12
1	ExchLn 1-8	EXT 100-107	EXT 108-115	EXT 116-123	EXT 124-131							
2	ExchLn 1-8	EXT 100-107	EXT 108-115	VM (4-port) VPU Ext.600-603, in Hunt Group 1								
3	ExchLn 1-8	ExchLn 9-16	EXT 100-107	EXT 108-115	EXT 116-123							
4	ExchLn 1-8	ExchLn 9-16	ExchLn 17-24	EXT 100-107	EXT 108-115	EXT 116-123	EXT 124-131	EXT 132-139	EXT 140-147	EXT 148-155	EXT 156-163	EXT 164-171
5	ExchLn 1-8	ExchLn 9-16	ExchLn 17-24	EXT 100-107	EXT 108-115	EXT 116-123	EXT 124-131	EXT 132-139	EXT 140-147	VM (8-port) VPU Ext.600-607, in Hunt Group 1		not used
6	ExchLn 1-8	ExchLn 9-16	ExchLn 17-24	ExchLn 25-32	EXT 100-107	EXT 108-115	EXT 116-123	EXT 124-131	EXT 132-139	EXT 140-147	EXT 148-155	EXT 156-163

NOTES:

FF-Key Assignments: On the auto-configured extensions, FF1=ExchLn#1; FF2=ExchLn#2; ... FF32=ExchLn#32.

Ringing: On Extensions 100 and 101, ExchLns#1 thru #32 will ring the extension for incoming calls.

EXT Assignments: Can be either AEC or DEC cards. The system will automatically detect these cards when they are installed.

Built-In VM (in Pattern 2): VPU Ports 1-4 are assigned Extension Nos. 600-603, and included in Hunt Group #1. Hunting method is Pilot Distributed. However, the Hunt Group’s pilot number is not assigned.
Built-In VM (in Pattern 5): VPU Ports 1-8 are assigned Extension Nos. 600-607, and included in Hunt Group #1. Hunting method is Pilot Distributed. However, the Hunt Group’s pilot number is not assigned.

Patterns 1-3: *(all countries except USA)* Intended for CAB-40.
USA only: If Pattern 2 is used, be sure to change the FS-5 card assignment (VSSC Card always goes in FS-11).

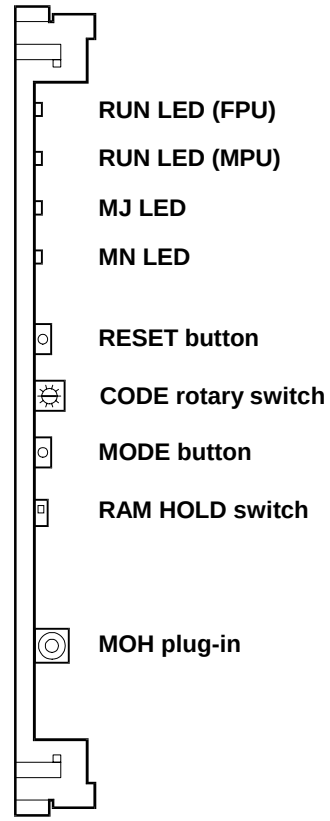
Introduction

System CPC Modes

The ICX offers several system CPC modes, which are automatically entered upon system startup (depending on current configuration's needs). These CPC modes provide a way to perform functions such as the following:

- ❒ normal system operation
- ❒ clearing of data at startup
- ❒ automatic or manual reading of system size
- ❒ diagnosing memory
- ❒ diagnosing LSI

The CPC-576 Card



Codes 0-3: Switch Operation Mode

The Switch Operation Mode executes normal system switching operation on the basis of stored (programmed) data.

To enter Switch Operation Mode:

1. Make sure the RAM HOLD switch is ON.
2. Set the CODE rotary switch to either 0, 1, 2, or 3.
3. Press RESET or power-on the system.
4. As the system starts up, the MJ (Major) then the MN (Minor) LEDs light. When the startup sequence is complete and the CPC card is in normal operation mode, the RUN LEDs blink.

Code 4: System Diagnostic Mode 1 - Memory

CAUTION: This procedure interrupts call processing. Make certain to perform this test when it has the least impact on the system.

This procedure analyses the memory on the CPC card.

1. Set the CODE rotary switch to 4 and the RAM HOLD switch to OFF.
2. Press and hold RESET.
3. When the MJ LED lights, release RESET and change the CODE rotary switch as follows:
   - 2 (D-RAM status information test)

- 3 (S-RAM programming information test)
- 5 (dual-port RAM test)

4. Press and release the MODE button.
   - MN LED blinks during testing.
5. When the MN LED goes off, the test is passed. If the LED does not extinguish, the memory does not pass the test.
6. After the test is passed, restart the system in the desired mode.

Code 5: System Diagnostic Mode 2 - LSI

CAUTION: This procedure interrupts call processing. Make certain to perform this test when it has the least impact on the system.

This procedure analyses the LSI on the CPC card.

1. Set the CODE rotary switch to 5 and the RAM HOLD switch to OFF.
2. Press and hold RESET.
3. When MJ LED lights, release RESET and change the rotary switch as follows:
   - 2 (D-RAM status information test)
   - 3 (S-RAM programming information test)
   - 5 (dual-port RAM test)
4. Press and release the MODE button.
   - MN LED blinks during testing.
5. When the MN LED goes off, the test is passed. If the LED does not extinguish, the memory does not pass the test.
6. After the test is passed, restart the system in the desired mode.

Code 6: CPC Copy

CAUTION: This procedure interrupts call processing. Make certain to perform this procedure when it has the least impact on the system.

This procedure copies the contents of a programmed CPC card (“original CPC”) to another CPC card (“new CPC”).

*NOTE: Before performing **CPC Copy,** be sure to first RAMCLEAR the new CPC. Follow the instructions on pg. Intro-4.*

NOTE: The new CPC cannot have a lower capacity than the original CPC. For instance, a CPC-288 cannot be copied to a CPC-96 (only to another CPC-288 or to a CPC-576).

1. Power-off the system.
2. The ***original CPC*** should be mounted in the "CPC" slot of the main CCU, with its CODE rotary switch set to "6" and its RAM HOLD switch "ON."
3. *(USA only - not required in all other countries)* If the system is to use pooled line (MCO) access, cut the MCO strap on the ***new CPC*** (labeled "J1" on a CPC-96 or CPC-288, or "J7" on a CPC-576). Otherwise, MCO trunk groups won't be copied.
4. Place the ***new CPC*** into the "OP2" slot of the main CCU, with its RAM HOLD switch "ON."
5. Power-on the system. On the ***original CPC*** in the "CPC" slot ...
   - MJ LED should light.
   - MN LED should blink, indicating start of copy.
   - When the MN LED goes out, the copy process is complete.
6. Power-off the system.
7. Remove the ***new CPC*** from the "OP2" slot.
8. If the ***original CPC*** is being left in the "CPC" slot, return its CODE rotary switch to "2."

Software Upgrade Procedure via the PC Card

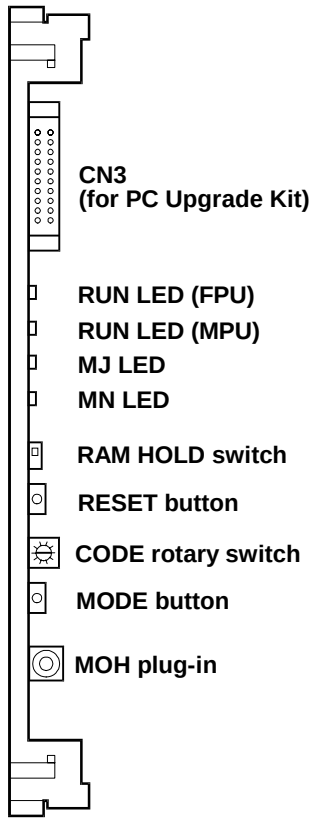
There are two hardware components in a software upgrade:

The PC Card	This card looks like a 3-1/2" diskette, but is more rectangular in shape. The PC Card stores all the software upgrade data.
The PC Upgrade Kit	This is a PCB with a special connector on the edge, and a slot on its surface to hold the PC Card.

Software Upgrade Procedure for CPC-96 and CPC-288

1. Power-off the system.
2. On the CPC card, take note of the current arrow position on the CODE rotary switch (you'll be setting it back to this position after the upgrade). Then turn it to:
   - ❒ ***"2" for New Software Release*** or
   - ❒ ***"4" for Software Upgrade.***
3. Insert the PC Card into the slot on the PC Upgrade Kit, with the PC Card's label facing up.
4. Plug the PC Upgrade Kit into the special connector (CN3) on the edge of the CPC-96 or CPC-288 card. The connectors are shaped so that the Upgrade Kit can plug-in only one way. (It is not necessary to remove the CPC card to do this.)
5. Power-on the system.
   - ❒ The "MN" LED on the CPC card will fast-blink for a few minutes while the system's Flash ROM is upgraded.
   - ❒ When the upgrading is complete, the "MN" LED will extinguish.
6. Power-off the system again.

The CPC-288 Card



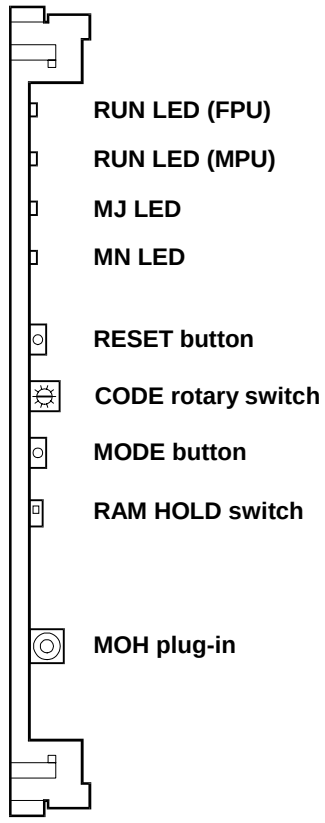
7. Unplug and remove the PC Upgrade Kit from the CPC card.
8. On the CPC card, set the CODE rotary switch back to the position it was in before the upgrade.
9. On the CPC card, press and hold down the MODE button, then power-on the system. Keep holding the MODE button down until the "MN" LED starts flashing red. The following events should occur in this order:
   - ❒ The "MN" LED will intermittently flash red. (Release the MODE button.)
   - ❒ The "RUN" LED will flash red.
   - ❒ The "MN" LED will stop flashing.
   - ❒ On installed display phones, "Welcome to ICX" will display.
10. On the CPC card, press the RESET button.
    - ❒ After a few seconds, the system will power itself off, then back on. All display phones should show the normal menu at idle.

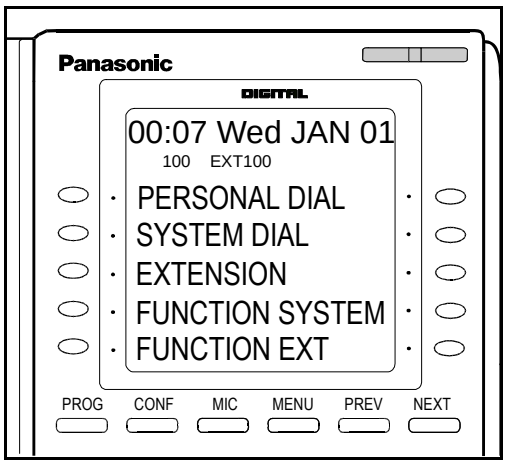
Introduction

Software Upgrade Procedure for CPC-576

1. Power-off the system.
2. Remove the old PC Card from the CPC-576, and insert the new PC Card.
3. On the CPC card, press and hold down the MODE button, then power-on the system. Keep holding the MODE button down until the "MN" LED starts flashing red.
4. Wait until the RUN (top two) LEDs blink continuously and the bottom two (MJ and MN) LEDs remain extinguished.
   - ❒ On installed display phones, "Welcome to DBS" should display on the top line.
5. On the CPC card, press the RESET button.
   - ❒ After a few seconds, the system will shut off, then power-on automatically.
   - ❒ "INITIALIZING" will briefly appear on one of the installed display phones while the system resets itself.
   - ❒ The CPC LEDs should return to normal (top two LEDs blinking continuously; bottom two LEDs off).
   - ❒ All installed display phones should show the normal, main menu:

The CPC-576 Card





Understanding FF-Key Programming

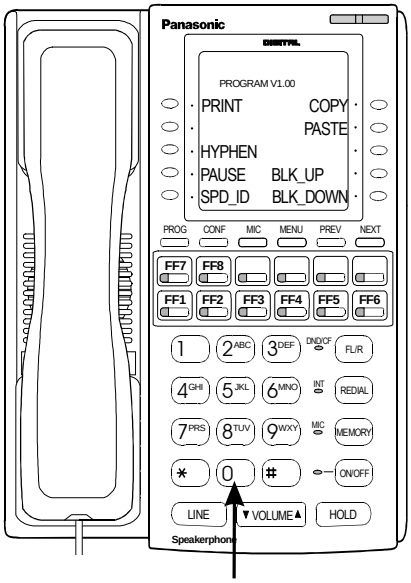
FF-Key Programs: Software Structure

Program entries for the ICX are organised into 9 primary groups:

0	**System Configuration**
1 or FF1	**System Settings**
2 or FF2	**Exchange Lines**
3 or FF3	**Extensions**
4 or FF4	**FF-Keys and Soft Keys**
5 or FF5	**Groups**
6 or FF6	**TRS(Call Barring)/ARS**
7 or FF7	**Applications**
8 or FF8	**Maintenance**

See table, next page for a more detailled breakdown of these groups.

Each group (except for 0: System Configuration) has its own Flexible Function key ("FF-key") on the phone. On digital key telephones, the FF-keys are numbered left-to-right, starting on the bottom row (FF1, FF2, FF3, etc.).



After entering Programming Mode, dial "0" to access System Configuration settings.

After you enter Programming Mode (see instructions on pg. Intro-19):

- press the desired FF-key to start programming the entries ("addresses") in the FF-key group. *OR...*
- press the digit key "2" to enter Exchange Line Programming; or "3" to enter Extension Programming; etc.

In any case, the phone's LCD display will prompt you through the addresses.

NOTE: You must assign the "0: System Configuration" settings before the system will work.

IMPORTANT: A display phone is required for key programming. A Large Display phone is recommended because of the automatic display of One-Touch Key (1-10) functions.

Introduction

Table Intro-2. ICX programming structure

FF-Key	Programming Group
0 (no FF-key)	**SYSTEM CONFIGURATION:**
00:	**System Size**
01:	**Free Slot Assignment**
02:	**Option Slot Assignment**
FF1	**SYSTEM PROGRAMMING:**
FF1 0 ...	**System Common**
01:	**General 1**
02:	**General 2**
03:	**Extension COS Definitions**
04:	**Exchange Line COS Definitions**
05:	**Serial Ports**
06:	**Serial Port Output Data**
07-08:	**PBX Parameters**
09:	**Call Logging Output Format**
10-11:	**Call Restriction Between COS**
12-14:	**MOH Source**
15-17:	**SSD Blocks**
18:	**Synchronised Clock**
19:	**TRS Class for Forced Account Codes**
20:	**Ext.No. Display for Closed-Number Calls**
21:	**Ring Alarm for Unanswered Calls**
22:	**Dealer Programming ID Code**
23 and 24:	**Voice Mail Codes**
25:	**Caller ID Add Digits**
26:	**DISA ID Codes**
FF1 1 ...	**System Timers**
01:	**Exchange Line Timer 1**
02:	**Exchange Line Timer 2**
03:	**Extension Timer 1**
04:	**Extension Timer 2**
FF1 2:	**Dial Plan**
FF1 3:	**MCO Access**
FF1 4:	**DDI/CLI Tables**
FF1 5:	**Not Used**
FF1 6:	**Not Used**
FF1 7:	**Not Used**
FF1 8:	**Digital Pad Settings**
FF2	**EXCHANGE LINES:**
FF2 0:	**Analog Exchange Lines**
FF2 0:	**AC-15 Private Lines**
FF2 1:	**ISDN Exchange Lines**
FF2 2:	**T1-CO Lines *(USA only)***
FF2 2:	**T1-E&M Tie Lines *(USA only)***
FF3	**EXTENSIONS:**
FF3 0:	**Key Telephones/SLTs**
FF3 1:	**ISDN Extensions**
FF3 2:	**Virtual Ports**
FF3 3:	**RAI Ports**

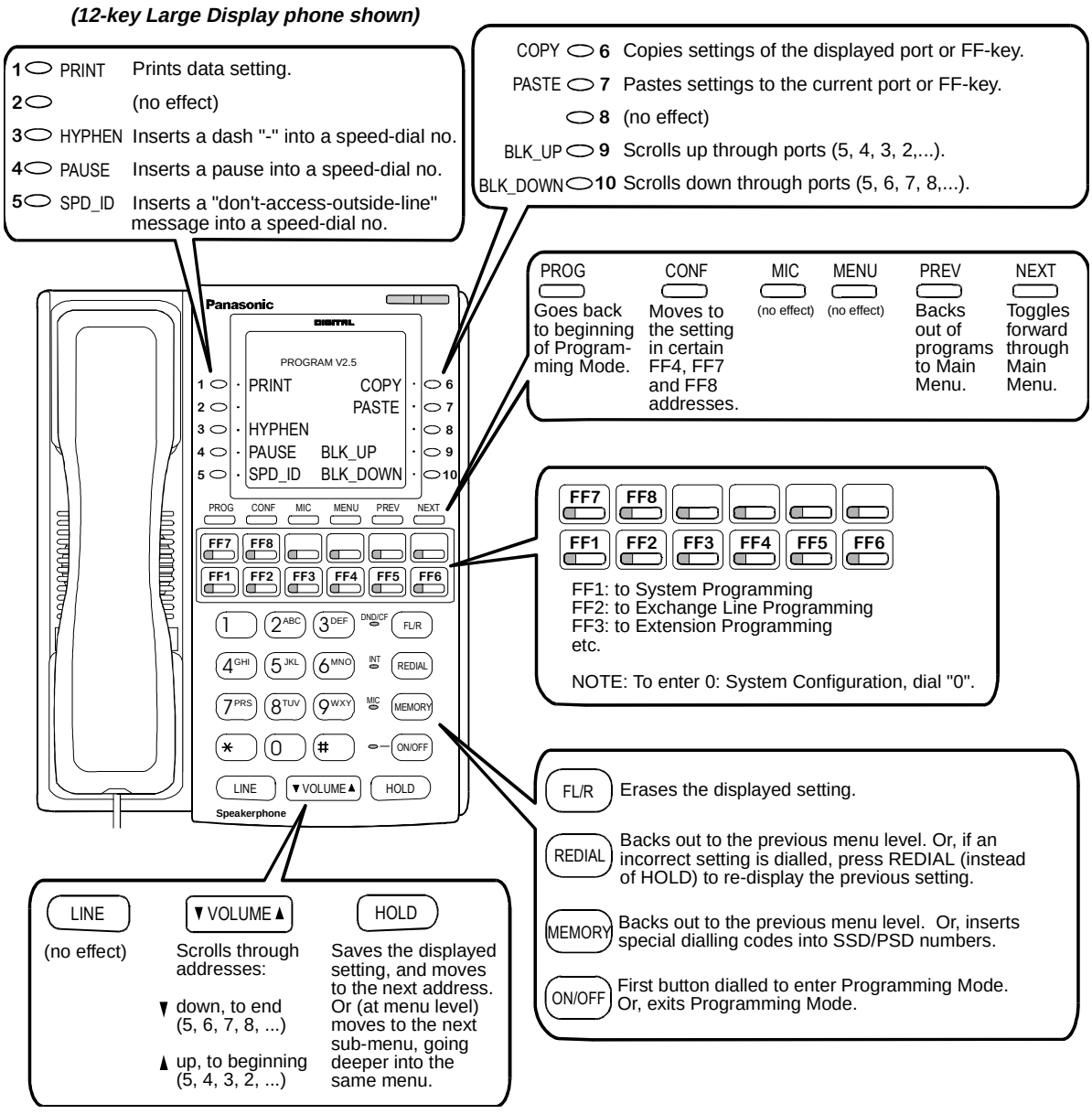
FF-Key	Programming Group
FF4	**FF-KEY/SOFT KEY FEATURE ASSIGNMENTS:**
FF4 0:	**FF-Keys on Digital Keyphones, SLTs, and EM/24s**
FF4 1:	**FF-Keys on DSS/72 Consoles**
FF4 2:	**Soft Keys on Display Phones**
FF5	**GROUPS:**
FF5 0:	**Attendant Hunt Group**
FF5 1:	**Extension Hunt Groups**
FF5 2:	**MCO Outbound Exchange-Line Groups**
FF5 3:	**MCO Inbound Exchange-Line Groups**
FF5 4:	**Paging Groups**
FF5 5:	**Hot Line Group**
FF5 6:	**Call Pickup Groups**
FF6	**TRS(CALL BARRING)/ARS:**
FF6 0 ...	**TRS/ARS Common**
01:	**Leading Digits Table**
02:	**Analyse Digits Table**
FF6 1 ...	**TRS Class Definitions**
00:	**TRS Class -- Path Settings (TRS/non-ARS)**
01:	**TRS Class -- Originator Settings (TRS/ARS)**
02:	**TRS Class -- Dialling Restrictions**
03:	**TRS Class -- SSD Range**
FF6 2 ...	**ARS Settings**
00-02:	**Time List Tables**
03:	**Route List Table**
04:	**Route Table**
05:	**Digit Modify Table**
06:	**Authorisation Code**
07:	**Closed Numbering**
08:	**Tandem Exchange**
FF7	**APPLICATIONS:**
FF7 0:	**Built-In Voice Mail**
FF7 1:	**Built-In ACD**
FF7 2:	**API**
FF8	**MAINTENANCE:**
FF8 0:	**Dealer Maintenance**
FF8 1:	**User Maintenance**

Introduction

FF-Keys and Other Keys Used in Programming Mode

While in Programming Mode, the phone keys can perform special functions such as copying, scrolling, etc. The following illustrations describe these keys and their functions during Programming Mode on each type of phone.

Figure Intro-1: Phone keys during Programming Mode (12-key Large Display)

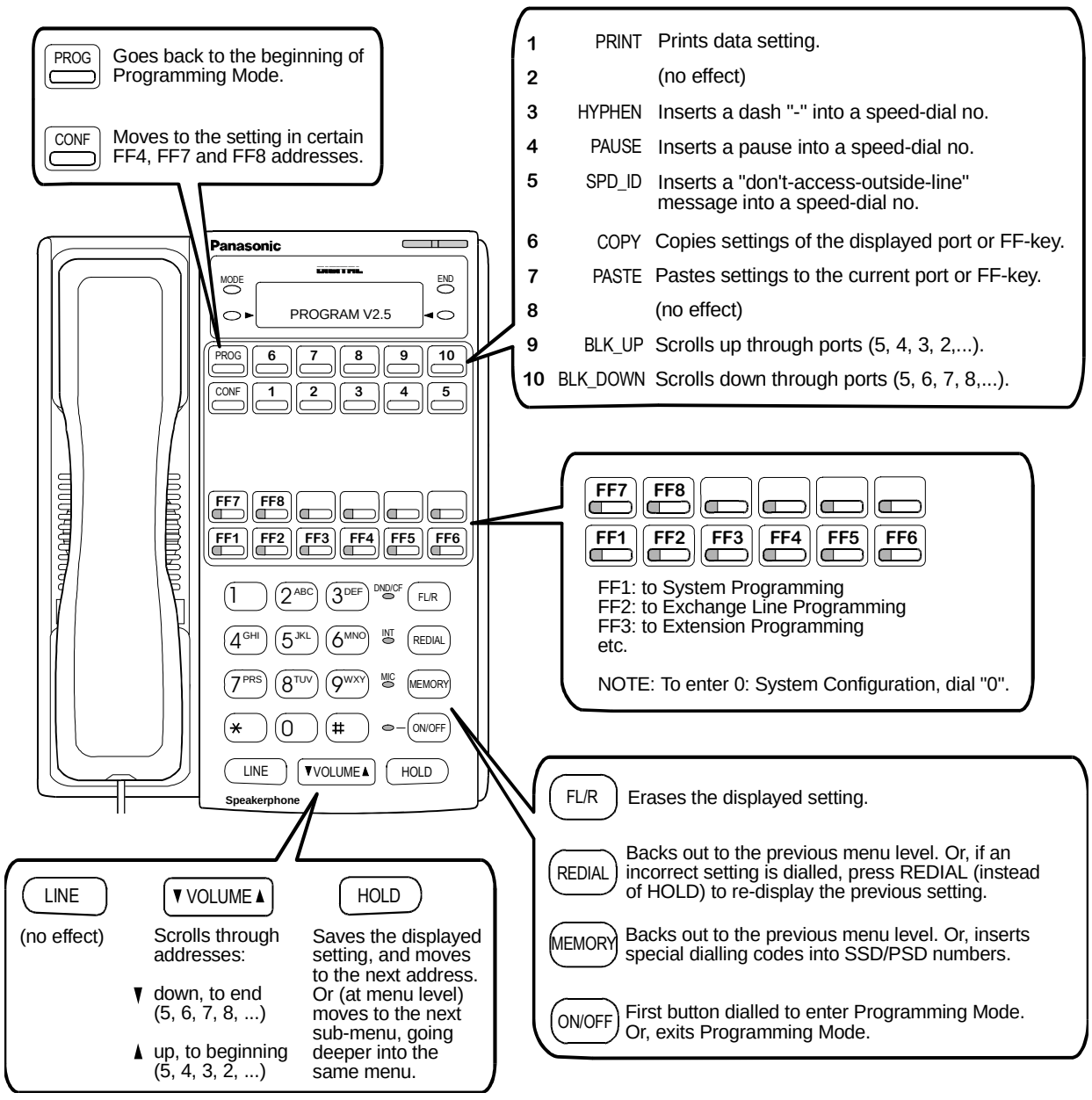


IMPORTANT: A display phone is required for key programming. A Large Display phone is recommended because of the automatic display of One-Touch Key (1-10) functions.

NOTE: Programming keys work differently for **FF7-Applications** after you punch-in the "Detail Setting" address. For FF7 0, see *Section 510: Built-In Voice Mail with 2-Way Call Recording.* For FF7 1, see *Section 520: Built-In ACD Reference.*

Figure Intro-2: Phone keys during Programming Mode (12-key Small Display)

(12-key Small Display phone shown)

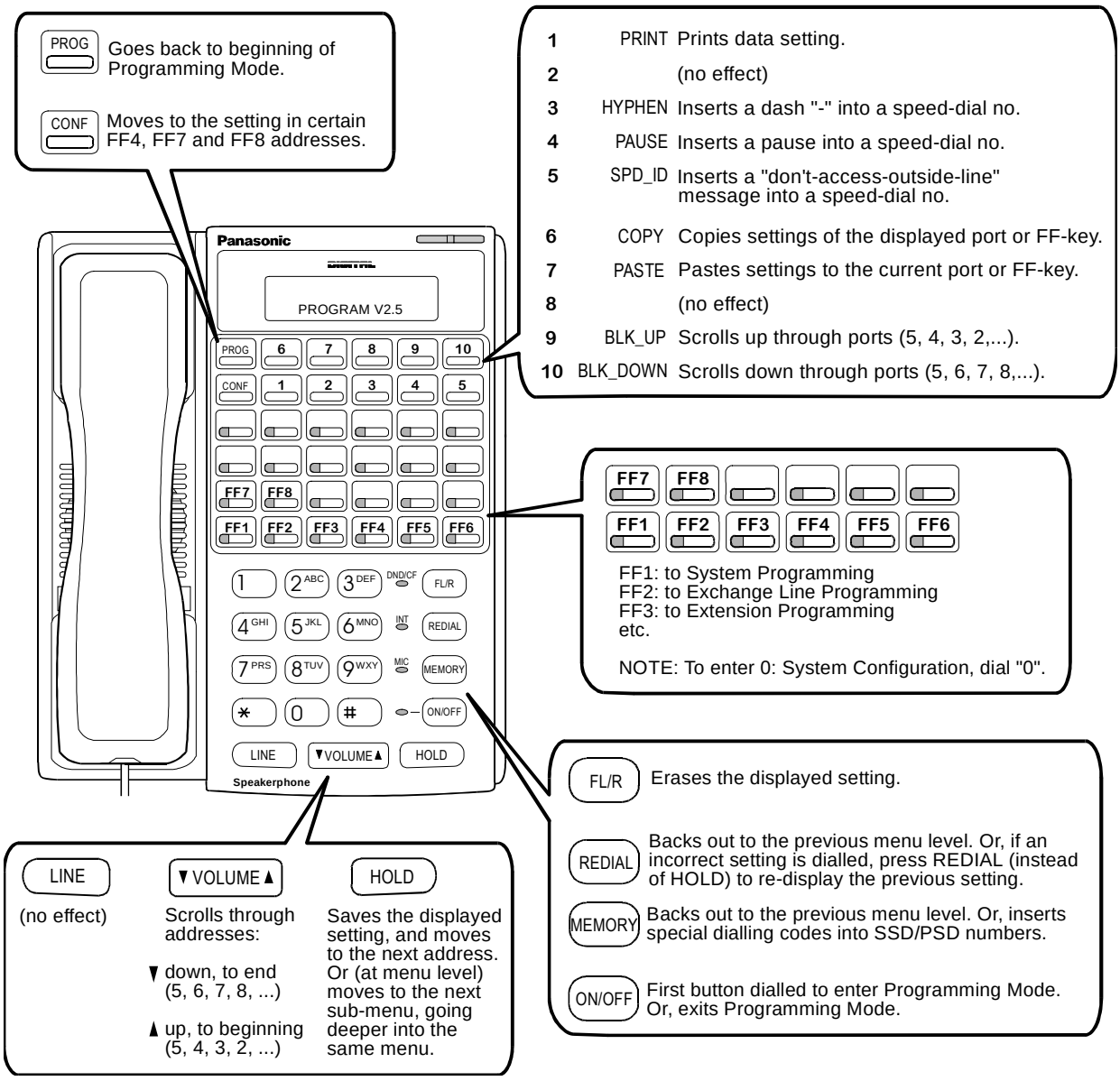


IMPORTANT: A display phone is required for key programming. A Large Display phone is recommended because of the automatic display of One-Touch Key (1-10) functions.

Introduction

Figure Intro-3: Phone keys during Programming Mode (24-key Small Display)

(24-key Small Display phone shown)



IMPORTANT: A display phone is required for key programming. A Large Display phone is recommended because of the automatic display of One-Touch Key (1-10) functions.

How to Enter Programming Mode

Press the following on any display phone:

ON/OFF PROG ** NNNN

(where "NNNN" is the Dealer Programming ID Code -- "9999" by default)

Or, if no Dealer Programming ID Code is set, press the following on the phone at the first digital port:

ON/OFF PROG ** PROG

Verifying the Software Version

When you enter Programming Mode (see above), the system will automatically display the software version on the 2nd line of the display phone's LCD.

Verifying the Extension Port/Exchange Line Port

You must program the appropriate Feature Code into an FF-key:

***59** for Extension Port Confirm
***60** for Exchange Line Port Confirm

Or, enter the programming address for **Extension Number** or **Exchange Line Number,** and press the BLK-UP or BLK-DOWN one-touch key to check the assigned numbers for all ports.

Introduction

Sample Address Entries

There are several different ways to enter the same address. You can either step through each menu level, or enter all address numbers sequentially to reach the data entry level in the address -- or a combination of both:

Table Intro-3. Sample Programming Addresses

To perform this function...	***Press...***	***... and the phone will display:***
Enter Programming Mode: NOTE: "NNNN" is the Dealer Programming ID Code.	ON/OFF + PROG + ** + NNNN	PROGRAM V2.5 U
To enable/disable Floating Hold ability (by pressing HOLD) on exchange line FF-keys ... **reference: Floating Hold on Exchange Line Key-- FF1 0 01 0009 Hold (0 or 1) Hold** **(page 1-14 in FF1: SYSTEM PROGRAMMING)**		
to "step through" the menus to the setting:	FF1	1 System Data
	001 + Hold	10-01- General Part1
	0009 + Hold	0009 : 0 Auto Floating
to change the setting to "Enable":	1	0009 : 1 Auto Floating
to save the setting and move to the next address:	Hold	0010 : 0 Virtual Hold
-- or --		
to go directly to the data entry level in the address:	1 + 001 + 0005 + Hold	0009 : 0 Auto Floating
to reset to "Enable" and move to the next address:	1 + Hold	0010 : 0 Virtual Hold
An example of key functions during Exchange Line programming ... **reference: Day1 Delayed Ring Type-- FF2 0 BSSC 04 0 Hold (0-4) Hold** **(page 2-32 in FF2: EXCHANGE LINES)**		
To enter Analog Exchange Line addresses:	2 + 0 + Hold	20- Analog Trunk
To automatically go to the first analog Exchange Line port (CCU 2, Slot 10, Port 1 in this example):	Hold	2101-00: Trunk Number
To back out of the data setting:	MEMORY	2101- Analog Trunk
To go to the Delayed Ring Assignments sub-menu:	2101 + 4 + Hold	2101-04* Delayed Ring
To go to Day1 Delayed Ring Type for port position 2101 (first address in this sub-menu):	0 + Hold	-040 :0 Day1 D-Ring Type
To view Day1 Delayed Ring Destination for 2101:	Hold	-041 :283 D1 D-Destination

To back up to previous address, Day1 Delayed Ring Type:	VOL ▲ (Volume-Up)	-040 :1 Day1 D-Ring Type
To return to the Delayed Ring Assignments sub-menu:	MEMORY	2101-04* Delayed Ring
To toggle forward through sub-menus for 2101 (staying on the same sub-menu level): *(an asterisk in the display represents settings within the sub-menu)*	VOL ▼ (Volume-Down)	2101-05 :0 Tenant Group
	VOL ▼ (Volume-Down)	2101-06* TRK-TRS Class
To enter the currently displayed sub-menu:	0 + HOLD	2101-060 :1 Day1/2 TRS CLS
To view the next setting in this sub-menu:	HOLD	2101-061 :1 Night TRS CLS
To go back to the beginning of Programming Mode:	PROG	PROGRAM V2.5 U
To enter Digital Extension addresses:	FF3 + Hold	30- KTEL/SLT
...and so on.		
To exit Programming Mode: *(display returns to normal operating mode)*	ON/OFF	12 FEB THU 11:55 301 Davidson C

Introduction

Default Settings

The following tables show the normal (most common) default settings for all ICX programming addresses. Sometimes there are exceptions to the defaults, depending on the countries to which they apply. These exceptions are noted with the address explanations in this manual.

For the acceptable ranges of extension numbers, Exchange Lines, etc. in different system configurations, see *Section 300-Installation.*

Defaults for 0: SYSTEM CONFIGURATION

FF Key Address	Topic	Default (all)	Page
00 Hold (1-6) Hold	System Size	--	0-5
01 (1-6) (01-12) Hold (1-99) Hold	Free Slot Assignment	--	0-6
02 (1-6) (13 or 14) Hold (50 or 61) Hold	Option Slot Assignment	--	0-7

Defaults for FF1: SYSTEM PROGRAMMING

FF Key Address	Topic	Default (U.K.)	Page
FF1 0: System Common			**1-9**
FF1 0 01: General 1			**1-9**
FF1 0 01 0001 Hold (0 or 1) Hold	Splash Tone: Voice Calls	1 (Enabled)	1-9
FF1 0 01 0002 Hold (0 or 1) Hold	Splash Tone: Internal Paging	1 (Enabled)	1-9
FF1 0 01 0003 Hold (0 or 1) Hold	Splash Tone: Busy Override (Start)	1 (Enabled)	1-10
FF1 0 01 0004 Hold (0 or 1) Hold	Splash Tone: Busy Override (Continuous)	0 (Disabled)	1-10
FF1 0 01 0005 Hold (0 or 1) Hold	Splash Tone: 3-Party Conference	0 (Disabled)	1-11
FF1 0 01 0006 Hold (0 or 1) Hold	Exclusive Hold (Exchange Line Key)	1 (Enabled)	1-11
FF1 0 01 0007 Hold (0 or 1) Hold	Virtual Key LED: Answer Control #1	0 (Free-up key)	1-12
FF1 0 01 0008 Hold (0 or 1) Hold	Virtual Key LED: Answer Control #2	1 (Free-up key)	1-13
FF1 0 01 0009 Hold (0 or 1) Hold	Floating Hold on Exchange Line Key	0 (Disabled)	1-14
FF1 0 01 0010 Hold (0 or 1) Hold	Floating Hold on Virtual Port Key	0 (Disabled)	1-14
FF1 0 01 0011 Hold (0 or 1) Hold	Hot Line/MCO Preference for “ON/OFF” Key	0 (Disabled)	1-15
FF1 0 01 0012 Hold (0 or 1) Hold	Programming Mode Entry	1 (Allowed)	1-15
FF1 0 01 0013 Hold (0 or 1) Hold	Built-In VM: Voice Mail Access Key	1 (Enabled)	1-16
FF1 0 01 0014 Hold (0 or 1) Hold	Built-In VM: Mailbox Key	1 (Enabled)	1-16
FF1 0 01 0015 Hold (0 or 1) Hold	Built-In VM: Message Retrieve Key	1 (Enabled)	1-17
FF1 0 01 0016 Hold (0 or 1) Hold	Off-Hook Monitor	1 (Enabled)	1-17
FF1 0 01 0017 Hold (0 or 1) Hold	Handset Mute	1 (Enabled)	1-18
FF1 0 01 0018 Hold (0 or 1) Hold	Hookflash on Rotary SLTs	0 (hookflash)	1-18
FF1 0 01 0019 Hold (0 or 1) Hold	ISDN Outgoing Control	0 (Disabled)	1-19
FF1 0 01 0020 Hold (0 or 1) Hold	Automatic BLF on DSS and EM/24 Units	0 (Disabled)	1-19
FF1 0 01 0021 Hold (0 or 1) Hold	Caller ID Log Outgoing Control	0 (Disabled)	1-20
FF1 0 01 0022 Hold (0 or 1) Hold	Caller ID Log Private/Out-of-Area Control	1 (Enabled)	1-20
FF1 0 01 0023 Hold (0 or 1) Hold	Time Display Mode	1 (12-hour)	1-21

FF1 0 02: General 2			**1-22**
FF1 0 02 0001 Hold (0 or 1) Hold	Exchange Line Numbering	0 (2-digit)	1-22
FF1 0 02 0002 Hold (0 or 1) Hold	SSD Code Numbering	1 (3-digit)	1-22
FF1 0 02 0003 Hold (0 or 1) Hold	SSD Assignment to Groups	0 (Disabled)	1-23
FF1 0 02 0004 Hold (0 or 1) Hold	Exchange Line Access in Speed Dialling	1 (Enabled)	1-23
FF1 0 02 0005 Hold (0 or 1) Hold	Intercom Voice Call Pickup	0 (Disabled)	1-24
FF1 0 02 0006 Hold (0 or 1) Hold	BLF Call Pickup	1 (Enabled)	1-24
FF1 0 02 0007 Hold (0 or 1) Hold	Day/Night Mode Assignment	0 (System-wide)	1-25
FF1 0 02 0008 Hold (0 or 1) Hold	Reset Calling: Intercom Calls	0 (Disabled)	1-26
FF1 0 02 0009 Hold (0 or 1) Hold	Reset Calling: DISA/Private Line	0 (Disabled)	1-26
FF1 0 02 0010 Hold (0 or 1) Hold	ARS/LCR Setting	0 (Disabled)	1-27
FF1 0 02 0011 Hold (0 or 1) Hold	Advanced Routing for MCO Access	0 (Disabled)	1-27
FF1 0 02 0012 Hold (0 or 1) Hold	Page Override	1 (Enabled)	1-28
FF1 0 02 0013 Hold (0 or 1) Hold	Paging Answer on Private Line	0 (no ansr.signl)	1-29
FF1 0 02 0014 Hold (0 or 1) Hold	Howler Tone	0 (Disabled)	1-29
FF1 0 02 0015 Hold (0 or 1) Hold	DISA Invalid Number	0 (multi-incomg.)	1-30
FF1 0 02 0016 Hold (0 or 1) Hold	DISA Interdigit Timeout	0 (multi-incomg.)	1-30
FF1 0 02 0017 Hold (0 or 1) Hold	DISA No-Answer Timeout	0 (multi-incomg.)	1-31
FF1 0 02 0018 Hold (0 or 1) Hold	DDI to Busy Extension (Day1)	0 (busy signal)	1-31
FF1 0 02 0019 Hold (0 or 1) Hold	DDI to Busy Extension (Day2)	0 (busy signal)	1-32
FF1 0 02 0020 Hold (0 or 1) Hold	DDI to Busy Extension (Night)	0 (busy signal)	1-33
FF1 0 02 0021 Hold (0 or 1) Hold	DDI to Incorrect Number (Day1)	0 (busy signal)	1-33
FF1 0 02 0022 Hold (0 or 1) Hold	DDI to Incorrect Number (Day2)	0 (busy signal)	1-34
FF1 0 02 0023 Hold (0 or 1) Hold	DDI to Incorrect Number (Night)	0 (busy signal)	1-34
FF1 0 03: Extension COS Definitions			**1-35**
FF1 0 03 (00-15) 01 Hold (0 or 1) Hold	Extension COS: Intercom Calling Type	0 (Tone)	1-37
FF1 0 03 (00-15) 02 Hold (0 or 1) Hold	Extension COS: Onhook Transfer at Ringback	0 (Allowed)	1-38
FF1 0 03 (00-15) 03 Hold (0 or 1) Hold3	Extension COS: Onhook Transfer at Talk	0 (Allowed)	1-39
FF1 0 03 (00-15) 04 Hold (0 or 1) Hold	Extension COS: Onhook Transfer at Camp-On	0 (Allowed)	1-40
FF1 0 03 (00-15) 05 Hold (0 or 1) Hold	Extension COS: Exclusive Hold for Non-Appearing CO	0 (System Hold) *COS 15: 1 (Excl.Hold)*	1-41
FF1 0 03 (00-15) 06 Hold (0 or 1) Hold	Extension COS: Exclusive Hold on SLTs	0 (System Hold) *COS 15: 1 (Excl.Hold)*	1-42
FF1 0 03 (00-15) 07 Hold (0 or 1) Hold	Extension COS: Brokers Hold on SLTs	1 (Broker's Hold)	1-43
FF1 0 03 (00-15) 08 Hold (0 or 1) Hold	Extension COS: Hookflash Control on SLTs	0 (Allowed)	1-44
FF1 0 03 (00-15) 09 Hold (0 or 1) Hold	Extension COS: SSD Assignment	1 (Not Allowed) *COS 16: 0 (Allowed)*	1-45
FF1 0 03 (00-15) 10 Hold (0 or 1) Hold	Extension COS: SSD Assignment to MCO Tenant Groups	1 (Not Allowed) *COS 16: 0 (Allowed)*	1-46
FF1 0 03 (00-15) 11 Hold (0 or 1) Hold	Extension COS: SSD Dialling	0 (Allowed)	1-47
FF1 0 03 (00-15) 12 Hold (0 or 1) Hold	Extension COS: Intercom Redialling	1 (Not Allowed)	1-48
FF1 0 03 (00-15) 13 Hold (0 or 1) Hold	Extension COS: Direct Exchange-Line Access	0 (Allowed)	1-49
FF1 0 03 (00-15) 14 Hold (0 or 1) Hold	Extension COS: MCO Incoming Call Answer	0 (Allowed)	1-50
FF1 0 03 (00-15) 15 Hold (0 or 1) Hold	Extension COS: Paging	0 (Allowed)	1-51
FF1 0 03 (00-15) 16 Hold (0 or 1) Hold	Extension COS: Auto Repeat Dial	0 (Allowed)	1-52
FF1 0 03 (00-15) 17 Hold (0 or 1) Hold	Extension COS: DND Set/Clear	0 (Allowed) *COS 15: 1 (Not Allwd)*	1-53
FF1 0 03 (00-15) 18 Hold (0 or 1) Hold	Extension COS: DND Set/Clear (Other)	1 (Not Allowed) *COS 16: 0 (Allowed)*	1-54

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FF1 0 03 (00-15) 19 Hold (0 or 1) Hold	Extension COS: Call Forward-All Calls	0 (Allowed) *COS 15: 1 (Not Allwd)*	1-55
FF1 0 03 (00-15) 20 Hold (0 or 1) Hold	Extension COS: Call Forward-No Answer	0 (Allowed) *COS 15: 1 (Not Allwd)*	1-56
FF1 0 03 (00-15) 21 Hold (0 or 1) Hold	Extension COS: Call Forward-Busy	0 (Allowed) *COS 15: 1 (Not Allwd)*	1-57
FF1 0 03 (00-15) 22 Hold (0 or 1) Hold	Extension COS: Call Forward/Other	1 (Not Allowed) *COS 16: 0 (Allowed)*	1-58
FF1 0 03 (00-15) 23 Hold (0 or 1) Hold	Extension COS: User Log-In	1 (Not Allowed) *COS 16: 0 (Allowed)*	1-59
FF1 0 03 (00-15) 24 Hold (0 or 1) Hold	Extension COS: Priority Message-Waiting Send (VM)	1 (Not Allowed) *COS 15: 0 (Allowed)*	1-60
FF1 0 03 (00-15) 25 Hold (0 or 1) Hold	Extension COS: Message-Waiting Send	0 (Allowed) *COS 15: 1 (Not Allwd)*	1-61
FF1 0 03 (00-15) 26 Hold (0 or 1) Hold	Extension COS: System Mode Switch	1 (Not Allowed) *COS 15 and 16: 0 (Allowed)*	1-62
FF1 0 03 (00-15) 27 Hold (0 or 1) Hold	Extension COS: Busy Override Send	0 (Allowed)	1-63
FF1 0 03 (00-15) 28 Hold (0 or 1) Hold	Extension COS: Manual Camp-On Send	0 (Allowed)	1-64
FF1 0 03 (00-15) 29 Hold (0 or 1) Hold	Extension COS: Manual Camp-On Receive	0 (Allowed) *COS 15: 1 (Not Allwd)*	1-65
FF1 0 03 (00-15) 30 Hold (0 or 1) Hold	Extension COS: Callback Request Send	0 (Allowed)	1-66
FF1 0 03 (00-15) 31 Hold (0 or 1) Hold	Extension COS: Callback Request Receive	0 (Allowed)	1-67
FF1 0 03 (00-15) 32 Hold (0 or 1) Hold	Extension COS: Exchange Line Queuing	0 (Allowed)	1-68
FF1 0 03 (00-15) 33 Hold (0 or 1) Hold	Extension COS: Manual DND Override Send	1 (Not Allowed) *COS 16: 0 (Allowed)*	1-69
FF1 0 03 (00-15) 34 Hold (0 or 1) Hold	Extension COS: Forced DND Override	1 (Not Allowed)	1-70
FF1 0 03 (00-15) 35 Hold (0 or 1) Hold	Extension COS: 8-Party Conference	0 (Allowed) *COS 15: 1 (Not Allwd)*	1-71
FF1 0 03 (00-15) 36 Hold (0 or 1) Hold	Extension COS: Voice Call Send	0 (Allowed)	1-72
FF1 0 03 (00-15) 37 Hold (0 or 1) Hold	Extension COS: Voice Call Receive	0 (Allowed) *COS 15: 1 (Not Allwd)*	1-73
FF1 0 03 (00-15) 38 Hold (0 or 1) Hold	Extension COS: Dial Tone Stop	1 (Receive int. dial tone)	1-74
FF1 0 03 (00-15) 39 Hold (0 or 1) Hold	Extension COS: Dial Tone Pre-Pause Check	1 (Check/send re-order tone) *COS 15 and 16: 0 (No Check)*	1-75
FF1 0 03 (00-15) 40 Hold (0 or 1) Hold	Extension COS: Long Talk Alarm	1 (Enabled)	1-76
FF1 0 03 (00-15) 41 Hold (0 or 1) Hold	Extension COS: Recall Timer Apply	0 (Ext.Recall) *COS 16: 1 (Att.Recall)*	1-77
FF1 0 03 (00-15) 42 Hold (0 or 1) Hold	Extension COS: Forced ARS	0 (Disabled)	1-78
FF1 0 03 (00-15) 43 Hold (0 or 1) Hold	Extension COS: API Event Reporting	1 (Enabled)	1-79
FF1 0 03 (00-15) 44 Hold (0 or 1) Hold	Extension COS: Call Forward-Outside	0 (Allowed)	1-80
FF1 0 03 (00-15) 45 Hold (0 or 1) Hold	Extension COS: Onhook Exch.Line-to-Exch.Line Transfer	1 (Not Allowed)	1-81
FF1 0 03 (00-15) 46 Hold (0 or 1) Hold	Extension COS: Station Call Park Answer	0 (Allowed)	1-82
FF1 0 03 (00-15) 47 Hold (0 or 1) Hold	Extension COS: Station Call Park Transfer	0 (Allowed)	1-83
FF1 0 03 (00-15) 48 Hold (0 or 1) Hold	Extension COS: OHVA	0 (Allowed)	1-84
FF1 0 03 (00-15) 49 Hold (0 or 1) Hold	Extension COS: OHVA Answer	0 (Allowed)	1-85
FF1 0 03 (00-15) 50 Hold (0 or 1) Hold	Extension COS: Call-Waiting Answer at HOLD	0 (Allowed)	1-86
FF1 0 03 (00-15) 51 Hold (0 or 1) Hold	Extension COS: On-Hook Park	0 (Allowed)	1-87

FF1 0 04: Exchange Line COS Definitions			**1-88**
FF1 0 04 (00-15) 01 Hold (0 or 1) Hold	Exchange Line COS: Incoming Ring Tone Source	0 (use exch.line's Ring Pattern)	1-88
FF1 0 04 (00-15) 02 Hold (0 or 1) Hold	Exchange Line COS: Dial Tone to Private Line	1 (Enabled)	1-89
FF1 0 04 (00-15) 03 Hold (0 or 1) Hold	Exchange Line COS: Fast-Busy Tone to Private Line	0 (Enabled)	1-90
FF1 0 04 (00-15) 04 Hold (0 or 1) Hold	Exchange Line COS: DDI/CLI Table	0 ("A" side)	1-91
FF1 0 04 (00-15) 05 Hold (0 or 1) Hold	Exchange Line COS: Paging on DISA/Private Line Call	0 (Not Allowed)	1-92
FF1 0 04 (00-15) 06 Hold (0 or 1) Hold	Exchange Line COS: DISA ID Verification	0 (Verify)	1-93
FF1 0 05: Serial Ports			**1-94**
FF1 0 05 0001 Hold (0-7) Hold	Serial Port 1: Data Format	5 (8bits/NoPar./ 1stop)	1-94
FF1 0 05 0002 Hold (0-5) Hold	Serial Port 1: Baud Rate	5 (9600 bps)	1-95
FF1 0 05 0003 Hold (0-2) Hold	Serial Port 1: Protocol	0 (No order)	1-95
FF1 0 05 0004 Hold (0 or 1) Hold	Serial Port 1: Echo Control (future use)	0 (Off)	1-96
FF1 0 05 0005 Hold (1-255) Hold	Serial Port 1: Maximum Input Digits (future use)	80 digits	1-96
FF1 0 05 0017 Hold (0-7) Hold	RAI Serial Port: Data Format	5 (8bits/NoPar./ 1stop)	1-97
FF1 0 05 0018 Hold (0-5) Hold	RAI Serial Port: Baud Rate	3 (2400 bps)	1-97
FF1 0 05 0019 Hold (0-2) Hold	RAI Serial Port: Protocol	0 (No order)	1-98
FF1 0 05 0020 Hold (0 or 1) Hold	RAI Serial Port: Echo Control	0 (Off)	1-98
FF1 0 05 0021 Hold (1-255) Hold	RAI Serial Port: Maximum Input Digits	1 digit	1-99
FF1 0 05 0033 Hold (0-7) Hold	Serial Port 2: Data Format	5 (8bits/NoPar./ 1stop)	1-99
FF1 0 05 0034 Hold (0-5) Hold	Serial Port 2: Baud Rate	5 (9600 bps)	1-100
FF1 0 05 0035 Hold (0-2) Hold	Serial Port 2: Protocol	0 (No order)	1-100
FF1 0 05 0036 Hold (0 or 1) Hold	Serial Port 2: Echo Control	0 (Off)	1-101
FF1 0 05 0037 Hold (1-255) Hold	Serial Port 2: Maximum Input Digits	80 digits	1-101
FF1 0 06: Serial Port Output Data			**1-102**
FF1 0 06 0001 Hold (0-2) Hold	Call Logging Data to Serial Port	1 (Port 1)	1-102
FF1 0 06 0002 Hold (0-2) Hold	Fault Alarm Data to Serial Port	0 (None)	1-102
FF1 0 06 0003 Hold (0-2) Hold	Programmed Data to Serial Port	2 (Port 2)	1-103
FF1 0 06 0004 Hold	Not Used	--	1-103
FF1 0 06 0005 Hold (0-2) Hold	Bus Monitor Data to Serial Port	2 (Port 2)	1-104
FF1 0 07 and 08: PBX Parameters			**1-105**
FF1 0 07 (0001-0012) Hold (0-16) Hold	Auto Pause Position Behind PBX	1 (1st, for "9") 0 (none, all othr)	1-105
FF1 0 08 (0001-0006) Hold FL/R (0-9999) Hold	PBX Exchange Line Access Codes	Code 1: 9 Codes 2-6: none	1-106
FF1 0 09: Call Logging Output Format			**1-107**
FF1 0 09 0001 Hold (0-2) Hold	Call Logging Output Format	1 (Format #1)	1-107
FF1 0 10 and 11: Call Restriction Between COS			**1-108**
FF1 0 10 (00-15) (01-16) Hold (0 or 1) Hold	Call Restriction Between Extension COS	0 (Allowed)	1-108
FF1 0 11 (00-15) (01-16) Hold (0 or 1) Hold	Call Restriction Between Exchange Line COS	0 (Allowed)	1-109

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FF1 0 12, 13, and 14: MOH Source			**1-110**
FF1 0 12 (0001-0072) Hold (0-3) Hold	MOH Source for Exchange Lines	0 (Internal single tone)	1-110
FF1 0 13 (0001-0072) Hold (0-3) Hold	MOH Source for Private Lines	0 (Internal single tone)	1-111
FF1 0 14 (0001-0072) Hold (0-3) Hold	MOH Source for Intercom Calls	0 (Internal single tone)	1-112
FF1 0 15, 16, and 17: SSD Blocks			**1-113**
FF1 0 15 (0001-0072) Hold (0-72) Hold	SSD Block Assignment to MCO Tenant Groups	1 (SSD Block 1)	1-113
FF1 0 16 0001 Hold (0-800) Hold	SSD Common Block for MCO Tenant Groups	0 (none)	1-114
FF1 0 17 (0001-0144) Hold (0-799 or 0-800) Hold	SSD Block Table	See table, pg. 1-115	1-114
FF1 0 18: Synchronised Clock			**1-116**
FF1 018 (0001-0003) Hold (BSS/C) Hold	Synchronized Clock	--	1-116
FF1 0 19: TRS Class for Forced Account Codes			**1-117**
FF1 0 19 0001 Hold (1-50) Hold	TRS Class for Forced Account Codes	TRS Class 1	1-117
FF1 0 20: Ext.No. Display for Closed-Number Calls			**1-117**
FF1 0 20 0001 Hold (0-4) Hold	Ext.No. Display for Closed-Number Calls	0 (no digits)	1-118
FF1 0 21: Ring Alarm for Unanswered Calls			**1-118**
FF1 0 21 0001 Hold (0-6) Hold	Ring Alarm Frequency	1 (400/562Hz)	1-119
FF1 0 21 0002 Hold (0-12) Hold	Ring Alarm Pattern	5 (.25on/2.75off)	1-120
FF1 0 22: Dealer Programming ID Code			**1-121**
FF1 0 22 0001 Hold (0000-9999) Hold	Dealer Programming ID Code	9999	1-121
FF1 0 23 and 24: Voice Mail Codes			**1-122**
FF1 0 23 0001 Hold (0000-9999) Hold	VM Answer Supervision Code	-- (none)	1-122
FF1 0 24 0001 Hold (up to 8 char.) Hold	VM Transfer Code #1: Prefix	-- (none)	1-122
FF1 0 24 0002 Hold (up to 8 char.) Hold	VM Transfer Code #1: Suffix	-- (none)	1-123
FF1 0 24 0003 Hold (up to 8 char.) Hold	VM Transfer Code #2: Prefix	-- (none)	1-123
FF1 0 24 0004 Hold (up to 8 char.) Hold	VM Transfer Code #2: Suffix	-- (none)	1-124
FF1 0 25: Caller ID Add Digits			**1-125**
FF1 0 25 0001 Hold (up to 4 char.) Hold	Caller ID Log Outgoing Add Digits	-- (none)	1-125
FF1 0 26: DISA ID Codes			**1-126**
FF1 0 26 0001 Hold (0-10) Hold	DISA ID Code Numbering	0 (no code)	1-126
FF1 0 26 (0002-0033) Hold (up to 10 digits or 1-50) Hold	DISA ID Codes and TRS Assignments	-- (no code) 0 (no TRS Class)	1-127
FF1 1: System Timers			**1-128**
FF1 1 01: Exchange Line Timer 1			**1-128**
FF1 1 01 0001 Hold (1-255) Hold	Flash Timer 1 for Exchange Line	50 (800ms)	1-128
FF1 1 01 0002 Hold (1-255) Hold	Flash Timer 2 for Exchange Line	5 (80ms)	1-130
FF1 1 01 0003 Hold (1-255) Hold	Flash Timer for Auto-Repeat Dial	124 (1984ms)	1-129
FF1 1 01 0004 Hold (1-255) Hold	Pause Timer	3 (seconds)	1-130
FF1 1 01 0005 Hold (1-255) Hold	Call Duration Timer (Public Exchange Line)	10 (seconds)	1-131
FF1 1 01 0006 Hold (1-255) Hold	Call Duration Timer (Private Line)	10 (seconds)	1-131
FF1 1 01 0007 Hold (1-255) Hold	Outpulse Delay Timer (Public Exchange Line)	1 (second)	1-132
FF1 1 01 0008 Hold (1-255) Hold	Outpulse Delay Timer (Private Line/ Immediate-Start)	1 (second)	1-132

FF1 1 01 0009 Hold (1-255) Hold	Pre-Pause Timer (ISDN Exchange Line)	30 (seconds)	1-133
FF1 1 01 0010 Hold (1-255) Hold	Interdigit Timer (ARS and ISDN Exchange Line)	10 (seconds)	1-133
FF1 1 01 0011 Hold FF1 1 01 0012 Hold	Not Used	--	1-134
FF1 1 01 0013 Hold (1-255) Hold	Wink Wait Timer (AC-15 Private Lines)	5 (seconds)	1-134
FF1 1 01 0014 Hold (1-255) Hold	Start Timer for Public-Exchange Busy Tone Detect (Auto-Repeat Dial)	5 (seconds)	1-135
FF1 1 01 0015 Hold (1-255) Hold	Public-Exchange Busy Tone Detect Timer (Auto-Repeat Dial)	30 (seconds)	1-136
FF1 1 01 0016 Hold (1-255) Hold	DTMF ON: Pattern #1	16 (80ms)	1-136
FF1 1 01 0017 Hold (1-255) Hold	DTMF OFF: Pattern #1	16 (80ms)	1-137
FF1 1 01 0018 Hold (1-255) Hold	DTMF ON/OFF: Pattern #2	1 (125ms on/ 125ms off)	1-138
FF1 1 01 0019 Hold (1-255) Hold	DTMF ON/OFF: Pattern #3	2 (250ms on/ 250ms off)	1-139
FF1 1 02: Exchange Line Timer 2			**1-140**
FF1 1 02 0001 Hold (0-255) Hold	DISA No-Answer Timer #1	30 (seconds)	1-140
FF1 1 02 0002 Hold (0-255) Hold	Multiple Incoming No-Answer Timer #2	16 (seconds)	1-141
FF1 1 02 0003 Hold (0-255) Hold	Exchange-Line Delayed Ring Timer (Day1)	20 (seconds)	1-142
FF1 1 02 0004 Hold (0-255) Hold	Exchange-Line Delayed Ring Timer (Day2)	20 (seconds)	1-142
FF1 1 02 0005 Hold (0-255) Hold	Exchange-Line Delayed Ring Timer (Night)	20 (seconds)	1-143
FF1 1 02 0006 Hold (0-255) Hold	Exchange-Line Delayed Ring Timer (Busy)	120 (seconds)	1-144
FF1 1 02 0007 Hold (0-255) Hold	Slide Ring/Alarm Ring Timer (Day1)	20 (seconds)	1-145
FF1 1 02 0008 Hold (0-255) Hold	Slide Ring/Alarm Ring Timer (Day2)	20 (seconds)	1-146
FF1 1 02 0009 Hold (0-255) Hold	Slide Ring/Alarm Ring Timer (Night)	20 (seconds)	1-146
FF1 1 02 0010 Hold (0-255) Hold	Long Talk Alarm #1 Timer	180 (seconds)	1-147
FF1 1 02 0011 Hold (0-255) Hold	Long Talk Alarm #2 Timer	60 (seconds)	1-148
FF1 1 02 0012 Hold (0-255) Hold	Paging Timer (Private Line)	30 (seconds)	1-148
FF1 1 02 0013 Hold (0-255) Hold	Exch.Line-to-Exch.Line Connection Timer	60 (minutes)	1-149
FF1 1 02 0014 Hold (0-255) Hold	Queuing Timer (ARS)	15 (seconds)	1-149
FF1 1 02 0015 Hold (0-255) Hold	DDI Delayed Ring Timer	20 (seconds)	1-150
FF1 1 03: Extension Timer 1			**1-151**
FF1 1 03 0001 Hold (0-255) Hold	Call Forward/DND Confirmation Tone Timer	3 (seconds)	1-151
FF1 1 03 0002 Hold (0-255) Hold	Message-Waiting Tone Timer	3 (seconds)	1-151
FF1 1 03 0003 Hold (0-255) Hold	Pre-Pause Timer at Internal Dial Tone (DP SLTs)	30 (seconds)	1-152
FF1 1 03 0004 Hold (0-255) Hold	Pre-Pause Timer at Internal Dial Tone (DTMF SLTs)	15 (seconds)	1-153
FF1 1 03 0005 Hold (0-255) Hold	Pre-Pause Timer at Internal Dial Tone (Digital Keyphones)	0 (wait indefintly)	1-153
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FF2 2 BSSCC 05 4 Hold (0-4) Hold	Night Delayed Ring Type	0 (Disabled)	2-111
FF2 2 BSSCC 05 5 Hold (0-9999) Hold	Night Delayed Ring Destination	--	2-111
FF2 2 BSSCC 06 Hold (1-72) Hold	Tenant Group Assignment	--	2-112
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FF2 2: T1-E&M Tie Lines (future use)			**2-115**
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FF2 2 BSSCC 01 Hold (0-576) Hold	Trunk Number Assignment	--	2-116
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FF2 2 BSSCC 02 01 Hold thru FF2 2 BSSCC 02 03 Hold	Not Used	--	2-117
FF2 2 BSSCC 02 04 Hold (0 or 1) Hold	Ring Detect Timer	0 (48ms)	2-117
FF2 2 BSSCC 02 05 Hold (0 or 1) Hold	Auto Answer for Outbound Calls	0 (Disabled)	2-118
FF2 2 BSSCC 02 06 Hold (0 or 1) Hold	Frame Format	0 (SF)	2-118
FF2 2 BSSCC 02 07 Hold (0 or 1) Hold	Line Coding	0 (AMI)	2-119
FF2 2 BSSCC 02 08 Hold (0-6) Hold	Ring Frequency	1 (400/562Hz)	2-120
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FF2 2 BSSCC 02 10 Hold (0-2) Hold	DTMF On/Off Pattern During Talk	1 (Pattern #2)	2-122

FF2 2 BSSCC 02 11 Hold (0-2) Hold	DTMF On/Off Pattern for Outgoing Dialing	0 (Pattern #1)	2-122
FF2 2 BSSCC 02 12 Hold (0-3) Hold	Disconnect Supervision Timer	0 (160ms)	2-123
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FF2 2 BSSCC 02 15 Hold (0-3) Hold	Auto Answer Timer	0 (1 second)	2-124
FF2 2 BSSCC 03 00 Hold (0 or 1) Hold	DTMF/Dial Pulse Dialing	1 (DTMF)	2-124
FF2 2 BSSCC 03 01 Hold (0 or 1) Hold	Flash Pattern	0 (Pattern #1)	2-125
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FF2 2 BSSCC 03 03 Hold (0 or 1) Hold	Trunk Connection Type (CO/PBX)	0 (CO)	2-126
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FF2 2 BSSCC 03 05 Hold (0 or 1) Hold	DTMF After Answer (Link Control)	0 (Allowed)	2-126
FF2 2 BSSCC 03 06 Hold (0 or 1) Hold	CO Dial Tone Simulation	0 (Disabled)	2-127
FF2 2 BSSCC 03 07 Hold (0 or 1) Hold	SMDR for Outbound Calls	1 (Include)	2-127
FF2 2 BSSCC 03 08 Hold (0 or 1) Hold	SMDR for Inbound Calls	0 (Exclude)	2-128
FF2 2 BSSCC 03 09 Hold (0 or 1) Hold	Flash Key Operation	0 (flash to CO)	2-128
FF2 2 BSSCC 03 10 Hold thru FF2 2 BSSCC 03 12 Hold	Not Used	--	2-129
FF2 2 BSSCC 03 13 Hold (0 or 1) Hold	DTMF Conversion (Outbound Calls)	1 (Enabled)	2-129
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FF2 2 BSSCC 03 15 Hold (0 or 1) Hold	Indirect LCR	0 (Disabled)	2-130
FF2 2 BSSCC 03 16 Hold thru FF2 2 BSSCC 03 18 Hold	Not Used	--	2-131
FF2 2 BSSCC 04 0 Hold (0 or 1) Hold	Day1 Ring Type	0 (Tie incoming)	2-131
FF2 2 BSSCC 04 1 Hold	Not Used	--	2-132
FF2 2 BSSCC 04 2 Hold (0 or 1) Hold	Day2 Ring Type	0 (Tie incoming)	2-132
FF2 2 BSSCC 04 3 Hold	Not Used	--	2-131
FF2 2 BSSCC 04 4 Hold (0 or 1) Hold	Night Ring Type	0 (Tie incoming)	2-133
FF2 2 BSSCC 04 5 Hold	Not Used	--	2-133
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FF2 2 BSSCC 06 Hold (0-72) Hold	Tenant Group Assignment	0 (none)	2-134
FF2 2 BSSCC 07 0 Hold (1-50) Hold	TRS Class Assignment (Day)	1	2-135
FF2 2 BSSCC 07 1 Hold (1-50) Hold	TRS Class Assignment (Night)	1	2-135
FF2 2 BSSCC 08 Hold (1-16) Hold	Trunk COS Assignment	1	2-136
FF2 2 BSSCC 09 Hold (1-16) Hold	Trunk Digital Pad Class Assignment	7	2-136

Introduction

Defaults for FF3: EXTENSIONS

FF Key Address	Topic	Default (U.K.)	Page
FF3 0: Digital Keyphones and SLTs			**3-3**
FF3 0 BSSC 00 Hold (1-3) Hold	Phone Type	1 (dig.keyph/SLT)	3-3
FF3 0 BSSC 01 Hold (1-5) Hold	Phone Version (Digital Keyphones)	auto-detect	3-4
FF3 0 BSSC 02 Hold (0-9999) Hold	Extension Number Assignment	--	3-4
FF3 0 BSSC 03 0 Hold (0 or 1) Hold	SLT Hookflash	0 (Detect)	3-5
FF3 0 BSSC 03 1 Hold (0 or 1) Hold	SLT Dial Type	1 (DTMF)	3-6
FF3 0 BSSC 03 2 Hold (0-3) Hold	SLT On-Hook Detection Timer	0 (240ms detect; 160ms ignore)	3-6
FF3 0 BSSC 03 3 Hold (0-3) Hold	SLT Hookflash Timer	0 (80 to 176 ms)	3-7
FF3 0 BSSC 03 4 Hold	Not Used	--	3-7
FF3 0 BSSC 04 00 Hold (0 or 1) Hold	Auto Answer (Handset)	1 (Enabled)	3-8
FF3 0 BSSC 04 01 Hold (0 or 1) Hold	Ringing Line Preference (ON/OFF)	0 (Disabled)	3-8
FF3 0 BSSC 04 02 Hold (0 or 1) Hold	Slide Ringing Receive	0 (Disabled)	3-9
FF3 0 BSSC 04 03 Hold (0 or 1) Hold	Busy Override on Exchange-Line Key	0 (Disabled)	3-9
FF3 0 BSSC 04 04 Hold (0 or 1) Hold	Auto Camp-On Receive	0 (Disabled)	3-10
FF3 0 BSSC 04 05 Hold (0 or 1) Hold	Public Exchange Off-Hook Signal	1 (Enabled)	3-10
FF3 0 BSSC 04 06 Hold (0 or 1) Hold	SLT Voice Mail Connection	0 (Not a VM port)	3-11
FF3 0 BSSC 04 07 Hold (0 or 1) Hold	SLT Fixed Ring Pattern	0 (Different)	3-12
FF3 0 BSSC 04 08 Hold (0 or 1) Hold	End-to-End Signalling	1 (Enabled)	3-12
FF3 0 BSSC 04 09 Hold (0 or 1) Hold	Message Waiting LED	1 (Enabled)	3-13
FF3 0 BSSC 04 10 Hold (0 or 1) Hold	Data Security	0 (Allow interrupt)	3-13
FF3 0 BSSC 04 11 Hold (0 or 1) Hold	Large-LCD Fixed Menu Display During Idle	1 (Allowed)	3-14
FF3 0 BSSC 04 12 Hold (0 or 1) Hold	Exchange-Line Key Operation: Direct Calls	1 (Ignored)	3-14
FF3 0 BSSC 04 13 Hold (0 or 1) Hold	Exchange-Line Key Operation: HOLD	0 (Ignored)	3-15
FF3 0 BSSC 04 14 Hold (0 or 1) Hold	Exchange-Line Key Operation: Multiple Call Pickup	0 (Retrieve call)	3-15
FF3 0 BSSC 04 15 Hold (0 or 1) Hold	Exchange-Line Key Operation: Brokers Hold	0 (Disabled)	3-16
FF3 0 BSSC 04 16 Hold (0 or 1) Hold	System Mode Display	0 (Disabled)	3-17
FF3 0 BSSC 04 17 Hold (0 or 1) Hold	Flash on PROG (Recall)	1 (Send flash)	3-17
FF3 0 BSSC 04 18 Hold (0 or 1) Hold	Call Duration Display	0 (Enabled)	3-18
FF3 0 BSSC 04 19 Hold (0 or 1) Hold	Ring Volume Control	1 (Separate)	3-18
FF3 0 BSSC 04 20 Hold (0 or 1) Hold	Loop (AEC) Disconnect Signal for VM	0 (No signal)	3-19
FF3 0 BSSC 04 21 Hold (0 or 1) Hold	Flash Signal Control	0 (Send flash)	3-19
FF3 0 BSSC 04 22 Hold (0 or 1) Hold	Variable Mode Release	0 (Release)	3-20
FF3 0 BSSC 04 23 Hold (0 or 1) Hold	MCO Prime Line	0 (Disabled)	3-21
FF3 0 BSSC 04 24 Hold (0 or 1) Hold	Forced Account Codes	0 (Not Forced)	3-21
FF3 0 BSSC 04 25 Hold (0 or 1) Hold	Verified Account Codes	0 (Unverified)	3-22
FF3 0 BSSC 04 26 Hold	Not Used	-	3-23
FF3 0 BSSC 04 27 Hold (0 or 1) Hold	Hot Dial Pad	1 (Enabled)	3-23
FF3 0 BSSC 05 Hold (1-72) Hold	Tenant Group Assignment	1	3-24
FF3 0 BSSC 06 0 Hold (1-50) Hold	TRS Class Assignment (Day)	1	3-25
FF3 0 BSSC 06 1 Hold (1-50) Hold	TRS Class Assignment (Night)	1	3-25
FF3 0 BSSC 07 Hold (1-16) Hold	Extension COS Assignment	1	3-26
FF3 0 BSSC 08 Hold (1-8) Hold	Extension Digital Pad Class Assignment	1 (Analog) 3 (Digital)	3-26
FF3 0 BSSC 09 Hold (1 or 2) Hold	Dial Plan Assignment	1 (Plan “A”)	3-27

FF3 1: S-Point ISDN Extensions			**3-28**
FF3 1 BSS1 00 0 Hold (BSSC) Hold	Common D-Channel Position	--	3-28
FF3 1 BSS1 00 1 Hold (1-127) Hold	D-Channel Interface ID Code	--	3-29
FF3 1 BSSC 01 Hold (0-9999) Hold	Extension Number Assignment	--	3-29
FF3 1 BSSC 02 00 Hold (0 or 1) Hold	Connection Type	0 (Point-to-Point)	3-30
FF3 1 BSSC 02 01 Hold (0 or 1) Hold	Passive Bus	0 (Short Loop)	3-30
FF3 1 BSSC 02 02 Hold (0 or 1) Hold	Layer 1 Operate Mode	0 (Active)	3-31
FF3 1 BSSC 02 03 Hold	Not Used	--	3-31
FF3 1 BSSC 03 00 Hold (0 or 1) Hold	B-Channel Select	0 (Highest-No.'d)	3-32
FF3 1 BSSC 03 01 Hold (0 or 1) Hold	B-Channel Numbering (Layer 3)	1 (Channel No.'g)	3-32
FF3 1 BSSC 03 02 Hold (0 or 1) Hold	Call ID Length	0 (1byte/BRI) 1 (2byte/PRI)	3-33
FF3 1 BSSC 03 03 Hold (0 or 1) Hold	Called Number Indication	0 (no indication)	3-34
FF3 1 BSSC 03 04 Hold (0 or 1) Hold	Called Sub-Address Indication	0 (no indication)	3-34
FF3 1 BSSC 03 05 Hold	Not Used	--	3-35
FF3 1 BSSC 03 06 Hold (0 or 1) Hold	Progress Tone	1 (Send)	3-35
FF3 1 BSSC 03 07 Hold (0 or 1) Hold	Data Security	0 (Off)	3-35
FF3 1 BSSC 03 08 Hold	Not Used		3-36
FF3 1 BSSC 04 Hold (1-72) Hold	Tenant Group Assignment	1	3-36
FF3 1 BSSC 05 0 Hold (1-50) Hold	TRS Class Assignment (Day)	1	3-37
FF3 1 BSSC 05 1 Hold (1-50) Hold	TRS Class Assignment (Night)	1	3-37
FF3 1 BSSC 06 Hold (1-16) Hold	Extension COS Assignment	1	3-38
FF3 1 BSSC 07 0 Hold (1-8) Hold	Extension Digital Pad Class Assignment	5	3-38
FF3 1 BSSC 08 Hold (1 or 2) Hold	Dial Plan Assignment	1 (Plan "A")	3-39
FF3 2: Virtual Ports			**3-40**
FF3 2 (001-576) 00 Hold (0-9999) Hold	Extension Number Assignment	--	3-40
FF3 2 (001-576) 01 00 Hold (1-6) Hold	Ring Frequency	1 (400/562Hz)	3-41
FF3 2 (001-576) 01 01 Hold (1-12) Hold	Ring Pattern	1 (1on/2off)	3-42
FF3 2 (001-576) 02 Hold (1-72) Hold	Tenant Group Assignment	1	3-43
FF3 2 (001-576) 03 Hold (1-16) Hold	Extension COS Assignment	1	3-44
FF3 3: RAI Extension Port			**3-45**
FF3 3 00 Hold (0-9999) Hold	RAI Extension Number Assignment	699	3-45
FF3 3 01 Hold (1-72) Hold	Tenant Group Assignment	1	3-45
FF3 3 02 Hold (1-16) Hold	Extension COS Assignment	1	3-46

Introduction

Defaults for FF4: FF-KEY/SOFT KEY FEATURE ASSIGNMENTS

FF Key Address	Topic	Default (all)	Page
FF4 0: FF-Keys on Digital Keyphones, SLTs, and EM/24 Units			**4-7**
FF4 0 BSSC 0 (01-32) Hold FL/R (Code) Hold	FF-Key Feature Assignment (Digital Keyphones, SLTs, EM/24s)	--	4-7
FF4 0 BSSC 1 (01-32) Hold CONF (0 or 1) Hold	Exchange-Line FF-Key: Outbound Call Restriction	0 (Allowed)	4-10
FF4 0 BSSC 1 (01-32) Hold CONF Hold (0 or 1) Hold	Exchange-Line FF-Key: Inbound Answer Restriction	0 (Allowed)	4-11
FF4 0 BSSC 1 (01-32) Hold CONF Holdx2 (0 or 1) Hold	Exchange-Line FF-Key: Day1 Ringing	0 (No ring)	4-11
FF4 0 BSSC 1 (01-32) Hold CONF Holdx3 (0 or 1) Hold	Exchange-Line FF-Key: Day2 Ringing	0 (No ring)	4-12
FF4 0 BSSC 1 (01-32) Hold CONF Holdx4 (0 or 1) Hold	Exchange-Line FF-Key: Night Ringing	0 (No ring)	4-12
FF4 0 BSSC 1 (01-32) Hold CONF Holdx5 (0 or 1) Hold	Exchange-Line FF-Key: No-Ring Auto Answer	0 (Disabled)	4-13
FF4 1: FF-Keys on DSS/72 Consoles			**4-14**
FF4 1 BSSC 0 (01-72) Hold FL/R (Code) Hold	FF-Key Feature Assignment (DSS/72)	--	4-14
FF4 1 BSSC 1 (01-72) Hold CONF (0 or 1) Hold	DSS Exch.Line FF-Key: Outbound Call Restrictionn	0 (Allowed)	4-15
FF4 1 BSSC 1 (01-72) Hold CONF Hold (0 or 1) Hold	DSS Exch.Line FF-Key: Inbound Answer Restriction	0 (Allowed)	4-16
FF4 1 BSSC 1 (01-72) Hold CONF Holdx2 (0 or 1) Hold	DSS Exch.Line FF-Key: Day1 Ringing	0 (No ring)	4-16
FF4 1 BSSC 1 (01-72) Hold CONF Holdx3 (0 or 1) Hold	DSS Exch.Line FF-Key: Day2 Ringing	0 (No ring)	4-17
FF4 1 BSSC 1 (01-72) Hold CONF Holdx4 (0 or 1) Hold	DSS Exch.Line FF-Key: Night Ringing	0 (No ring)	4-17
FF4 1 BSSC 1 (01-72) Hold CONF Holdx5 (0 or 1) Hold	DSS Exch.Line FF-Key: No-Ring Auto Answer	0 (Disabled)	4-18
FF4 2: Soft Keys on Display Phones			**4-19**
FF4 2 BSSC 0 (01-30) Hold (Code) Hold	Soft Key Feature Assignment	--	4-19

Defaults for FF5: GROUPS

FF Key Address	Topic	Default (all)	Page
FF5 0: Attendant Hunt Group			**5-3**
FF5 0 01 Hold (0-9999) Hold	Attendant HG: Pilot Number	0	5-3
FF5 0 02 01 Hold (0-2) Hold	Attendant HG: Day1 Hunt Mode	1 (Pilot terminal)	5-3
FF5 0 02 (02-21) Hold (0-9999) Hold	Attendant HG: Day1 Members	--	5-4
FF5 0 02 22 Hold (0-255) Hold	Attendant HG: Day1 Delayed (No Answer) Hunt Timer	0 (stay@idle Ext)	5-5
FF5 0 02 23 Hold (0-255) Hold	Attendant HG: Day1 Queuing Timer	0 (stay in HG)	5-5
FF5 0 02 24 Hold (0-9999) Hold	Attendant HG: Day1 Next Extension/Hunt Group	--	5-6
FF5 0 03 01 Hold (1 or 2) Hold	Attendant HG: Day2 Hunt Mode	1 (Pilot terminal)	5-6
FF5 0 03 (02-21) Hold (0-9999) Hold	Attendant HG: Day2 Members	--	5-7
FF5 0 03 22 Hold (0-255) Hold	Attendant HG: Day2 Delayed (No Answer) Hunt Timer	0 (stay@idle Ext)	5-8
FF5 0 03 23 Hold (0-255) Hold	Attendant HG: Day2 Queuing Timer	0 (Stay in HG)	5-8
FF5 0 03 24 Hold (0-9999) Hold	Attendant HG: Day2 Next Extension/Hunt Group	--	5-9
FF5 0 04 01 Hold (1 or 2) Hold	Attendant HG: Night Hunt Mode	1 (Pilot terminal)	5-9
FF5 0 04 (02-21) Hold (0-9999) Hold	Attendant HG: Night Members	--	5-10
FF5 0 04 22 Hold (0-255) Hold	Attendant HG: Night Delayed (No Answer) Hunt Timer	0 (stay@idle Ext)	5-11
FF5 0 04 23 Hold (0-255) Hold	Attendant HG: Night Queuing Timer	0 (Stay in HG)	5-11
FF5 0 04 24 Hold (0-9999) Hold	Attendant HG: Night Next Extension/Hunt Group	--	5-12
FF5 1: Extension Hunt Groups			**5-13**
FF5 1 (01-72) 01 Hold (0-4) Hold	Extension HG: Hunt Mode	1 (Terminal)	5-13
FF5 1 (01-72) 02 Hold (0-9999) Hold	Extension HG: Pilot Number	--	5-14
FF5 1 (01-72) (03-22) Hold FL/R (0-9999) Hold	Extension HG: Members	--	5-15
FF5 1 (01-72) 23 Hold (0-255) Hold	Extension HG: Delayed (No Answer) Hunt Timer	16 (seconds)	5-16
FF5 1 (01-72) 24 Hold (0-255) Hold	Extension HG: Queuing Timer	0 (Stay in HG)	5-17
FF5 1 (01-72) 25 Hold (0-9999) Hold	Extension HG: Next Extension/Hunt Group	--	5-18
FF5 2: MCO Outbound Exchange-Line Groups			**5-19**
FF5 2 (01-99) 001 Hold (0 or 1) Hold	MCO Outbound Search Mode	0 (Reverse ordr)	5-19
FF5 2 (01-99) (002-577) Hold (1-576) Hold	MCO Outbound Exchange-Line Group Members	--	5-20
FF5 3: MCO Inbound Exchange-Line Groups			**5-21**
FF5 3 (01-99) (001-576) Hold (1-576) Hold	MCO Inbound Exchange-Line Group Members	--	5-21
FF5 4: Paging Groups			**5-22**
FF5 4 (01-10) 01 Hold (BSSC) Hold	External Page Port	* (use SCC port)	5-22
FF5 4 (01-10) (02-73) Hold (0-9999) Hold	Paging Group Members	--	5-23
FF5 5: Hot Line Group			**5-24**
FF5 5 (01-20) 01 Hold (0-9999) Hold	Hot Line Extension	--	5-24
FF5 5 (01-20) 02 Hold (0 or 1) Hold	Hot Line Mode	0 (Extension)	5-24
FF5 5 (01-20) 03 Hold (1-9999 or 000-799) Hold	Hot Line Destination	--	5-25
FF5 6: Call Pickup Groups			**5-26**
FF5 6 (01-72) (01-20) Hold (1-9999) Hold	Call Pickup Group Members	--	5-26

Introduction

Defaults for FF6: TRS(CALL BARRING)/ARS

FF-key Address	Topic	Default (U.K.)	Page
FF6 0: TRS/ARS Common			**6-5**
FF6 0 00: Leading Digits Table			**6-5**
FF6 0 00 (001-100) 0001 Hold (up to 10 digits) Hold	Leading Digits Table: Prefix String	--	6-6
FF6 0 00 (001-100) 0002 Hold (0-99) Hold	Leading Digits Table: Prefix ID	0 (not linked to Anlys.Dig.)	6-7
FF6 0 00 (001-100) 0003 Hold (0-16) Hold	Leading Digits Table: Follow Digit Maximum	0 (no limit)	6-7
FF6 0 00 (001-100) 0004 Hold (0-8) Hold	Leading Digits Table: TRS Level	0	6-8
FF6 0 00 (001-100) 0005 Hold (0-2) Hold	Leading Digits Table: Route Type	0 (use Route)	6-9
FF6 0 00 (001-100) 0006 Hold (1-200/100/50) Hold	Leading Digits Table: Route Number	0 (no routing)	6-10
FF6 0 01: Analyse Digits Table			**6-11**
FF6 0 01 (001-500) 0001 Hold (0-99) Hold	Analyse Digits Table: Prefix ID	0 (none)	6-11
FF6 0 01 (001-500) 0002 Hold (up to 8 digits) Hold	Analyse Digits Table: Digit String	-- (none)	6-12
FF6 0 01 (001-500) 0003 Hold (0-16) Hold	Analyse Digits Table: Follow Digit Maximum	0 (no limit)	6-13
FF6 0 01 (001-500) 0004 Hold (0-8) Hold	Analyse Digits Table: TRS Level	0	6-13
FF6 0 01 (001-500) 0005 Hold (0-2) Hold	Analyse Digits Table: Route Type	0 (use Route)	6-14
FF6 0 01 (001-500) 0006 Hold (0-200/100/50) Hold	Analyse Digits Table: Route Number	0 (no routing)	6-15
FF6 1: TRS Class Definitions			**6-16**
FF6 1 00: TRS Class: Path Settings (non-ARS)			**6-16**
FF6 1 00 (01-50) Hold (0001-0099) Hold (0-9) Hold	TRS Level for Path (non-ARS)	9 (allow all calls)	6-17
FF6 1 01: TRS Class: Originator Settings (TRS/ARS)			**6-19**
FF6 1 01 (01-50) 0001 Hold (0-9) Hold	TRS Level for Originator (TRS/ARS)	9 (allow all calls)	6-19
FF6 1 01 (01-50) 0002 Hold (0-9) Hold	ARS Level for Originator (Route List)	9	6-20
FF6 1 01 (01-50) 0003 Hold (0 or 1) Hold	Exchange-Line Queuing for Originator (Route List)	1 (Queuing)	6-21
FF6 1 02: TRS Class: Dialling Restrictions			**6-22**
FF6 1 02 (01-50) 0001 Hold (0-20) Hold	Outbound Dialled-Digit Maximum	0 (no limit)	6-23
FF6 1 02 (01-50) 0002 Hold (0 or 1) Hold	Dialling Restriction During Inbound Calls	0 (no restr.)	6-24
FF6 1 02 (01-50) 0003 Hold (0 or 1) Hold	TRS Override on SSD Dialling	0 (not allowd)	6-25
FF6 1 02 (01-50) 0004 Hold (0 or 1) Hold	Star (*) and Pound (#) Dialling Restriction	0 (allowed)	6-25
FF6 1 03: TRS Class: SSD Range			**6-26**
FF6 1 03 0001 Hold (000-799) Hold	Allowed SSD Range	0 (no TRS)	6-26
FF6 2: ARS Settings			**6-27**
FF6 2 00 thru 02: Time List Tables			**6-27**
FF6 2 00 (0001-0007) Hold (1-4) Hold	Day of the Week for Time List Table	1	6-27
FF6 2 01 (0001-0040) Hold (MMDD or 1-4) Hold	Day of the Year for Time List Table	0000 and 1	6-28
FF6 2 02 (0-3) (01-50) (0001-0010) Hold (0000-2359 or 0-100) Hold	Time List Tables	0000 and 0	6-29
FF6 2 03: Route List Table			**6-30**
FF6 2 03 (001-100) 0001 Hold (0-200) Hold	Route List Table: 1st Priority Route No.	0 (none)	6-30
FF6 2 03 (001-100) 0002 Hold (0-9) Hold	Route List Table: 1st Priority ARS Level	0	6-31

Introduction

Defaults for FF7: APPLICATIONS

FF Key Address	Topic	Default (all)	Page
FF7 0: Built-In Voice Mail			**7-3**
FF7 0 (BSS) 00 Hold (0-4) Hold	VM Unit Number	0 (none)	7-3
FF7 0 (BSS) 01 (01-16) 00 Hold (0-9999) Hold	VPU Port Extension Numbers	--	7-4
FF7 0 (BSS) 01 (01-16) 01 Hold (1-72) Hold	VPU Port Tenant Group Assignment	1	7-5
FF7 0 (BSS) 01 (01-16) 02 (0 and 1) Hold (1-50) Hold	VPU Port TRS Class Assignment (Day/ Night)	1	7-6
FF7 0 (BSS) 01 (01-16) 03 Hold (1-8) Hold	VPU Port Digital Pad Class Assignment	6	7-7
FF7 0 (BSS) 02 01 (0001-0016) Hold (0-6 or 00-12) Hold	Built-In VM: Service Range Assignment	0/00 (none)	7-8
FF7 0 (BSS) 03 Hold CONF...	Built-In VM: Detail Settings	--	7-9
FF7 1: Built-In ACD			**7-10**
FF7 1 (BSS) 00 Hold (0-2) Hold	ACD Unit Number	0 (none)	7-10
FF7 1 (BSS) 01 (01-24) 00 Hold (0-9999) Hold	ACD Port Extension Numbers	--	7-11
FF7 1 (BSS) 01 (01-24) 01 Hold (1-72) Hold	ACD Port Tenant Group Assignment	1	7-12
FF7 1 (BSS) 01 (01-24) 02 (0 and 1) Hold (1-50) Hold	ACD Port TRS Class Assignment (Day/ Night)	1	7-12
FF7 1 (BSS) 01 (01-24) 03 Hold (1-8) Hold	ACD Port Digital Pad Class Assignment	6	7-13
FF7 1 (BSS) 02 01 (0001-0016) Hold (0-6 or 0-12) Hold	Built-In ACD: Service Range Assignment	0/00 (none)	7-14
FF7 1 (BSS) 03 Hold CONF...	Built-In ACD: Detail Setting	--	7-15
FF7 2: API			**7-16**
FF7 2 (BSS) 00 Hold (0-6) Hold	API Unit Number	0 (none)	7-16
FF7 2 (BSS) 01 (01-08) 00 Hold (0-9999) Hold	API Port Extension Numbers	--	7-17
FF7 2 (BSS) 01 (01-08) 01 Hold (1-72) Hold	API Port Tenant Group Assignment	1	7-18
FF7 2 (BSS) 01 (01-08) 02 (0 and 1) Hold (1-50) Hold	API Port TRS Class Assignment (Day/ Night)	1	7-18
FF7 2 (BSS) 01 (01-08) 03 Hold (1-8) Hold	API Port Digital Pad Class Assignment	3 (DEC card) 1 (AEC card)	7-19
FF7 2 (BSS) 02 01 0001 Hold (0-7) Hold	API: Data Format via RS-232C	6 (8bits/Even/ 1 stop bit)	7-19
FF7 2 (BSS) 02 01 0002 Hold (0-6) Hold	API: Baud Rate	5 (9600 bps)	7-20
FF7 2 (BSS) 02 02 (0001-0016) Hold (0-6 or 00-11) Hold	API: Service Range Assignment	0/00 (none)	7-21

Defaults for FF8: MAINTENANCE

FF-key Address	Topic	Default (all)	Page
FF8 0: Dealer Maintenance			**8-4**
FF8 0 00: Large-LCD FUNCTION SYSTEM Assignments			**8-4**
FF8 0 00 0 (01-50) Hold (Code) Hold	Large-LCD FUNCTION SYSTEM Assignment at Idle/Dial Tone	See pg. 8-9	8-9
FF8 0 00 1 (01-10) Hold (Code) Hold	Large-LCD FUNCTION SYSTEM Assignment at Ringback Tone	See pg. 8-11	8-11
FF8 0 00 2 (01-10) Hold (Code) Hold	Large-LCD FUNCTION SYSTEM Assignment at Busy Tone	See pg. 8-12	8-12
FF8 0 00 3 (01-10) Hold (Code) Hold	Large-LCD FUNCTION SYSTEM Assignment during Talk	See pg. 8-13	8-13
FF8 0 01: Traffic Control			**8-14**
FF8 0 01 0 00 Hold CONF (0 or 1) Hold	Traffic Control Start/Stop Memory	0 (Stop)	8-14
FF8 0 01 0 00 Hold CONF Hold (0 or 1) Hold	Traffic Control Start/Stop Print	0 (Stop)	8-14
FF8 0 01 0 00 Hold CONF (Holdx2) thru (Holdx5)	Not Used	--	8-15
FF8 0 01 0 (01-48) Hold (0-16) Hold	Traffic Control Timing Storage	0 (Not stored)	8-15
FF8 0 01 1 Hold (0 or 1) Hold	Exchange Line Call Traffic (Outbound Calls)	--	8-17
FF8 0 01 2 Hold (0 or 1) Hold	Exchange Line Call Traffic (Inbound Calls)	--	8-18
FF8 0 01 3 Hold (0 or 1) Hold	Intercom Call Traffic	--	8-18
FF8 0 02: Exchange Line Names			**8-19**
FF8 0 02 Hold Hold (1-576) Hold FL/R (up to 10 char.) Hold	Exchange Line Name Assignment	--	8-19
FF8 0 03: Alarms			**8-21**
FF8 0 03 Hold Hold Hold 1 Hold	Confirm Major Alarm		8-21
FF8 0 03 Hold Hold Hold 2 Hold	Confirm Minor Alarm		8-21
FF8 0 03 Hold Hold Hold 3 Hold	Confirm AL Alarms		8-22
FF8 0 03 1 Hold OT-1 OT-1 Hold Hold 1 Hold	Dump All Trouble Records		8-22
FF8 0 04: Card Settings			**8-23**
FF8 0 04 0 BSS Hold (0 or 1) (FL/R + Hold)	Card Reset	--	8-23
FF8 0 04 1 BSS 00 Hold [01-99 displays]	Card Type Verification	See pg. 8-24	8-23
FF8 0 04 1 BSS 01 Hold [Version No. displays]	Card Version Verification	--	8-24
FF8 0 05: Line Control			**8-25**
FF8 0 05 0 BSSCC Hold (0 or 1) Hold	Line Lockout	--	8-25
FF8 0 05 1 BSSC Hold (0 or 1) Hold	ISDN/T1 Error Information Control	--	8-25
FF8 0 05 2 BSSC 00 Hold (digits)	Signal Loss Alarm Counter	0000	8-26
FF8 0 05 2 BSSC 01 Hold (digits)	OOF Alarm Counter	0000	8-26
FF8 0 05 2 BSSC 02 Hold (digits)	Sync Loss Alarm Counter	0000	8-27
FF8 0 05 2 BSSC 03 Hold (digits)	Yellow Alarm Counter	0000	8-27
FF8 0 05 2 BSSC 04 Hold (digits)	AIS Alarm Counter	0000	8-28
FF8 0 05 2 BSSC 05 Hold (digits)	Slip Alarm Counter	0000	8-28
FF8 0 05 2 BSSC 06 Hold (digits)	CRC Alarm Counter	0000	8-29
FF8 0 05 2 BSSC 07 Hold (digits)	BPV Alarm Counter	0000	8-29
FF8 0 05 2 BSSC 08 Hold (digits)	Layer 1 Status Error Counter (ISDN)	00	8-30
FF8 0 05 2 BSSC 09 Hold (digits)	Layer 1 Receive Error Counter (ISDN)	000000	8-30
FF8 0 05 2 BSSC 10 Hold (digits)	Layer 1 Transmit Error Counter (ISDN)	000000	8-31

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FF8 0 05 2 BSSC (11-90) Hold (digits)	TEI Layer 2 Error Counter (ISDN)	000000	8-31
FF8 0 05 3 BSS(C) Hold (0 or 1) Hold	T1 Loopback 1 Diagnostics	0 (Stop)	8-34
FF8 0 05 4 BSS(C) Hold 1 Hold	T1 Loopback 2 Diagnostics	1 (Start)	8-34
FF8 0 06: ISDN Channel Control			**8-35**
FF8 0 06 BSSC (0-3) Hold CONF... (0 or 1) Hold	ISDN Channel Control	0 (Lockout)	8-35
FF8 0 07: Bus Monitor (for factory use)			**8-37**
FF8 0 07 0 00 Hold (0 or 1) Hold	Bus Monitor Save Control	0 (stop/no save)	8-37
FF8 0 07 0 (01-15) Hold (code) Hold	Trigger Codes	See pg. 8-38	8-37
FF8 0 08: Table Dump			**8-39**
FF8 0 08 Hold Hold (vvvv-dddd-iiii) Hold	Table Dump	--	8-39
FF8 0 09: Memory Dump			**8-40**
FF8 0 09 Hold Hold (aaaaaaaa) Hold	Memory Dump	--	8-40
FF8 0 10: DDI/CLI Names			**8-41**
FF8 0 10 Hold Hold (001-576) Hold (up to 10 char.) Hold	DDI/CLI Names (“A” Side only)	--	8-41
FF8 1: User Maintenance			**8-42**
FF8 1 00: System Clock			**8-42**
FF8 1 00 0 Hold (YYMMDD) Hold	System Date	970101 (after initialization)	8-42
FF8 1 00 1 Hold (HHMM) Hold	System Time	00:00 (after initialization)	8-42
FF8 1 00 2 Hold (1-7) Hold	System Day of Week	3 (Wed)	8-43
FF8 1 01: Personal Speed Dial (PSD)			**8-44**
FF8 1 01 Hold 0 Hold Hold (0-9999) Hold (PSD) Hold FL/R (up to 24 char.) Hold	PSD Numbers	--	8-44
FF8 1 01 Hold 1 Hold Hold (0-9999) Hold (80-99) Hold FL/R (up to 7 char.) Hold	PSD Names	--	8-45
FF8 1 02: System Speed Dial (SSD)			**8-46**
FF8 1 02 Hold 0 Hold Hold (00/0-79/9) Hold FL/R (up to 24 char.) Hold	SSD Numbers	--	8-46
FF8 1 02 Hold 1 Hold Hold (00/0-79/9) Hold FL/R (up to 16 char.) Hold	SSD Names	--	8-47
FF8 1 02 Hold 2 Hold Hold (1 or 2) Hold FL/R (up to 4 char.) Hold	SSD Index	--	8-48
FF8 1 03: Extension Names			**8-49**
FF8 1 03 Hold 0 Hold Hold (0-9999) Hold FL/R (up to 10 char.) Hold	Extension Name Assignment	--	8-49
FF8 1 03 Hold 1 Hold Hold (1 or 2) Hold FL/R (up to 4 char.) Hold	Extension Index	--	8-49
FF8 1 04 thru 06: ID Codes			**8-50**
FF8 1 04 Hold Hold (001-500) 0001 Hold FL/R (up to 10 digits) Hold	Verified Account Codes	--	8-50
FF8 1 04 Hold Hold (001-500) 0002 Hold (1-50) Hold	TRS Class for Verified Account Codes	--	8-50
FF8 1 05 Hold Hold (0-9999) Hold FL/R (up to 16 char.) Hold	Call-Forward ID Codes for Voice Mail	--	8-51
FF8 1 06 Hold Hold (0-9999) Hold FL/R (up to 16 char.) Hold	MSG Key ID Codes	--	8-52

0. System Configuration

Use the addresses in this chapter to set System Configuration parameters for the ICX. These addresses must be set immediately after initialising the system for the first time (see **Introduction** for more information).

IMPORTANT: If you don't assign the card type, you can't continue programming. When you install the card, you must assign the configuration first.

This chapter covers the following addresses:

General Notes

CCU Configuration

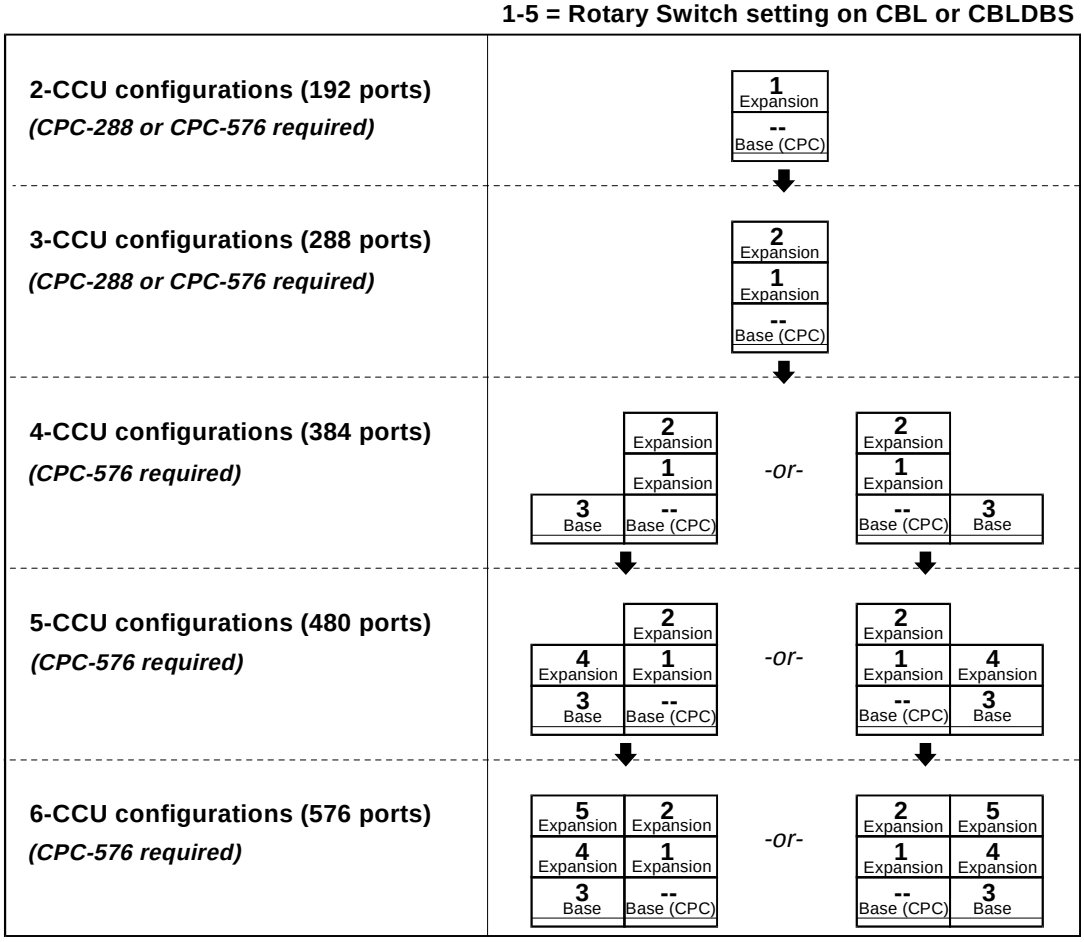
A phone system can consist of multiple CCUs. There are two types of CCUs: base (up to 2) and expansion (up to 2 per base CCU, for a total of 4). The base CCU contains the power switch that controls the expansion CCU(s) above it, as well as itself.

One of the base CCUs will act as the control CCU for the system, by holding the CPC card, TSW card, SCC card, and other common control cards. (See *Section 300-Installation* for more information.)

The rotary switch on the CBL or CBLDBS card (which is installed in the CPC slot of all additional CCUs) becomes important whenever you expand to a multiple-CCU phone system. The rotary switch setting, 1-5, numbers the additional CCU(s). (The base CCU isn't numbered.) See figure below.

IMPORTANT! ***Up to 2 DBS-96 CCUs can be included in the phone system as expansion CCUs. But they must be configured as the 2nd and 3rd CCUs in the system (with their CBLDBS rotary switches set to "1" and "2" respectively). See Section 300-Installation for more information.***

Figure 0-1: CCU Building-Block Configurations



Before Removing an Exchange Line/Extension Card from a Free Slot

First, clear the Exchange Line Numbers or Extension Numbers assigned to the ports on the card in programming. This is for system "housecleaning" purposes, so the numbers can be automatically removed from other areas in programming such as Hunt Groups, etc.

Addresses for Exchange Line Cards:

for analog exchange lines: LTRK/8 *(all)*, LGTRK8 *(USA)*, DIDTR8 *(USA and Hong Kong)*	**Exchange-Line Number Assignment (pg. 2-7)** **FF2 0 BSSC 00 Hold (0-576) Hold**
for E&M or AC-15 private lines: AC15/4 *(U.K.)* E&M/4 *(USA and Hong Kong)*	**Private-Line Number Assignment (pg. 2-38)** **FF2 0 BSSC 00 Hold (0-576) Hold**
for ISDN exchange lines: (TBRI/4, PRI/8, PRI/16, PRI/24, PRI/30)	**Exchange-Line Number Assignment (1st Channel) (pg. 2-61)** **FF2 1 BSSC 01 Hold (0-576) Hold**
for T1-CO lines: *(USA only)* (T1/8, T1/16, T1/24)	**Trunk Number Assignment (pg. 2-87)** **FF2 2 BSSCC 01 Hold (0-576) Hold**
for T1 E&M tie lines: *(USA only)* (T1/8, T1/16, T1/24)	**Trunk Number Assignment (pg. 2-116)** **FF2 2 BSSCC 01 Hold (0-576) Hold**

Addresses for Extension Cards:

for digital or SLT phones: (DEC/8, AEC/8)	**Extension Number Assignment (pg. 3-4)** **FF3 0 BSSC 02 Hold (0-9999) Hold**
for ISDN extensions: (SBRI/4, PRI/8, PRI/24 or 30)	**Extension Number Assignment (pg. 3-29)** **FF3 1 BSSC 01 Hold (0-9999) Hold**

Using the LS/GS Card for Ground-Start *(USA only)*

In order to use the Loop-Start/Ground-Start Exchange Line Card (LGTRK8) for ground-start signalling:

- ❒ A pair of jumpers for each circuit must be installed on the card.
- ❒ A -48V power supply must be installed in the CCU.
- ❒ Ground lead on power supply must be installed properly ("SG" connected to Ground screw).

See *Section 300-Installation* for more information.

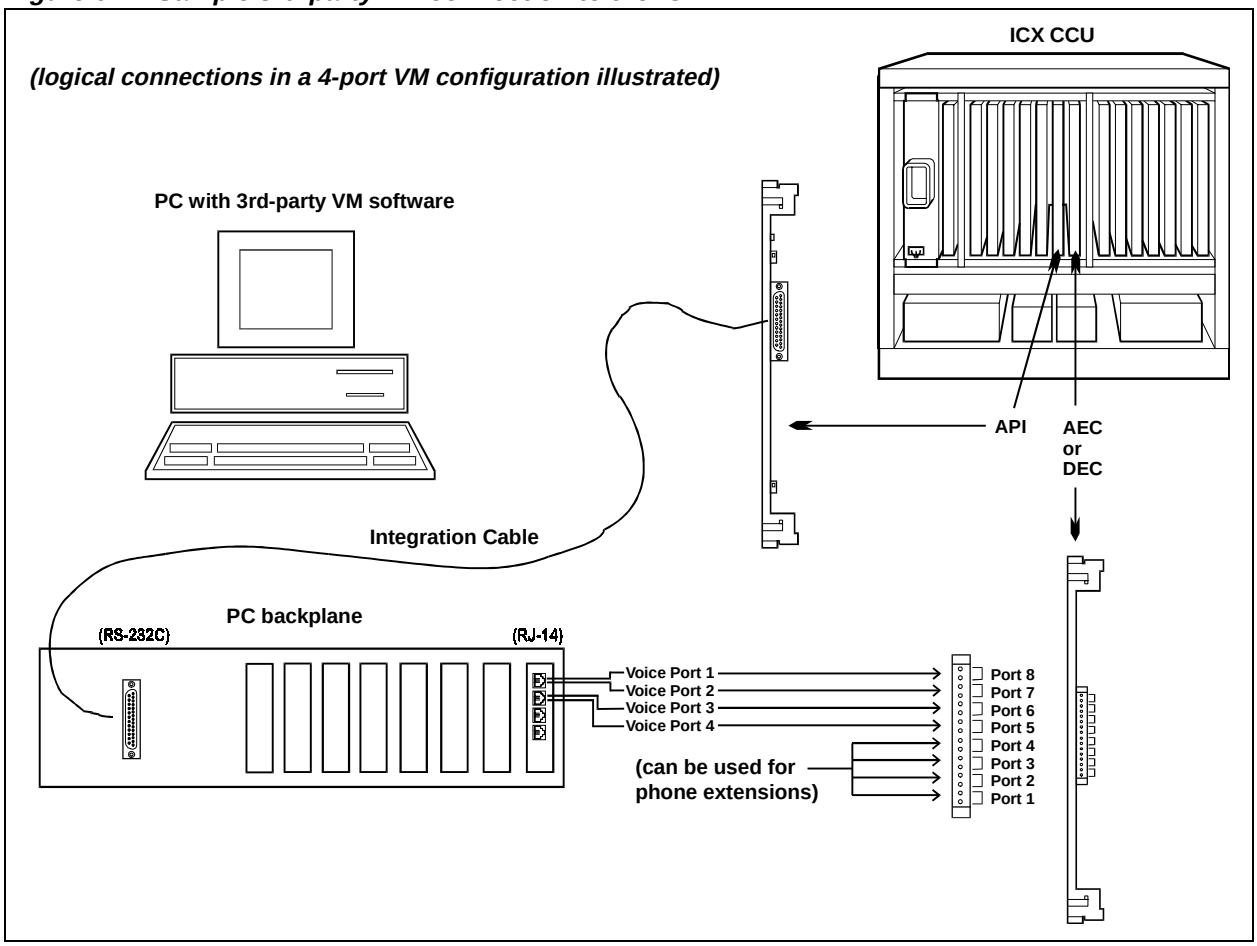
Installing the API Card for 3rd-party Voice Mail *(USA only)*

The API Card is required for 3rd-party Voice Mail systems. When configuring the Free Slot for the API Card, use Card Type address numbers 80-87 (see table, pg. 0-8).

- ❒ Not more than one API Card can be installed per CCU.
- ❒ The API Card can be installed in any Free Slot between 01 and 11.
- ❒ A DEC or AEC Card, which can provide up to 8 voice ports, must also be installed in the Free Slot immediately after (to the right of) the API Card.
- ❒ If the API Card doesn't use all 8 ports on the DEC or AEC for voice mail, the remaining ports can be used for normal extensions.

The API Card will always choose Port #8 (last port) on the DEC or AEC as the 1st voice port. The 2nd voice port is always Port #7 on the DEC/AEC; the 3rd voice port #6; etc. See illustration (next page).

Figure 0-2: Sample 3rd-party VM connection to the ICX



IMPORTANT: If the Free Slot to the right of the API Card is already occupied when you install the API Card, you must reprogram the installed card. Otherwise the system will not let you program the API Card. Perform the following:

1) If the Free Slot contains an Exchange Line or Extension Card, go into programming and clear all exchange line or extension numbers assigned to the ports on the card. (This is for system "housecleaning" purposes, so the number can be automatically removed from Hunt Groups, etc.)

2) Remove the card from the Free Slot.

3) In programming, erase the card assignment from the Free Slot (press the FL/R key in the "01" address on pg. 0-6).

4) Install the API Card.

5) Install the DEC or AEC Card into the Free Slot immediately after (to the right of) the API Card.

6) In programming, assign the card type for the API Card's Free Slot (settings 80-87 in the "01" address, pg. 0-6). ***Do Not Configure The Free Slot for the DEC/AEC.*** The API Card's Free Slot assignment will automatically configure the DEC/AEC Free Slot (the program will skip over the DEC or AEC Card's Free Slot number after you assign the API Card).

7) In programming, set the API Port addresses in FF7 - 2, and configure the audio-path ports of the DEC/AEC in FF3 - 0.

0: System Configuration Addresses

System Size

00 :1
System Size

(all CPCs) - Version 2.0 or higher

Enter the number of CCUs installed in the phone system configuration.

00 Hold (1-6) Hold

Total No. of CCUs Installed (1-6)

NOTE: Available range of the following items is determined by the CPC installed, and the number of CCUs specified in the above address.

CPC INSTALLED		NO. OF CCUS SPECIFIED IN PROGRAMMING (00 HOLD)					
(shaded cells not available with this CPC)	CPC-96:	1	2	3	4	5	6
	CPC-288:	1	2	3	4	5	6
	CPC-576:	1	2	3	4	5	6
MCO Tenant Groups:		12	24	36	48	60	72
Extension Hunt Groups:		12	24	36	48	60	72
Call Pickup Groups:		12	24	36	48	60	72
SSD Blocks:		12	24	36	48	60	72
Advanced Routing Chains:		12	24	36	48	60	72
Caller ID Log Extensions:		20	40	60	80	100	120
Hot Dial Pad Extensions:		96	192	288	384	480	576
Virtual Ports:		96	192	288	384	480	576
Extensions:		96	192	288	384	480	576
Exchange Lines:		96	192	288	384	480	576
DDI/CLI Nos. per table		96	192	288	384	480	576

Notes:

See **General Notes** (pg. 0-2).

IMPORTANT: Once the number of CCUs is entered in this address, it is not possible to reduce the number of CCUs later, without re-initialising the system (which resets everything to their default values).

Related Programming:

Free Slot Assignment

101 :1
Card ID # for FS

(all CPCs) - Version 2.0 or higher

Enter the type of card installed in each Free Slot of the CCU.

01 (1-6) (01-12) Hold (1-99) Hold

CCU No. 1-6	Free Slot No. 1-12 *(see figure, next page)*	Card Type No. 1-99 *(see table, next page)*

Notes:

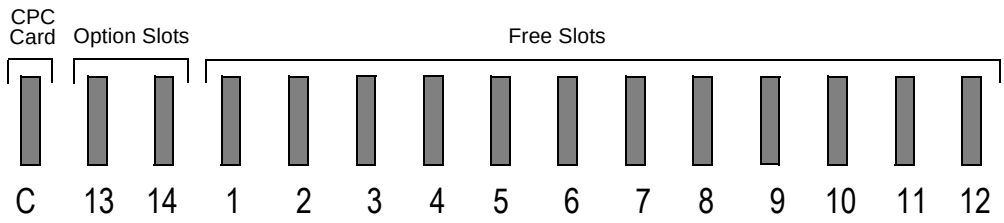
See **General Notes** (pg. 0-2).

The first time you install a card into a Free Slot, and nothing is programmed for it (no port settings, etc.), the system will automatically detect the card.

Related Programming:

Card Reset (pg. 8-23) **FF8 0 04 0 BSS Hold (0 or 1) (FL/R + Hold)**
Card Type Verification (pg. 8-23) **FF8 0 04 1 BSS 00 Hold [01-99 displays]**
Card Version Verification (pg. 8-24) **FF8 0 04 1 BSS 01 Hold [Version No. displays]**
T1 Loopback 1 Diagnostics (pg. 8-34) **FF8 0 05 3 BSS(C) Hold (0 or 1) Hold**
T1 Loopback 2 Diagnostics (pg. 8-34) **FF8 0 05 4 BSS(C) Hold 1 Hold**

Figure 0-3: CCU Slots



Option Slot Assignment

113 :50
Card ID # for OP

(all CPCs) - Version 2.0 or higher

Enter the type of card installed in each of the two Option Slots in the CCU.

02 (1-6) (13 or 14) Hold (50 or 61) Hold

CCU No. 1-6

13="OP1" option slot
14="OP2" option slot

Card Type No. 50 (for MFR/8)
or 61 (for SCC w/RAI-*all except USA*)

Notes:

"MFR/8" (DTMF Receiver cards) cannot be automatically detected by the system. You must manually assign them in this address.

Typically, Option Slots are used for SCC (Service Control cards) or TSW (Time Switch cards), which do not require a code assignment.

(all except USA) When the RAI unit is mounted on the SCC card, Card Type 61 must be manually assigned for the SCC card in the above address.

Related Programming:

Card Reset (pg. 8-23) FF8 0 04 0 BSS Hold (0 or 1) (FL/R + Hold)
Card Type Verification (pg. 8-23) FF8 0 04 1 BSS 00 Hold [01-99 displays]
Card Version Verification (pg. 8-24) FF8 0 04 1 BSS 01 Hold [Version No. displays]
T1 Loopback 1 Diagnostics (pg. 8-34) FF8 0 05 3 BSS(C) Hold (0 or 1) Hold
T1 Loopback 2 Diagnostics (pg. 8-34) FF8 0 05 4 BSS(C) Hold 1 Hold

Table 0-1. Free Slot/Option Slot card types (01 and 02 addresses)

Setting	Card Type	Value	Applicable Countries	Notes
1	**LTRK/8 (COL/8)**	Loop Start Exchange Line Card (8-port)	all	
2	**LGTRK8 (COLG/8)**	Loop Start/Ground Start Exchange Line Card (8-port)	USA	
3	**DIDTR8 (COD/8)**	DID Card (8-port)	USA, Hong Kong	
4	**E&M/4**	E&M Card (4-port)	USA, Hong Kong	
5	**AC15/4**	AC15 Private Line Card 2B+D/4 (4-port)	U.K.	
6	**T1/8**	T1 Card (8-channel)	USA	
7	**T1/16**	T1 Card (16-channel)	USA	Use slot 1, 5, or 9. Next slot can't be used.
8	**T1/24**	T1 Card (24-channel)	USA	Use slot 1, 5, or 9. Next 2 slots can't be used.
9	*Not Used*			
10	**TBRI/4 (ISBT)**	ISDN BRI Exchange Line Card 2B+D/4	all	
11	**PRI/8 (ISPT/8)**	ISDN PRI Exchange Line Card 8B+D/1 (8-channel)	all	
12	**PRI/16 (ISPT/16)**	ISDN PRI Exchange Line Card 16B+D/1 (16-channel)	all	Use slot 1, 5, or 9. Next slot can't be used.
13	**PRI/23 (ISPT/24)**	ISDN PRI Exchange Line Card 23B+D/1 (23- or 24-channel)	USA, Hong Kong, Taiwan	Use slot 1, 5, or 9. Next 2 slots can't be used.
14	**ISPT2/24**	ISDN PRI Exchange Line Card 24B+D/1	U.K.	
15	**ISPT/30**	ISDN PRI Exchange Line Card 30B+D/1	U.K., Malaysia, Indonesia	
16	**QSIGB**	ISDN BRI 2B+D/4 (Q-Sig)	*(future use)*	
17	**QSIG/8**	ISDN PRI 8B+D/1 (Q-Sig)		
18	**QSIG/16**	ISDN PRI 16B+D/1 (Q-Sig)		
19	**QSIG/24**	ISDN PRI 23B+D/1 (Q-Sig)		
20	**QSIG/30**	ISDN PRI 30B+D/1 (Q-Sig)		
21-29	*Not Used*			
30	**DEC/8 (LCD)**	Digital Extension Card (8-port)	all	
31	**AEC/8 (LCA)**	Analog Extension Card (8-port)	all	
32	**LCX**	Long Line SLT Card (4-port)	*(future use)*	
33-34	*Not Used*			
35	**SBRI/4 (ISBS)**	ISDN S-point BRI Extension Card 2B+D/4	all	
36	**PRI/8 (ISPS/8)**	ISDN S-point PRI Extension Card 8B+D/1 (8-channel)	all	

Setting	Card Type	Value	Applicable Countries	Notes
37	**PRI/23 (ISPS/24)**	ISDN S-point PRI Extension Card 23B+D/1 (23- or 24-channel)	USA, Hong Kong, Taiwan	Use slot 1, 5, or 9. Next 2 slots can't be used.
38	**ISPS/30**	ISDN S-point PRI Extension Card 30B+D/1	U.K., Malaysia, Indonesia	
39-49	*Not Used*			
50	**MFR**	DTMF Receiver Card (8-port)	all	Install in OP slot 13 or 14.
51	**RAI**	Remote Administration Interface Card	all except USA	
52	**CONF1**	8-Party Conference Card #1		
53	**CONF2**	8-Party Conference Card #2		
54	**CONF3**	8-Party Conference Card #3		
55	**CONF4**	8-Party Conference Card #4		
56-59	*Not Used*			
60	**VMC VPU4-1**	Built-In Voice Mail (VSSC and one VPU/4)	all (CAB-40 or CAB-96)	Slot 04 or 10=VPU/4 Slot 05 or 11=VSSC Provides 4 voice ports.
61	*Not Used*			
62	**VMC VPU8-1**	Built-In Voice Mail (VSSC and one VPU/8)	all (CAB-40 or CAB-96)	Slot 04 or 10=VPU/8 Slot 05 or 11=VSSC Provides 8 voice ports.
63	*Not Used*			
64	**VMC VPU4-1/ VPU4-2**	Built-In Voice Mail (VSSC and two VPU/4s)	all (CAB-96 only)	Slot 09=VPU/4 Slot 10=VPU/4 Slot 11=VSSC Provides 8 voice ports.
65	**VMC VPU8-1/ VPU4-2**	Built-In Voice Mail (VSSC, one VPU/8, one VPU/4)	all (CAB-96 only)	Slot 09=VPU/8 Slot 10=VPU/4 Slot 11=VSSC Provides 12 voice ports.
66	*Not Used*			
67	**VMC VPU8-1/ VPU8-2**	Built-In Voice Mail (VSSC and two VPU/8s)	all (CAB-96 only)	Slot 09=VPU/8 Slot 10=VPU/8 Slot 11=VSSC Provides 16 voice ports.
68-69	*Not Used*			
70	**SACD VPU4-1**	ACD 4-channel #1	all	Provides 4 voice ports.
71	**SACD VPU4-2**	ACD 4-channel #2	all	Provides 4 voice ports.
72-79	*Not Used*			
80	**API-AEC2 (API/2 LCA)**	API with AEC for 3rd-Party Voice Mail (2-port)	USA only	ports 7-8: Voice Mail ports 1-6: available for use
81	**API-AEC4 (API/4 LCA)**	API with AEC for 3rd-Party Voice Mail (4-port)	USA only	ports 5-8: Voice Mail ports 1-4: available for use
82	**API-AEC6 (API/6 LCA)**	API with AEC for 3rd-Party Voice Mail (6-port)	USA only	ports 3-8: Voice Mail ports 1-2: available for use

Setting	Card Type	Value	Applicable Countries	Notes
83	**API-AEC8 (API/8 LCA)**	API with AEC for 3rd-Party Voice Mail (8-port)	USA only	ports 1-8: Voice Mail
84	**API-DEC2 (API/2 LCD)**	API with DEC for 3rd-Party Voice Mail (2-port)	USA only	ports 7-8: Voice Mail ports 1-6: available for use
85	**API-DEC4 (API/4 LCD)**	API with DEC for 3rd-Party Voice Mail (4-port)	USA only	ports 5-8: Voice Mail ports 1-4: available for use
86	**API-DEC6 (API/6 LCD)**	API with DEC for 3rd-Party Voice Mail (6-port)	USA only	ports 3-8: Voice Mail ports 1-2: available for use
87	**API-DEC8 (API/8 LCD)**	API with DEC for 3rd-Party Voice Mail (8-port)	USA only	ports 1-8: Voice Mail
88-99	*Reserved for future use*			

1. System Programming (FF1)

Use the FF1 programming addresses in this chapter to set system-wide parameters for the ICX:

FF1 0: System Common

FF1 0 01	General 1
FF1 0 02	General 2
FF1 0 03	Extension COS Definitions
FF1 0 04	Exchange Line COS Definitions
FF1 0 05	Serial Ports
FF1 0 06	Serial Port Output Data
FF1 0 07 and 08	PBX Parameters
FF1 0 09	Call Logging Output Format
FF1 0 10 and 11	Call Restriction Between COS
FF1 0 12, 13, and 14	MOH Source
FF1 0 15, 16, and 17	SSD Blocks
FF1 0 18	Sychronised Clock
FF1 0 19	TRS Class for Forced Account Codes
FF1 0 20	Ext.No. Display for Closed-Number Calls
FF1 0 21	Ring Alarm for Unanswered Calls
FF1 0 22	Dealer Programming ID Code
FF1 0 23 and 24	Voice Mail Codes
FF1 0 25	Caller ID Add Digits
FF1 0 26	DISA ID Codes

FF1 1: System Timers

FF1 1 01	Exchange Line Timer 1
FF1 1 02	Exchange Line Timer 2
FF1 1 03	Extension Timer 1
FF1 1 04	Extension Timer 2

FF1 2: Dial Plan
FF1 3: MCO Access
FF1 4: DDI/CLI Tables
FF1 5: Not Used
FF1 6: Not Used
FF1 7: Not Used
FF1 8: Digital Pad Settings

This chapter covers the following FF1 addresses:

FF1 0 01 0008 Hold (0 or 1) Hold	Virtual Key LED: Answer Control #2	1 (Free-up key)	1-13
FF1 0 01 0009 Hold (0 or 1) Hold	Floating Hold on Exchange Line Key	0 (Disabled)	1-14
FF1 0 01 0010 Hold (0 or 1) Hold	Floating Hold on Virtual Port Key	0 (Disabled)	1-14
FF1 0 01 0011 Hold (0 or 1) Hold	Hot Line/MCO Preference for “ON/OFF” Key	0 (Disabled)	1-15
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FF1 2 07 (0001-0010) Hold (1-digit Code) Hold	Dial Plan B: Flexible Feature Codes at Busy Tone	See table, page 1-175	1-175
FF1 3: MCO Access in Tenant Groups			**1-176**
FF1 3 01 (0001-0360) Hold (0-99 or 0-72) Hold	Tenant Group MCO Access: Outbound Exchange-Line Groups	See table, page 1-177	1-177
FF1 3 02 (0001-0360) Hold (0-99) Hold	Advanced Routing: Outbound Exchange-Line Group Chains	0 (none)	1-179
FF1 3 03 (0001-0072) Hold (1-99) Hold	Tenant Groups: Inbound Exchange-Line Groups	See table, page 1-181	1-181
FF1 4: DDI/CLI Tables			**1-183**
FF1 4 01 0001 Hold (1-4) Hold	DDI/CLI Numbering (“A” Side)	4 (digits)	1-183
FF1 4 02 (000-575) (1-6) Hold (0-9999 or 1-72) Hold	DDI/CLI Dial Table (“A” Side)	0 (none)	1-184
FF1 4 03 0001 Hold (1-4) Hold	DDI/CLI Numbering (“B” Side)	4 (digits)	1-186
FF1 4 04 (000-575) (1-6) Hold (0-9999 or 1-72) Hold	DDI/CLI Dial Table (“B” Side)	0 (none)	1-187
FF1 4 05 (0001-0192) Hold (0-9999) Hold	DDI Dialling to ISDN “S” Point	--	1-189
FF1 4 06 0001 Hold (0-3) Hold	3rd-party VM: DDI Number Automatic Send	0 (do not send DDI No.)	1-191
FF1 4 06 0002 Hold (up to 8 char.) Hold	3rd-party VM: ID Code Prefix for DDI	(none)	1-191
FF1 4 06 0003 Hold (up to 8 char.) Hold	3rd-party VM: ID Code Suffix for DDI	(none)	1-192
FF1 5: Not Used			**1-192**
FF1 6: Not Used			**1-192**
FF1 7: Not Used			**1-192**
FF1 8: Digital Pad Settings			**1-193**
FF1 8 01 (0001-0240) Hold (0-31) Hold	Digital Pad Settings for Extension Pad Class	See table, page 1-193	1-193
FF1 8 02 (0001-0480) Hold (0-31) Hold	Digital Pad Settings for Exchange Line Pad Class	See tables, page 1-196 and 1-197	1-195
FF1 8 03 (0001-0008) Hold (0-31) Hold	Digital Pad Settings for BGM	See table, page 1-198	1-198
FF1 8 04 (0001-0024) Hold (0-31) Hold	Digital Pad Settings for Paging Port Adapter	See table, page 1-199	1-199
FF1 8 05 (0001-0024) Hold (0-31) Hold	Digital Pad Settings for 3-Party Conference	See table, page 1-201	1-200
FF1 8 06 (0001-0024) Hold (0-31) Hold	Digital Pad Settings for 8-Party Conference	See table, page 1-202	1-202

FF1 0: System Common

FF1 0 01: General 1

Splash Tone: Voice Calls

0001 :1
SPT for Voice

(all CPCs) - Version 2.0 or higher

Set whether the system will issue a “splash” tone to alert called-party extensions of a voice call (on-speaker).

FF1 0 01 0001 Hold (0 or 1) Hold

0=No splash tone.

1=Splash tone is heard for voice calls. (default)

Notes:

Related Programming:

Extension COS: Intercom Calling Type (pg. 1-37) FF1 0 03 (00-15) 01 Hold (0 or 1) Hold
Extension COS: Voice Call Send (pg. 1-72) FF1 0 03 (00-15) 36 Hold (0 or 1) Hold
Extension COS: Voice Call Receive (pg. 1-73) FF1 0 03 (00-15) 37 Hold (0 or 1) Hold

Splash Tone: Internal Paging

0002 :1
SPT for Paging

(all CPCs) - Version 2.0 or higher

Set whether the system will issue a “splash” tone at the beginning of an internal page (heard on extension phone speakers).

FF1 0 01 0002 Hold (0 or 1) Hold

0=No splash tone.

1=Splash tone is heard for internal page. (default)

Notes:

(all CPCs - Version 2.5 and higher) Phones set to DND will ***not*** receive pages. However, phones set to Call Forward-All ***will*** receive pages.

Related Programming:

Page Override (pg. 1-28) **FF1 0 02 0012 Hold (0 or 1) Hold**
Extension COS: Paging (pg. 1-51) **FF1 0 03 (00-15) 15 Hold (0 or 1) Hold**
FF5 4: Paging Groups (pg. 5-22)

FF1
System

Splash Tone: Busy Override (Start)

0003 :1
SPT Override 1

(all CPCs) - Version 2.0 or higher

Set whether the system will issue a "splash" tone to the called party at the beginning of a Busy Override call.

FF1 0 01 0003 Hold (0 or 1) Hold

0=No splash tone.

1=Splash tone is heard for a Busy Override. (default)

Notes:

Related Programming:

Extension COS: Busy Override Send (pg. 1-63) **FF1 0 03 (00-15) 27 Hold (0 or 1) Hold**
Busy Override on Exchange-Line Key (pg. 3-9) **FF3 0 BSSC 04 03 Hold (0 or 1) Hold**

Splash Tone: Busy Override (Continuous)

0004 :0
SPT Override 2

(all CPCs) - Version 2.0 or higher

Set whether the system will issue a recurring "splash" tone during a conversation in Busy Override.

FF1 0 01 0004 Hold (0 or 1) Hold

0=No splash tone. (default)

1=Splash tone is heard every 2 seconds during a Busy Override.

Notes:

Related Programming:

Extension COS: Busy Override Send (pg. 1-63) **FF1 0 03 (00-15) 27 Hold (0 or 1) Hold**
Busy Override on Exchange-Line Key (pg. 3-9) **FF3 0 BSSC 04 03 Hold (0 or 1) Hold**

Splash Tone: 3-Party Conference

0005 :0
SPT for CONF

(all CPCs) - Version 2.0 or higher

Set whether the system will issue a recurring "splash" tone to all parties when a 3-way conference call is initiated.

FF1 0 01 0005 Hold (0 or 1) Hold

0=No splash tone. (default)

1=Recurring splash tone is heard during a 3-Party Conference.

Notes:

Related Programming:

Extension COS: Brokers Hold on SLTs (pg. 1-43) **FF1 0 03 (00-15) 07 Hold (0 or 1) Hold**
Digital Pad Settings for 3-Party Conference (pg. 1-200) **FF1 8 05 (0001-0024) Hold (0-31) Hold**

Exclusive Hold (Exchange Line Key)

0006 :1
Exclusive Hold

(all CPCs) - Version 2.0 or higher

Allow/Restrict the ability to place a call on Exclusive Hold by pressing the exchange line FF-key for it.

FF1 0 01 0006 Hold (0 or 1) Hold

0=Disable Exclusive Hold via exchange line key.

1=Enable Exclusive Hold via exchange line key. (default)

Notes:

Related Programming:

Extension COS: Exclusive Hold for Non-Appearing CO (pg. 1-41) FF1 0 03 (00-15) 05 Hold (0 or 1) Hold

Virtual Key LED: Answer Control #1

0007 :0
Virtual CONT 1

(all CPCs) - Version 2.0 or higher

FF1 System

Set whether all FF-key line appearances for a Virtual Port will extinguish or stay lit when an incoming call to the Virtual Port is answered.

FF1 0 01 0007 Hold (0 or 1) Hold

0=Free-up FF-key (extinguish). (default)

1=Stay lit (busy).

Notes:

Virtual Ports: Extensions that do not physically exist, and do not require any hardware (doesn't take up a slot, port, etc.). Virtual Ports can be used for multiple ringing. Some examples are as follows:

- ❒ Incoming DDI (Direct Dialling Inward) or DIL (Direct-In-Line) calls to a Virtual Port can ring on multiple phones.
- ❒ Virtual Ports can be assigned to Hunt Groups.
- ❒ Virtual Ports can receive calls going through Auto Attendant (e.g., *"for Customer Service, press 1"*).
- ❒ Virtual Ports can be used as System Park orbits.

The above address, "Answer Control #1," interacts with the next address, "Answer Control #2." Once an incoming call is answered on a Virtual Port FF-key, one of the following can be programmed to occur:

(1) the call stays on the Virtual FF-key for all phones that have it;
(2) the call stays on the Virtual FF-key only on the phone that answers the call; or
(3) the call moves to the MCO key to which the exchange line belongs.

See table (next page) for interaction details.

In programming, you can allow the phone user to press ON/OFF (instead of the FF-key) to answer the incoming call by enabling the phone's extension port for **Ringing Line Preference (ON/OFF)** (see pg. 3-8).

Related Programming:

Day1/2/Night Ring Type/Destination for exchange lines -- see Chapter 2: Exchange Line Programming
Ringing Line Preference (ON/OFF) (pg. 3-8) FF3 0 BSSC 04 01 Hold (0 or 1) Hold
FF3 2: Virtual Ports (pg. 3-40)
FF-Key Feature Assignment (Digital Keyphones, SLTs, EM/24s) (pg. 4-7) FF4 0 BSSC 0 (01-32) Hold FL/R (Code) Hold
Exchange Line FF-Key Allow/Restrict settings -- FF4 (starting on pg. 4-10)

Table 1-1. Interaction between Virtual Key LED Answer Control #1 and #2 settings

Answer Control #1 (all phones) FF1 0 01 0007 Hold (0/1) Hold 0=free-up FF-key (unlit) 1=stay lit (busy)	**Answer Control #2 (answering phone only) FF1 0 01 0008 Hold (0/1) Hold** 0=stay lit (busy) 1=free-up FF-key (unlit)	**Result:** An incoming call to the Virtual Port will ring on all phones with a Virtual FF-key line appearance for it. When the call is answered ...
0	**0**	... the FF-key will stay lit on ***the phone that answered*** the call. The Virtual Port's FF-keys on ***all other phones*** will extinguish (the call appearance moves to the MCO key to which the exchange line belongs). These Virtual FF-keys are now available for the next incoming call to the Virtual Port.
0	**1**	**(default)** ... the Virtual Port's FF-keys on ***all phones*** will extinguish (the call appearance moves to the MCO key to which the exchange line belongs). These Virtual FF-keys are now available for the next incoming call to the Virtual Port.
1	**0**	... all FF-keys for the Virtual Port will stay lit.
1	**1**	... all FF-keys for the Virtual Port will stay lit. (same as **1 - 0** above, because if Answer Control #1 is set to "1=stay lit," negates any Answer Control #2 setting)
NOTE: If the phone doesn't have an MCO key for the exchange line, the call will not "appear" anywhere on the phone when it is moved from the Virtual Port FF-key; but it will remain a normal call (can be put on hold, transferred, etc.).		

Virtual Key LED: Answer Control #2

0008 :1
Virtual CONT 2

(all CPCs) - Version 2.0 or higher

Set whether the FF-key line appearance for a Virtual Port will extinguish or stay lit on the phone that answers an incoming call to the Virtual Port.

FF1 0 01 0008 Hold (0 or 1) Hold

0=Stay lit (busy).

1=Free-up FF-key (extinguish). (default)

Notes:

See **Notes,** previous page.

This setting will apply only if **Virtual Key LED: Answer Control #1** is set to "0=Free-up" (default).

Related Programming:

See **Related Programming,** previous page.

Floating Hold on Exchange Line Key

0009 :0
Auto Floating

(all CPCs) - Version 2.0 or higher

Enable/Disable Floating Hold on an exchange line FF-key by pressing the HOLD key.

FF1 0 01 0009 Hold (0 or 1) Hold

0=Disable Floating Hold on exchange line FF-key (via HOLD). (default)

1=Enable Floating Hold on exchange line FF-key (via HOLD).

FF1 System

Notes:

Floating Hold: When a call is placed on hold, any phone with a line appearance (exchange line FF-key) for that call can pick it up by pressing the FF-key.

Related Programming:

FF-Key Feature Assignment (Digital Keyphones, SLTs, EM/24s) (pg. 4-7) FF4 0 BSSC 0 (01-32) Hold FL/R (Code) Hold

Floating Hold on Virtual Port Key

0010 :0
Virtual Hold

(all CPCs) - Version 2.0 or higher

Enable/Disable Floating Hold on Virtual Port FF-keys.

FF1 0 01 0010 Hold (0 or 1) Hold

0=Disable Floating Hold on Virtual Port FF-keys. (default)

1=Enable Floating Hold on Virtual Port FF-keys.

Notes:

When a Virtual Port call is put on hold, the Virtual Port's FF-key LED will indicate busy status (red solid) while the call is on hold.

Related Programming:

FF3 2: Virtual Ports (pg. 3-40)

Hot Line/MCO Preference for "ON/OFF" Key

0011 :0
ON/OFF Control

(all CPCs) - Version 2.0 or higher

Set whether system will seize an MCO exchange line when ON/OFF is pressed on a digital keyphone.

FF1 0 01 0011 Hold (0 or 1) Hold

0=Disabled. (default) Receive intercom dial tone when ON/OFF is pressed.

1=Enabled. Seize MCO exchange line at ON/OFF.

FF1 System

Notes:

If set to "1" (seize MCO exchange line), an FF-key must be assigned for intercom calls (Headset feature).

Related Programming:

MCO Prime Line (pg. 3-21) **FF3 0 BSSC 04 23 Hold (0 or 1) Hold**
FF5 5: Hot Line Group (pg. 5-24)

Programming Mode Entry

0012 :1
PROG 1st Port

(all CPCs) - Version 2.0 or higher

Allow/Restrict the ability of the lowest-numbered digital extension port to enter programming mode (ON/OFF PROG ** PROG) without a Log-In Code.

FF1 0 01 0012 Hold (0 or 1) Hold

0=Do not allow programming mode entry.

1=Allow programming mode entry without a valid Log-In Code. (default)

Notes:

Related Programming:

Dealer Programming ID Code (pg. 1-121) **FF1 0 22 0001 Hold (0000-9999) Hold**

Built-In VM: Voice Mail Access Key

0013 :1
VM Key CONT 1

(all CPCs) - Version 2.0 or higher

Allow/Restrict the ability to call the Built-In Voice Mail system by pressing an FF-key programmed for Built-In VM access.

FF1 0 01 0013 Hold (0 or 1) Hold

0=Disable Built-In VM access via FF-key.

1=Enable Built-In VM access via FF-key. (default)

FF1 System

Notes:

If this address is set to "1" (Enabled), a voice mail access code must be assigned to an FF-key.

Once assigned, the FF-key LED will indicate the recording is active.

Related Programming:

FF7 0: Built-In Voice Mail (pg. 7-3)

Built-In VM: Mailbox Key

0014 :1
VM Key CONT 2

(all CPCs) - Version 2.0 or higher

Allow/Restrict the ability to leave a message in Built-In Voice Mail by pressing a mailbox key.

FF1 0 01 0014 Hold (0 or 1) Hold

0=Disable Built-In VM mailbox key.

1=Enable Built-In VM mailbox key. (default)

Notes:

Related Programming:

FF7 0: Built-In Voice Mail (pg. 7-3)

Built-In VM: Message Retrieve Key

0015 :1
VM Key CONT 3

(all CPCs) - Version 2.0 or higher

(USA only) (Large Display phones only) Allow/Restrict the ability of Large-Display phones (VB-44225) to retrieve messages from Built-In Voice Mail by pressing the MSG key.

FF1 0 01 0015 Hold (0 or 1) Hold

0=Disable MSG key for message retrieval from Built-In VM.

1=Enable MSG key for message retrieval from Built-In VM. (default)

FF1 System

Notes:

If the MSG key is not available, assign the "Retrieve Messages" feature access code to an FF-key (see FF4 for instructions).

Related Programming:

FF7 0: Built-In Voice Mail (pg. 7-3)
MSG Key ID Codes (pg. 8-52) FF8 1 06 Hold Hold (0-9999) Hold FL/R (up to 16 char.) Hold

Off-Hook Monitor

0016 :1
Off-Hook Monitor

(all CPCs) - Version 2.0 or higher

Enable/Disable off-hook monitoring on speakerphones.

FF1 0 01 0016 Hold (0 or 1) Hold

0=Disable Off-Hook Monitoring.

1=Enable Off-Hook Monitoring. (default)

Notes:

Off-Hook Monitoring: Put a call on-speaker while the handset is off-hook (simply press ON/OFF key). Two-way communication is still available through the handset; however, only one-way communication (caller-to-you) is available through the speaker (caller can't hear from the speaker).

Related Programming:

Handset Mute

0017 :1
Handset Mute

(all CPCs) - Version 2.0 or higher

Enable/Disable Handset Mute. Applies to Tone Calling only.

FF1 0 01 0017 Hold (0 or 1) Hold

0=Disable Handset Mute.

1=Enable Handset Mute for Tone calling. (default)

FF1
System

Notes:

Handset Mute: Block audio to the outside party by pressing an FF-key preprogrammed for the Mute function. Press the FF-key again to restore outgoing audio.

Related Programming:

Extension COS: Intercom Calling Type (pg. 1-37) FF1 0 03 (00-15) 01 Hold (0 or 1) Hold

Hookflash on Rotary SLTs

0018 :0
SLT HK CONT

(all CPCs) - Version 2.0 or higher

Set what happens when the digit "1" is dialled on rotary (dial-pulse) SLT phones during a call.

FF1 0 01 0018 Hold (0 or 1) Hold

0=Dialling "1" performs hookflash. (default)

1=Dialling "1" outpulses the "1" digit.

Notes:

Related Programming:

ISDN Outgoing Control

0019 :0
ISDN Setup CONT

(all CPCs) - Version 2.0 or higher

Enable/Disable automatic dialling when a digit string dialled on an ISDN exchange line or extension matches an Automatic Route Selection (ARS) entry.

FF1 0 01 0019 Hold (0 or 1) Hold

0=Disabled. (default) Needs number code for outgoing.
1=Enabled.

FF1 System

Notes:

Set this to "0" (Disable) if the system doesn't use ARS routing. (Users must press the # key, or wait until the Interdigit Timer expires, to dial out.)

Set this to "1" (Enable) if you want the system to seize the exchange line and dial out automatically (so the ISDN user doesn't have to press # to send the call). If enabled, automatic outdialling is controlled by the addresses listed in **Related Programming** below.

Related Programming:

(if automatic outdialling is enabled...)

Leading Digits Table: Follow Digit Maximum (pg. 6-7) FF6 0 00 (001-100) 0003 Hold (0-16) Hold
Analyse Digits Table: Follow Digit Maximum (pg. 6-13) FF6 0 01 (001-500) 0003 Hold (0-16) Hold
Closed Number Table: Follow Digit Maximum (pg. 6-45) FF6 2 07 (001-150) 0002 Hold (0-16) Hold

Automatic BLF on DSS and EM/24 Units

0020 :0
BLF Auto Assign

(all CPCs) - Version 2.0 or higher

Enable/Disable automatic BLF key assignment for a DSS or EM/24, which (if enabled) will apply after setting the extension port's **Phone Type** (see pg. 3-3).

FF1 0 01 0020 Hold (0 or 1) Hold

0=Disable automatic BLF assignment on DSS and EM/24. (default)
1=Enable automatic BLF assignment at initialisation.

Notes:

If this address is enabled, the following automatic assignments apply to **DSS Consoles:**

FF1-FF60	automatically assigned Ext. Nos., from smallest Ext.No. as FF1, to largest Ext. No. as FF60. If there are less than 60 extensions, the remaining FF-keys (up to FF60) will be blank.
FF61-FF66	Floating Keys 1-6

FF67-FF71 Paging Groups 0-4
FF72 System Mode (Day/Night) Switch.

If this address is enabled, the following automatic assignments apply to **EM/24 Units:**

FF1-FF24 Ext. Nos., from smallest Ext.No. as FF1, to largest Ext. No. as FF24. If there are less than 24 extensions, the remaining FF-keys (up to FF24) will be blank.

Related Programming:

Phone Type (pg. 3-3) **FF3 0 BSSC 00 Hold (1-3) Hold**

Caller ID Log Outgoing Control

0021 :0
CID Log Dial

(all CPCs) - Version 2.0 or higher

Enable/Disable automatic outdialling when a Caller ID phone number entry on the displayed Caller ID Log is selected (via soft key on LCD display).

FF1 0 01 0021 Hold (0 or 1) Hold

0=Disabled. (default)
1=Enabled.

Notes:

Related Programming:

Caller ID Log Extensions (pg. 8-64) **FF8 1 10 Hold Hold (001-120) Hold (0-9999) Hold**

Caller ID Log Private/Out-of-Area Control

0022 :1
CID Logging CONT

(all CPCs) - Version 2.0 or higher

Enable/Disable the inclusion of “Private” or “Out of Area” calls on the Caller ID Log.

FF1 0 01 0022 Hold (0 or 1) Hold

0=Disable Caller ID Log for “Private” or “Out of Area” calls.
1=Enable Caller ID Log for “Private” or “Out of Area” calls. (default)

Notes:

Private Calls: The caller has blocked their own Caller ID information.

Out-of-Area Calls: The CO does not support Caller ID data, so the information is not sent.

Related Programming:

Caller ID Log Extensions (pg. 8-64) **FF8 1 10 Hold Hold (001-120) Hold (0-9999) Hold**

Time Display Mode

0023 :1
24/12 Hours

(all CPCs) - Version 2.0 or higher

Select the method for displaying the current (system clock) time on phone LCDs:
24-hour format (e.g., "15:00" for 3:00 pm)
or **12-hour format** (e.g., "03:00" for 3:00 pm).

FF1 0 01 0023 Hold (0 or 1) Hold

0=24-hour format.
1=12-hour format. (default)

Notes:

CPC Reset is required in order to activate a change to this setting.

Related Programming:

System Time (pg. 8-42) **FF8 1 00 1 Hold (HHMM) Hold**

FF1 0 02: General 2

FF1
System

Exchange Line Numbering

0001 :0
TRK Numbering

(all CPCs) - Version 2.0 or higher

Set the system-wide digit length of exchange line numbers.

FF1 0 02 0001 Hold (0 or 1) Hold

0=2-digit exchange line numbering. (default)
1=3-digit exchange line numbering.

Notes:

Related Programming:

Exchange-Line Number Assignment (pg. 2-7) for analog exchange lines FF2 0 BSSC 00 Hold (0-576) Hold
Private-Line Number Assignment (pg. 2-38) for AC-15 private lines FF2 0 BSSC 00 Hold (0-576) Hold
Exchange-Line Number Assignment (1st Channel) (pg. 2-61) for first ISDN exchange line FF2 1 BSSC 01 Hold (0-576) Hold
Trunk Number Assignment (pg. 2-87) for T1-CO lines *(USA only)* FF2 2 BSSCC 01 Hold (0-576) Hold
Trunk Number Assignment (pg. 2-116) for T1 E&M tie lines *(USA only)* FF2 2 BSSCC 01 Hold (0-576) Hold

SSD Code Numbering

0002 :1
SSD Numbering

(all CPCs) - Version 2.0 or higher

Set the system-wide digit length of SSD codes.

FF1 0 02 0002 Hold (0 or 1) Hold

0=2-digit SSD code numbering.
1=3-digit SSD code numbering. (default)

Notes:

If you select "2-digit numbering," up to 80 SSDs (numbered 00-79) are available.

If you select "3-digit numbering," up to 800 SSDs (numbered 000-799) are available.

Related Programming:

SSD Common Block for MCO Tenant Groups (pg. 1-114) FF1 0 16 0001 Hold (0-800) Hold
SSD Block Table (pg. 1-114) FF1 0 17 (0001-0144) Hold (0-799 or 0-800) Hold
SSD Numbers (pg. 8-46) FF8 1 02 Hold 0 Hold Hold (00/0-79/9) Hold FL/R (up to 24 char.) Hold

SSD Assignment to Groups

0003 :0
SSD Type

(all CPCs) - Version 2.0 or higher

Allow/Restrict the ability to assign SSD code ranges to different MCO Tenant Groups.

FF1 0 02 0003 Hold (0 or 1) Hold

0=Disabled. (default) All extensions can use all SSD codes.

1=Enabled. SSD codes can be divided into blocks & assigned to different groups.

Notes:

If this is set to "1=Enabled", you can assign (for example) SSDs 100-199 to MCO Tenant Group 1; SSDs 200-299 to MCO Tenant Group 2; and so on.

Related Programming:

Extension COS: SSD Assignment to MCO Tenant Groups (pg. 1-46) FF1 0 03 (00-15) 10 Hold (0 or 1) Hold
SSD Block Assignment to MCO Tenant Groups (pg. 1-113) FF1 0 15 (0001-0072) Hold (0-72) Hold

Exchange Line Access in Speed Dialling

0004 :1
Speed Dial Mode

(all CPCs) - Version 2.0 or higher

Set whether the system will automatically access an exchange line before outpulsing the phone number of an SSD or PSD code.

FF1 0 02 0004 Hold (0 or 1) Hold

0=System does not access an exchange line (assumes SSD/PSD is an internal call).

1=System automatically accesses an exchange line when an SSD/PSD code is dialled. (default)

Notes:

If this address is set to "0=System does ***not*** access exchange line automatically", you must enter the MCO access code in front of an outside number when programming it into a speed dial bin.

If this address is set to **"1=System automatically accesses exchange line" (default)**, the exchange line will be automatically chosen from MCO-1 when the user presses the SSD/PSD number or key. In order to program an intercom call into a speed dial bin, you must enter the Intercom access code in front of the extension number.

Related Programming:

PSD Numbers (pg. 8-44) **FF8 1 01 Hold 0 Hold Hold (0-9999) Hold (PSD) Hold FL/R (up to 24 char.) Hold**
SSD Numbers (pg. 8-46) **FF8 1 02 Hold 0 Hold Hold (00/0-79/9) Hold FL/R (up to 24 char.) Hold**

FF1
System

Intercom Voice Call Pickup

0005 :0
Pick-up V-call

(all CPCs) - Version 2.0 or higher

Enable or disable Call Pickup (Direct and Group) of intercom voice calls.

FF1 0 02 0005 Hold (0 or 1) Hold

0=Disable Call Pickup of intercom voice calls. (default)
1=Enable Call Pickup of intercom voice calls.

Notes:

Related Programming:

BLF Call Pickup

0006 :1
Pick-up BLF

(all CPCs) - Version 2.0 or higher

Enable/Disable the ability to pick up incoming calls on a BLF (Busy Lamp Field) key.

FF1 0 02 0006 Hold (0 or 1) Hold

0=Disable BLF Call Pickup.
1=Enable BLF Call Pickup. (default)

Notes:

BLF Key (or DSS/BLF Key): FF-keys assigned to represent other extensions. Press the BLF Key to call the extension, or pick up its incoming calls on either an immediate-ring or delayed-ring basis. BLF Keys are assigned in FF4: FF-Key/Soft Key Feature Assignment.

(all CPCs - Version 2.5 and higher) Incoming calls on BLF keys will blink green.

(all CPCs - Version 2.5 and higher) Assuming the above address is left at default **"1=Enable" ...**

- ❒ Auto Answer will apply (the ability to answer the incoming call simply by picking up the handset), as long as the BLF key is enabled for ringing in the **Exchange Line FF-Key** addresses in FF4. If the **Exchange Line FF-Key** addresses are left at default **"0=Do not ring",** the user must press the BLF key to answer the incoming call.
- ❒ If the phone is ringing for the BLF call, the phone's display will read "INCM" and the BLF Ext.No. or Name.
- ❒ If a BLF call is answered and in progress, the BLF key will start blinking green if it receives a second incoming call. Press the BLF key to pick up the second call (and disconnect from the first).

Related Programming:

Exchange-Line FF-Key: Day1 Ringing (pg. 4-11) **FF4 0 BSSC 1 (01-32) Hold CONF Holdx2 (0 or 1) Hold**
Exchange-Line FF-Key: Day2 Ringing (pg. 4-12) **FF4 0 BSSC 1 (01-32) Hold CONF Holdx3 (0 or 1) Hold**
Exchange-Line FF-Key: Night Ringing (pg. 4-12) **FF4 0 BSSC 1 (01-32) Hold CONF Holdx4 (0 or 1) Hold**
Exchange-Line FF-Key: No-Ring Auto Answer (pg. 4-13) **FF4 0 BSSC 1 (01-32) Hold CONF Holdx5 (0 or 1) Hold**
DSS Exch.Line FF-Key: Day1 Ringing (pg. 4-16) **FF4 1 BSSC 1 (01-72) Hold CONF Holdx2 (0 or 1) Hold**
DSS Exch.Line FF-Key: Day2 Ringing (pg. 4-17) **FF4 1 BSSC 1 (01-72) Hold CONF Holdx3 (0 or 1) Hold**
DSS Exch.Line FF-Key: Night Ringing (pg. 4-17) **FF4 1 BSSC 1 (01-72) Hold CONF Holdx4 (0 or 1) Hold**
DSS Exch.Line FF-Key: No-Ring Auto Answer (pg. 4-18) **FF4 1 BSSC 1 (01-72) Hold CONF Holdx5 (0 or 1) Hold**

Day/Night Mode Assignment

0007 :0
Day/Night Mode

(all CPCs) - Version 2.0 or higher

Set method of Day/Night Mode assignment.

FF1 0 02 0007 Hold (0 or 1) Hold

0=Day/Night Mode is set system-wide. (default)
1=Day/Night Mode is set for each MCO Tenant Group.

Notes:

If set to "0" (system-wide), Auto-Mode switching can be used.

If set to "1" (per MCO Tenant Group), each MCO Tenant Group can have its own Day and Night modes, but mode switching must be performed manually -- Auto-Mode switching is not allowed.

Related Programming:

Extension COS: System Mode Switch (pg. 1-62) **FF1 0 03 (00-15) 26 Hold (0 or 1) Hold**
Day1/2/Night Ring Type/Destination for exchange lines -- see Chapter 2: Exchange Line Programming
FF8 1 07: Special Days/Times (pg. 8-53)
System Mode Display (pg. 3-17) **FF3 0 BSSC 04 16 Hold (0 or 1) Hold**

Reset Calling: Intercom Calls

0008 :0
EXT Step Call

(all CPCs) - Version 2.0 or higher

Enable/Disable Reset Calling for intercom calls.

FF1 0 02 0008 Hold (0 or 1) Hold

0=Disable Reset Calling for intercom calls. (default)
1=Enable Reset Calling for intercom calls.

FF1
System

Notes:

Reset Calling: After dialling one extension, the caller can dial the last digit of another extension to transfer himself to that extension.

If this address is set to "1=Enable" and Reset Calling is performed during intercom busy tone, the system will ring the dialled extension, and ignore any feature code that matches the dialled digit. This means the following features cannot be dialled if Reset Calling is enabled (however, they can be performed if they are already programmed into an FF-key):

2=Internal Camp-On
3=Extension Callback
4=Extension Message-Wait
5=Priority Message-Wait
8=OHVA
9=Extension Busy Override

Related Programming:

Reset Calling: DISA/Private Line

0009 :0
TIE Step Call

(all CPCs) - Version 2.0 or higher

Enable/Disable Reset Calling for DISA or AC-15 private-line calls.

FF1 0 02 0009 Hold (0 or 1) Hold

0=Disable Reset Calling for DISA and private-line calls. (default)
1=Enable Reset Calling for DISA and private-line calls.

Notes:

Reset Calling: After dialling one extension, the caller can dial the last digit of another extension to transfer himself to that extension.

Related Programming:

ARS/LCR Setting

0010 :0
ARS/LCR

(all CPCs) - Version 2.0 or higher

Set whether Automatic Route Selection (ARS) will apply to outbound calls using the 1st-priority (MCO-1) exchange line access code ("9" by default).

FF1 0 02 0010 Hold (0 or 1) Hold

0=ARS will not apply to MCO-1 access code. (default)

1=ARS will apply to MCO-1 access code.

Notes:

If this address is set to **"0=ARS will *not* apply" (default)**, the system will seize an exchange line in MCO-1's assigned exchange line group.

If this address is set to "1=ARS ***will*** apply", the system will look in the ARS tables for a match after the phone number is dialled.

Related Programming:

Extension COS: Forced ARS (pg. 1-78) FF1 0 03 (00-15) 42 Hold (0 or 1) Hold
Tenant Group MCO Access: Outbound Exchange-Line Groups (pg. 1-177) FF1 3 01 (0001-0360) Hold (0-99 or 0-72) Hold
MCO Outbound Exchange-Line Group Members (pg. 5-20) FF5 2 (01-99) (002-577) Hold (1-576) Hold
FF6 0: TRS/ARS Common (pg. 6-5)
FF6 2: ARS Settings (pg. 6-27)

Advanced Routing for MCO Access

0011 :0
Route Advance

(all CPCs) - Version 2.0 or higher

Enable/Disable Advanced Routing for MCO exchange line access.

FF1 0 02 0011 Hold (0 or 1) Hold

0=Disable Advanced Routing. (default)

1=Enable Advanced Routing.

Notes:

Advanced Routing: "Chains" of up to 5 MCO exchange line groups can be searched when the user dials an MCO access code to seize an outside line. These MCO Exchange Line Group Chains are built in **FF1 3 02 (0001-0360) Hold (0-99) Hold (pg. 1-179)**.

If **ARS/LCR Setting (pg. 1-27)** is enabled, Advanced Routing is not available for MCO-1 Access Code ("9" by default). However, Advanced Routing will apply to MCO-2 thru MCO-5 ("81-84" by default).

Related Programming:

FF1 System

ARS/LCR Setting (pg. 1-27) FF1 0 02 0010 Hold (0 or 1) Hold

Tenant Group MCO Access: Outbound Exchange-Line Groups (pg. 1-177) FF1 3 01 (0001-0360) Hold (0-99 or 0-72) Hold

Advanced Routing: Outbound Exchange-Line Group Chains (pg. 1-179) FF1 3 02 (0001-0360) Hold (0-99) Hold

MCO Outbound Exchange-Line Group Members (pg. 5-20) FF5 2 (01-99) (002-577) Hold (1-576) Hold

Page Override

0012 :1
Paging Override

(all CPCs) - Version 2.0 or higher

Set whether a page currently in progress can be interrupted by a second page.

FF1 0 02 0012 Hold (0 or 1) Hold

0=Disable Page Override.

1=Enable Page Override. (default)

Notes:

If Page Override is disabled ("0"), the first page will continue uninterrupted, and the second page attempt will be blocked (user will hear busy tone).

If Page Override is enabled ("1"), the second page will interrupt the first page and cut it off.

Related Programming:

Extension COS: Paging (pg. 1-51) FF1 0 03 (00-15) 15 Hold (0 or 1) Hold

Paging Answer on Private Line

0013 :0
TIE Paging CONT

(all CPCs) - Version 2.0 or higher

Set whether the system ***receiving*** the page will send back an answer signal to the system ***originating*** the page, on an AC-15 private line.

FF1 0 02 0013 Hold (0 or 1) Hold

0=No answer signal. (default)

1=Answer signal is sent to the originating system.

Notes:

Related Programming:

Exchange Line COS: Paging on DISA/Private Line Call (pg. 1-92) **FF1 0 04 (00-15) 05 Hold (0 or 1) Hold**
FF2 0: AC-15 Private Lines (pg. 2-38)
FF2 2: T1-E&M Tie Lines (future use) (pg. 2-115)

Howler Tone

0014 :0
Howler Tone

(all CPCs) - Version 2.0 or higher

Enable/Disable Howler Tone.

FF1 0 02 0014 Hold (0 or 1) Hold

0=Disable Howler Tone. (default)

1=Enable Howler Tone.

Notes:

Howler Tone: A loud tone issued through the handset receiver to call attention to an off-hook/dial-tone condition (for example, when a user fails to hang up from a call).

Related Programming:

Extension COS: Dial Tone Pre-Pause Check (pg. 1-75) **FF1 0 03 (00-15) 39 Hold (0 or 1) Hold**
Pre-Pause Timer at Internal Dial Tone (DP SLTs) (pg. 1-152) **FF1 1 03 0003 Hold (0-255) Hold**
Pre-Pause Timer at Internal Dial Tone (DTMF SLTs) (pg. 1-153) **FF1 1 03 0004 Hold (0-255) Hold**
Pre-Pause Timer at Internal Dial Tone (Digital Keyphones) (pg. 1-153) **FF1 1 03 0005 Hold (0-255) Hold**
Interdigit Timer (Digital Keyphones) (pg. 1-155) **FF1 1 03 0008 Hold (0-255) Hold**
Howler Tone Duration Timer (Extensions) (pg. 1-166) **FF1 1 04 0016 Hold (0-255) Hold**

DISA Invalid Number

0015 :0
DISA Error #

(all CPCs) - Version 2.0 or higher

Set system action for invalid DISA calls received.

FF1 0 02 0015 Hold (0 or 1) Hold

0=Handled as a multiple-incoming call. (default)

1=Call will be disconnected.

FF1
System

Notes:

DISA (Direct Inward System Access): By dialling the DISA exchange line's phone number, an outside caller can dial into the phone system, and have full access to all the system's features without going through the Attendant (including the ability to transfer himself to different extensions, or dial-out on another exchange line). To set up DISA, set the exchange line for DISA service in the **Ring Type** addresses (FF2). Create DISA ID Codes and assign TRS Classes to them in FF1 0 26 0002-0033 (see pg. 1-127).

Multiple-Incoming Ringing: An incoming exchange line call will ring on all extensions that have a direct or MCO line appearance (FF-key) for that exchange line. The exchange line's **Ring Type** must be set to "0=Multiple Incoming (default)" in FF2. Exchange Lines and MCO exchange line groups are assigned to FF-keys in FF4.

Related Programming:

DISA ID Code Numbering (pg. 1-126) FF1 0 26 0001 Hold (0-10) Hold
Day1/Day2/Night Ring Type ...
for analog exchange lines (pg. 2-28) FF2 0 BSSC 03 (0, 2 and 4) Hold (0-6) Hold
for ISDN exchange lines (pg. 2-75) FF2 1 BSSC 04 (0, 2 and 4) Hold (0-6) Hold
for T1-CO lines (pg. 2-106) *(USA only)* FF2 2 BSSCC 04 (0, 2 and 4) Hold (0-6) Hold

DISA Interdigit Timeout

0016 :0
DISA DGT T-Out

(all CPCs) - Version 2.0 or higher

Set system action for incompleted incoming DISA calls (not receiving all DISA digits within 30 seconds, or more than 10 seconds elapsing between digits).

FF1 0 02 0016 Hold (0 or 1) Hold

0=Handled as a multiple-incoming call. (default)

1=Call will be disconnected.

Notes:

Related Programming:

DISA No-Answer Timeout

0017 :0
DISA No Answer

(all CPCs) - Version 2.0 or higher

Set system action for unanswered DISA calls (an extension does not answer a DISA call before the No-Answer Timer expires).

FF1 0 02 0017 Hold (0 or 1) Hold

0=Handled as a multiple-incoming call. (default)
1=Call will be disconnected.

Notes:

Related Programming:

DISA No-Answer Timer #1 (pg. 1-140) FF1 1 02 0001 Hold (0-255) Hold

DDI to Busy Extension (Day1)

0018 :0
DDI Busy Day1

(all CPCs) - Version 2.0 or higher

Set system action for DDI calls to a busy extension during Day1 mode.

FF1 0 02 0018 Hold (0 or 1) Hold

0=Busy signal returned to caller. (default)
1=Handled as a multiple-incoming call (rings at extension with FF-key line appearance for the DDI exchange line).

Notes:

DDI (Direct Dialling Inward): An outside caller can reach an internal extension directly by dialling an exchange line phone number. The DDI exchange line passes the last 2 to 4 digits of the phone number to the PBX, and the digits become (or are modified to become) the equivalent of an extension number. DDI exchange lines can't be used for outgoing calls (no dialtone offered). To set up DDI, set the

exchange line for DDI in the **Ring Type** addresses (FF2). Enter the DDI numbers and assign their ring and delayed-ring destinations in **FF1 4: DDI/CLI Tables** (see pg. 1-183).

Multiple-Incoming Ringing: An incoming exchange line call will ring on all extensions that have a direct or MCO line appearance (FF-key) for that exchange line. Exchange Lines and MCO exchange line groups are assigned to FF-keys in FF4.

Related Programming:

DDI/CLI Dial Table ("A" Side) (pg. 1-184) **FF1 4 02 (000-575) (1-6) Hold (0-9999 or 1-72) Hold**
DDI/CLI Dial Table ("B" Side) (pg. 1-187) **FF1 4 04 (000-575) (1-6) Hold (0-9999 or 1-72) Hold**
DDI Dialling to ISDN "S" Point (pg. 1-189) **FF1 4 05 (0001-0192) Hold (0-9999) Hold**

DDI to Busy Extension (Day2)

0019 :0
DDI Busy Day2

(all CPCs) - Version 2.0 or higher

Set system action for DDI calls to a busy extension during Day2 mode.

FF1 0 02 0019 Hold (0 or 1) Hold

0=Busy signal returned to caller. (default)
1=Handled as a multiple-incoming call (rings at extension with FF-key line appearance for the DDI exchange line).

Notes:

Related Programming:

DDI/CLI Dial Table ("A" Side) (pg. 1-184) **FF1 4 02 (000-575) (1-6) Hold (0-9999 or 1-72) Hold**
DDI/CLI Dial Table ("B" Side) (pg. 1-187) **FF1 4 04 (000-575) (1-6) Hold (0-9999 or 1-72) Hold**
DDI Dialling to ISDN "S" Point (pg. 1-189) **FF1 4 05 (0001-0192) Hold (0-9999) Hold**

DDI to Busy Extension (Night)

0020 :0
DDI Busy Night

(all CPCs) - Version 2.0 or higher

Set system action for DDI calls to a busy extension during Night mode.

FF1 0 02 0020 Hold (0 or 1) Hold

0=Busy signal returned to caller. (default)
1=Handled as a multiple-incoming call (rings at extension with FF-key line appearance for the DDI exchange line).

FF1 System

Notes:

Related Programming:

DDI/CLI Dial Table ("A" Side) (pg. 1-184) **FF1 4 02 (000-575) (1-6) Hold (0-9999 or 1-72) Hold**
DDI/CLI Dial Table ("B" Side) (pg. 1-187) **FF1 4 04 (000-575) (1-6) Hold (0-9999 or 1-72) Hold**
DDI Dialling to ISDN "S" Point (pg. 1-189) **FF1 4 05 (0001-0192) Hold (0-9999) Hold**

DDI to Incorrect Number (Day1)

0021 :0
DDI Error Day1

(all CPCs) - Version 2.0 or higher

Set system action for incorrect DDI calls (e.g., the DDI number has not been assigned to ring anywhere) during Day1 mode.

FF1 0 02 0021 Hold (0 or 1) Hold

0=Busy signal returned to caller. (default)
1=Handled as a multiple-incoming call (rings at extension with FF-key line appearance for the DDI exchange line).

Notes:

Related Programming:

DDI/CLI Dial Table ("A" Side) (pg. 1-184) **FF1 4 02 (000-575) (1-6) Hold (0-9999 or 1-72) Hold**
DDI/CLI Dial Table ("B" Side) (pg. 1-187) **FF1 4 04 (000-575) (1-6) Hold (0-9999 or 1-72) Hold**
DDI Dialling to ISDN "S" Point (pg. 1-189) **FF1 4 05 (0001-0192) Hold (0-9999) Hold**

DDI to Incorrect Number (Day2)

0022 :0
DDI Error Day2

(all CPCs) - Version 2.0 or higher

Set system action for incorrect DDI calls (e.g., the DDI number has not been assigned to ring anywhere) during Day2 mode.

FF1 0 02 0022 Hold (0 or 1) Hold

0=Busy signal is returned to caller. (default)
1=Handled as a multiple-incoming call (rings at extension with an FF-key line appearance for the DDI exchange line).

FF1 System

Notes:

Related Programming:

DDI/CLI Dial Table ("A" Side) (pg. 1-184)	**FF1 4 02 (000-575) (1-6) Hold (0-9999 or 1-72) Hold**
DDI/CLI Dial Table ("B" Side) (pg. 1-187)	**FF1 4 04 (000-575) (1-6) Hold (0-9999 or 1-72) Hold**
DDI Dialling to ISDN "S" Point (pg. 1-189)	**FF1 4 05 (0001-0192) Hold (0-9999) Hold**

DDI to Incorrect Number (Night)

0023 :0
DDI Error Night

(all CPCs) - Version 2.0 or higher

Set system action for incorrect DDI calls (e.g., the DDI number has not been assigned to ring anywhere) during Night mode.

FF1 0 02 0023 Hold (0 or 1) Hold

0=Busy signal is returned to caller. (default)
1=Handled as a multiple-incoming call (rings at extension with an FF-key line appearance for the DDI exchange line).

Notes:

Related Programming:

DDI/CLI Dial Table ("A" Side) (pg. 1-184)	**FF1 4 02 (000-575) (1-6) Hold (0-9999 or 1-72) Hold**
DDI/CLI Dial Table ("B" Side) (pg. 1-187)	**FF1 4 04 (000-575) (1-6) Hold (0-9999 or 1-72) Hold**
DDI Dialling to ISDN "S" Point (pg. 1-189)	**FF1 4 05 (0001-0192) Hold (0-9999) Hold**

FF1 0 03: Extension COS Definitions

NOTE: *Based on their initial default values, Extension Class of Service (COS) No. 15 (setting "14" in the addresses below) is intended for Built-In Voice Mail and Built-In ACD ports. Extension COS No. 16 (setting "15") is intended for Attendant phones.*

If the default setting for any COS is different from the normal default, it will be indicated in the address box under "EXCEPTIONS".

When you enter the address number 00-15 for the desired COS No. 01-16, the actual COS No. (01-16) will appear on the phone's display.

By default, all extensions are assigned to Extension COS No. 1 (see FF3 0 BSSC 07 on pg. 3-26).

Table 1-2. Extension COS addresses and defaults

FF1 0 03 (00-15) 01 Hold (0 or 1) Hold	Extension COS: Intercom Calling Type	0 (Tone)	pg. 1-37
FF1 0 03 (00-15) 02 Hold (0 or 1) Hold	Extension COS: Onhook Transfer at Ringback	0 (Allowed)	pg. 1-38
FF1 0 03 (00-15) 03 Hold (0 or 1) Hold	Extension COS: Onhook Transfer at Talk	0 (Allowed)	pg. 1-39
FF1 0 03 (00-15) 04 Hold (0 or 1) Hold	Extension COS: Onhook Transfer at Camp-On	0 (Allowed)	pg. 1-40
FF1 0 03 (00-15) 05 Hold (0 or 1) Hold	Extension COS: Exclusive Hold for Non-Appearing CO	0 (System Hold) *COS 15: 1 (Exclusv.Hold)*	pg. 1-41
FF1 0 03 (00-15) 06 Hold (0 or 1) Hold	Extension COS: Exclusive Hold on SLTs	0 (System Hold) *COS 15: 1 (Exclusv.Hold)*	pg. 1-42
FF1 0 03 (00-15) 07 Hold (0 or 1) Hold	Extension COS: Brokers Hold on SLTs	1 (Broker's Hold)	pg. 1-43
FF1 0 03 (00-15) 08 Hold (0 or 1) Hold	Extension COS: Hookflash Control on SLTs	0 (Allowed)	pg. 1-44
FF1 0 03 (00-15) 09 Hold (0 or 1) Hold	Extension COS: SSD Assignment	1 (Not Allowed) *COS 16: 0 (Allowed)*	pg. 1-45
FF1 0 03 (00-15) 10 Hold (0 or 1) Hold	Extension COS: SSD Assignment to MCO Tenant Groups	1 (Not Allowed) *COS 16: 0 (Allowed)*	pg. 1-46
FF1 0 03 (00-15) 11 Hold (0 or 1) Hold	Extension COS: SSD Dialling	0 (Allowed)	pg. 1-47
FF1 0 03 (00-15) 12 Hold (0 or 1) Hold	Extension COS: Intercom Redialling	1 (Not Allowed)	pg. 1-48
FF1 0 03 (00-15) 13 Hold (0 or 1) Hold	Extension COS: Direct Exchange-Line Access	0 (Allowed)	pg. 1-49
FF1 0 03 (00-15) 14 Hold (0 or 1) Hold	Extension COS: MCO Incoming Call Answer	0 (Allowed)	pg. 1-50
FF1 0 03 (00-15) 15 Hold (0 or 1) Hold	Extension COS: Paging	0 (Allowed)	pg. 1-51
FF1 0 03 (00-15) 16 Hold (0 or 1) Hold	Extension COS: Auto Repeat Dial	0 (Allowed)	pg. 1-52
FF1 0 03 (00-15) 17 Hold (0 or 1) Hold	Extension COS: DND Set/Clear	0 (Allowed) *COS 15: 1 (Not Allowed)*	pg. 1-53
FF1 0 03 (00-15) 18 Hold (0 or 1) Hold	Extension COS: DND Set/Clear (Other)	1 (Not Allowed) *COS 16: 0 (Allowed)*	pg. 1-54
FF1 0 03 (00-15) 19 Hold (0 or 1) Hold	Extension COS: Call Forward-All Calls	0 (Allowed) *COS 15: 1 (Not Allowed)*	pg. 1-55
FF1 0 03 (00-15) 20 Hold (0 or 1) Hold	Extension COS: Call Forward-No Answer	0 (Allowed) *COS 15: 1 (Not Allowed)*	pg. 1-56

FF1 0 03 (00-15) 21 Hold (0 or 1) Hold	Extension COS: Call Forward-Busy	0 (Allowed) *COS 15: 1 (Not Allowed)*	pg. 1-57
FF1 0 03 (00-15) 22 Hold (0 or 1) Hold	Extension COS: Call Forward/Other	1 (Not Allowed) *COS 16: 0 (Allowed)*	pg. 1-58
FF1 0 03 (00-15) 23 Hold (0 or 1) Hold	Extension COS: User Log-In	1 (Not Allowed) *COS 16: 0 (Allowed)*	pg. 1-59
FF1 0 03 (00-15) 24 Hold (0 or 1) Hold	Extension COS: Priority Message-Waiting Send (VM)	1 (Not Allowed) *COS 15: 0 (Allowed)*	pg. 1-60
FF1 0 03 (00-15) 25 Hold (0 or 1) Hold	Extension COS: Message-Waiting Send	0 (Allowed) *COS 15: 1 (Not Allowed)*	pg. 1-61
FF1 0 03 (00-15) 26 Hold (0 or 1) Hold	Extension COS: System Mode Switch	1 (Not Allowed) *COS 15 and 16: 0 (Allowed)*	pg. 1-62
FF1 0 03 (00-15) 27 Hold (0 or 1) Hold	Extension COS: Busy Override Send	0 (Allowed)	pg. 1-63
FF1 0 03 (00-15) 28 Hold (0 or 1) Hold	Extension COS: Manual Camp-On Send	0 (Allowed)	pg. 1-64
FF1 0 03 (00-15) 29 Hold (0 or 1) Hold	Extension COS: Manual Camp-On Receive	0 (Allowed) *COS 15: 1 (Not Allowed)*	pg. 1-65
FF1 0 03 (00-15) 30 Hold (0 or 1) Hold	Extension COS: Callback Request Send	0 (Allowed)	pg. 1-66
FF1 0 03 (00-15) 31 Hold (0 or 1) Hold	Extension COS: Callback Request Receive	0 (Allowed)	pg. 1-67
FF1 0 03 (00-15) 32 Hold (0 or 1) Hold	Extension COS: Exchange Line Queuing	0 (Allowed)	pg. 1-68
FF1 0 03 (00-15) 33 Hold (0 or 1) Hold	Extension COS: Manual DND Override Send	1 (Not Allowed) *COS 16: 0 (Allowed)*	pg. 1-69
FF1 0 03 (00-15) 34 Hold (0 or 1) Hold	Extension COS: Forced DND Override	1 (Not Allowed)	pg. 1-70
FF1 0 03 (00-15) 35 Hold (0 or 1) Hold	Extension COS: 8-Party Conference	0 (Allowed) *COS 15: 1 (Not Allowed)*	pg. 1-71
FF1 0 03 (00-15) 36 Hold (0 or 1) Hold	Extension COS: Voice Call Send	0 (Allowed)	pg. 1-72
FF1 0 03 (00-15) 37 Hold (0 or 1) Hold	Extension COS: Voice Call Receive	0 (Allowed) *COS 15: 1 (Not Allowed)*	pg. 1-73
FF1 0 03 (00-15) 38 Hold (0 or 1) Hold	Extension COS: Dial Tone Stop	1 (Receive int.dial tone)	pg. 1-74
FF1 0 03 (00-15) 39 Hold (0 or 1) Hold	Extension COS: Dial Tone Pre-Pause Check	1 (Check/send re-order tone) *COS 15 and 16: 0 (No Check)*	pg. 1-75
FF1 0 03 (00-15) 40 Hold (0 or 1) Hold	Extension COS: Long Talk Alarm	1 (Enabled)	pg. 1-76
FF1 0 03 (00-15) 41 Hold (0 or 1) Hold	Extension COS: Recall Timer Apply	0 (Ext. Recall) *COS 16: 1 (Att. Recall)*	pg. 1-77
FF1 0 03 (00-15) 42 Hold (0 or 1) Hold	Extension COS: Forced ARS	0 (Disabled)	pg. 1-78
FF1 0 03 (00-15) 43 Hold (0 or 1) Hold	Extension COS: API Event Reporting	1 (Enabled)	pg. 1-79
FF1 0 03 (00-15) 44 Hold (0 or 1) Hold	Extension COS: Call Forward-Outside	0 (Allowed)	pg. 1-80
FF1 0 03 (00-15) 45 Hold (0 or 1) Hold	Extension COS: Onhook Exch.Line-to-Exch.Line Transfer	1 (Not Allowed)	pg. 1-81
FF1 0 03 (00-15) 46 Hold (0 or 1) Hold	Extension COS: Station Call Park Answer	0 (Allowed)	pg. 1-82
FF1 0 03 (00-15) 47 Hold (0 or 1) Hold	Extension COS: Station Call Park Transfer	0 (Allowed)	pg. 1-83
FF1 0 03 (00-15) 48 Hold (0 or 1) Hold	Extension COS: OHVA	0 (Allowed)	pg. 1-84
FF1 0 03 (00-15) 49 Hold (0 or 1) Hold	Extension COS: OHVA Answer	0 (Allowed)	pg. 1-85
FF1 0 03 (00-15) 50 Hold (0 or 1) Hold	Extension COS: Call-Waiting Answer at HOLD	0 (Allowed)	pg. 1-86
FF1 0 03 (00-15) 51 Hold (0 or 1) Hold	Extension COS: On-Hook Park	0 (Allowed)	pg. 1-87

Extension COS: Intercom Calling Type

0001 :0
NN:EXT Call Type
(NN=COS 01-16)

(all CPCs) - Version 2.0 or higher

Set the initial type of intercom calling sent by extensions in this Class of Service (COS).

FF1 0 03 (00-15) 01 Hold (0 or 1) Hold

(00-15): Extension COS Nos. 1-16	
00=COS #1	**08**=COS #9
01=COS #2	**09**=COS #10
02=COS #3	**10**=COS #11
03=COS #4	**11**=COS #12
04=COS #5	**12**=COS #13
05=COS #6	**13**=COS #14
06=COS #7	**14**=COS #15 (for VM)
07=COS #8	**15**=COS #16 (for Att.)

0=Tone calling (default)
1=Voice calling

DEFAULT EXCEPTIONS:

for COS Nos.	Default	Applies to these countries
COS #1-14, 16 (addresses 00-13, 15)	**1=Voice calling**	USA only

FF1 System

Notes:

Tone Calling: The called extension answers by picking up the handset or pressing ON/OFF.

Voice Calling: The called extension can hear the caller on speaker; both parties can begin talking immediately (no action necessary).

The end-user can toggle between Tone and Voice by dialling "1" during the call.

If this address is set to "Voice calling," but **Extension COS: Voice Call Send** is disabled, the phone will automatically switch to Tone calling when the user places an intercom call.

If this address is set to "Tone calling," the **Extension COS: Voice Call Send** setting has no effect.

(all CPCs - Version 2.5 and higher) During a Voice call, a Message-Waiting signal can be sent to the called (busy) extension simply by dialling "4" (don't need to switch to Tone calling first). The Message-Waiting will be cancelled by either extension placing a second Voice call to the other.

Related Programming:

Extension COS: Voice Call Send (pg. 1-72) FF1 0 03 (00-15) 36 Hold (0 or 1) Hold
Extension COS: Voice Call Receive (pg. 1-73) FF1 0 03 (00-15) 37 Hold (0 or 1) Hold
Extension COS Assignment (pg. 3-26) for digital keyphones and SLTs FF3 0 BSSC 07 Hold (1-16) Hold
Extension COS Assignment (pg. 3-38) for S-point ISDN extension ports FF3 1 BSSC 06 Hold (1-16) Hold
Extension COS Assignment (pg. 3-44) for Virtual Ports FF3 2 (001-576) 03 Hold (1-16) Hold
Extension COS Assignment (pg. 3-46) for RAI Ports FF3 3 02 Hold (1-16) Hold

Extension COS: Onhook Transfer at Ringback

0002 :0
NN:ON-HK RBT
(NN=COS 01-16)

(all CPCs) - Version 2.0 or higher

Allow/Restrict the ability of extensions in this Class of Service (COS) to perform Onhook Transfer during ringback tone, before the called party answers.

FF1 0 03 (00-15) 02 Hold (0 or 1) Hold

FF1 System

(00-15): Extension COS Nos. 1-16	
00=COS #1	**08**=COS #9
01=COS #2	**09**=COS #10
02=COS #3	**10**=COS #11
03=COS #4	**11**=COS #12
04=COS #5	**12**=COS #13
05=COS #6	**13**=COS #14
06=COS #7	**14**=COS #15 (for VM)
07=COS #8	**15**=COS #16 (for Att.)

0=Allow Onhook Transfer at ringback. (default)
1=Do not allow Onhook Transfer at ringback.

Notes:

Onhook Transfer at Ringback: (also called "Blind Transfer") Put call on hold, dial the extension to transfer to, and hang up before the called party answers.

If **Onhook Transfer** is disabled, the user must press PROG or RELEASE before hanging up, in order to transfer the call.

An SLT requires **Onhook Transfer** to be enabled (set to "0").

Related Programming:

Extension COS: Onhook Exch.Line-to-Exch.Line Transfer (pg. 1-81) FF1 0 03 (00-15) 45 Hold (0 or 1) Hold

Extension COS: Onhook Transfer at Talk

0003 :0
NN:ON-HK Talk
(NN=COS 01-16)

(all CPCs) - Version 2.0 or higher

Allow/Restrict the ability of extensions in this Class of Service (COS) to perform Onhook Transfer after the called party answers.

FF1 0 03 (00-15) 03 Hold (0 or 1) Hold

(00-15): Extension COS Nos. 1-16	
00=COS #1	**08**=COS #9
01=COS #2	**09**=COS #10
02=COS #3	**10**=COS #11
03=COS #4	**11**=COS #12
04=COS #5	**12**=COS #13
05=COS #6	**13**=COS #14
06=COS #7	**14**=COS #15 (for VM)
07=COS #8	**15**=COS #16 (for Att.)

0=Allow Onhook Transfer at talk. (default)
1=Do not allow Onhook Transfer at talk.

FF1 System

Notes:

Onhook Transfer at Talk: (also called "Supervised Transfer") Put call on hold, dial the extension to transfer to, wait for someone to answer, then hang up. The called extension will automatically connect to the call.

If **Onhook Transfer** is disabled, the user must press PROG or RELEASE before hanging up, in order to transfer the call.

(all CPCs - Version 2.5 and higher) ***Exception:*** This address does not apply to VM ports. Hanging up after dialling the VM port will automatically send the call to Voice Mail. See **SLT Voice Mail Connection** on pg. 3-11 to define the extension as a VM port.

An SLT requires **Onhook Transfer** to be enabled (set to "0").

Related Programming:

Extension COS: Onhook Exch.Line-to-Exch.Line Transfer (pg. 1-81) FF1 0 03 (00-15) 45 Hold (0 or 1) Hold
SLT Voice Mail Connection (pg. 3-11) FF3 0 BSSC 04 06 Hold (0 or 1) Hold

Extension COS: Onhook Transfer at Camp-On

0004 :0
NN:ON-HK Camp On
(NN=COS 01-16)

(all CPCs) - Version 2.0 or higher

Allow/Restrict the ability of extensions in this Class of Service (COS) to perform Onhook Transfer by a camp-on to the called party.

FF1 0 03 (00-15) 04 Hold (0 or 1) Hold

FF1
System

(00-15): Extension COS Nos. 1-16	
00=COS #1	**08**=COS #9
01=COS #2	**09**=COS #10
02=COS #3	**10**=COS #11
03=COS #4	**11**=COS #12
04=COS #5	**12**=COS #13
05=COS #6	**13**=COS #14
06=COS #7	**14**=COS #15 (for VM)
07=COS #8	**15**=COS #16 (for Att.)

0=Allow Onhook Transfer at camp-on. (default)
1=Do not allow Onhook Transfer at camp-on.

DEFAULT EXCEPTIONS:

for COS Nos.	Default	Applies to these countries
COS #4-7 (addresses 03-06)	**1=Do not allow**	Taiwan, Indonesia, Malaysia

Notes:

Onhook Transfer at Camp-On: Put call on hold, dial the extension to transfer to (extension is busy), dial the Camp-On code, then hang up. When the extension becomes free, the call will be automatically transferred.

If **Onhook Transfer** is disabled, the user must press PROG or RELEASE before hanging up, in order to transfer the call.

An SLT requires **Onhook Transfer** to be enabled (set to "0").

Related Programming:

Extension COS: Manual Camp-On Send (pg. 1-64) FF1 0 03 (00-15) 28 Hold (0 or 1) Hold
Extension COS: Onhook Exch.Line-to-Exch.Line Transfer (pg. 1-81) FF1 0 03 (00-15) 45 Hold (0 or 1) Hold

Extension COS: Exclusive Hold for Non-Appearing CO

0005 :0
NN:Hold Type-KTL
(NN=COS 01-16)

(all CPCs) - Version 2.0 or higher

Set call holding type when the HOLD key is pressed during a non-appearing exchange line call, on digital keyphone extensions in this Class of Service (COS).

FF1 0 03 (00-15) 05 Hold (0 or 1) Hold

(00-15): Extension COS Nos. 1-16	
00=COS #1	**08**=COS #9
01=COS #2	**09**=COS #10
02=COS #3	**10**=COS #11
03=COS #4	**11**=COS #12
04=COS #5	**12**=COS #13
05=COS #6	**13**=COS #14
06=COS #7	**14**=COS #15 (for VM)
07=COS #8	**15**=COS #16 (for Att.)

0=System Hold (default)
1=Exclusive Hold

DEFAULT EXCEPTIONS:

for COS Nos.	Default	Applies to these countries
COS #15 (address 14)	**1=Exclusive Hold**	all countries

Notes:

System Hold: Any extension can retrieve the held call.

Exclusive Hold: Only the extension that placed the call on hold, can retrieve it.

This address applies only to non-appearing exchange line calls (not on an FF-key). For Exclusive Hold control on an exchange line FF-key, see **Exclusive Hold (Exchange Line Key)** FF1 0 01 0006 Hold (0 or 1) Hold.

Related Programming:

Extension COS: Exclusive Hold on SLTs

0006 :0
NN:Hold Type SLT

(NN=COS 01-16)

(all CPCs) - Version 2.0 or higher

Set call holding type when a hookflash (to place a call on hold) is performed on SLT extensions in this Class of Service (COS).

FF1 0 03 (00-15) 06 Hold (0 or 1) Hold

FF1
System

(00-15): Extension COS Nos. 1-16	
00=COS #1	**08**=COS #9
01=COS #2	**09**=COS #10
02=COS #3	**10**=COS #11
03=COS #4	**11**=COS #12
04=COS #5	**12**=COS #13
05=COS #6	**13**=COS #14
06=COS #7	**14**=COS #15 (for VM)
07=COS #8	**15**=COS #16 (for Att.)

0=System Hold (default)
1=Exclusive Hold

DEFAULT EXCEPTIONS:

for COS Nos.	Default	Applies to these countries
COS #15 (address 14)	**1=Exclusive Hold**	all countries

Notes:

System Hold: Any extension can retrieve the held call (LED flashes green on other phones with that line appearance).

Exclusive Hold: Only the extension that placed the call on hold, can retrieve it (LED solid red on other phones).

Related Programming:

Extension COS: Hookflash Control on SLTs (pg. 1-44) FF1 0 03 (00-15) 08 Hold (0 or 1) Hold

Extension COS: Brokers Hold on SLTs

0007 :1
NN:Broker's Hold
(NN=COS 01-16)

(all CPCs) - Version 2.0 or higher

Set call holding type when a second hookflash is performed on SLT extensions in this Class of Service (COS).

FF1 0 03 (00-15) 07 Hold (0 or 1) Hold

(00-15): Extension COS Nos. 1-16	
00=COS #1	**08**=COS #9
01=COS #2	**09**=COS #10
02=COS #3	**10**=COS #11
03=COS #4	**11**=COS #12
04=COS #5	**12**=COS #13
05=COS #6	**13**=COS #14
06=COS #7	**14**=COS #15 (for VM)
07=COS #8	**15**=COS #16 (for Att.)

0=3-Party Conference
1=Brokers Hold (default)

FF1 System

Notes:

3-Party Conference: First hookflash places call on hold. Then call the 3rd party, and hookflash again to connect all three parties.

(all CPCs - Version 2.5 and higher) To drop out of a 3-Party Conference, simply hang up. To release Conference Member #1, press PROG then 1. To release Conference Member #2, press PROG then 2.

Brokers Hold: Hookflash toggles between two calls, automatically placing the current call on hold and connecting to the other.

Related Programming:

Extension COS: Hookflash Control on SLTs (pg. 1-44) FF1 0 03 (00-15) 08 Hold (0 or 1) Hold
SLT Hookflash (pg. 3-5) FF3 0 BSSC 03 0 Hold (0 or 1) Hold

Extension COS: Hookflash Control on SLTs

0008 :0
NN:SLT Hooking
(NN=COS 01-16)

(all CPCs) - Version 2.0 or higher

Allow/Restrict hookflash on SLT extensions in this Class of Service (COS).

FF1 0 03 (00-15) 08 Hold (0 or 1) Hold

FF1
System

(00-15): Extension COS Nos. 1-16	
00=COS #1	**08**=COS #9
01=COS #2	**09**=COS #10
02=COS #3	**10**=COS #11
03=COS #4	**11**=COS #12
04=COS #5	**12**=COS #13
05=COS #6	**13**=COS #14
06=COS #7	**14**=COS #15 (for VM)
07=COS #8	**15**=COS #16 (for Att.)

0=Allowed/System recognises hookflash. (default)
1=Not Allowed/System ignores hookflash.

Notes:

Related Programming:

Extension COS: SSD Assignment

0009 :1
NN:SSD Assign

(NN=COS 01-16)

(all CPCs) - Version 2.0 or higher

Allow/Restrict the ability of extensions in this Class of Service (COS) to assign System Speed Dial (SSD) numbers.

FF1 0 03 (00-15) 09 Hold (0 or 1) Hold

(00-15): Extension COS Nos. 1-16	
00=COS #1	**08**=COS #9
01=COS #2	**09**=COS #10
02=COS #3	**10**=COS #11
03=COS #4	**11**=COS #12
04=COS #5	**12**=COS #13
05=COS #6	**13**=COS #14
06=COS #7	**14**=COS #15 (for VM)
07=COS #8	**15**=COS #16 (for Att.)

0=Allow SSD assignment.
1=Do not allow SSD assignment. (default)

DEFAULT EXCEPTIONS:

for COS Nos.	Default	Applies to these countries
COS #16 (address 15)	**0=Allow**	all countries

FF1 System

Notes:

Related Programming:

SSD Numbers (pg. 8-46) FF8 1 02 Hold 0 Hold Hold (00/0-79/9) Hold FL/R (up to 24 char.) Hold

Extension COS: SSD Assignment to MCO Tenant Groups

0010 :1
NN:G.SSD Assign
(NN=COS 01-16)

(all CPCs) - Version 2.0 or higher

Allow/Restrict the ability of extensions in this Class of Service (COS) to assign System Speed Dial numbers to MCO Tenant Groups.

FF1 0 03 (00-15) 10 Hold (0 or 1) Hold

FF1 System

(00-15): Extension COS Nos. 1-16	
00=COS #1	**08**=COS #9
01=COS #2	**09**=COS #10
02=COS #3	**10**=COS #11
03=COS #4	**11**=COS #12
04=COS #5	**12**=COS #13
05=COS #6	**13**=COS #14
06=COS #7	**14**=COS #15 (for VM)
07=COS #8	**15**=COS #16 (for Att.)

0=Allow SSD assignment to MCO Tenant Groups.

1=Do not allow SSD assignment to MCO Tenant Groups. (default)

DEFAULT EXCEPTIONS:

for COS Nos.	Default	Applies to these countries
COS #16 (address 15)	**0=Allow**	all countries

Notes:

Related Programming:

SSD Assignment to Groups (pg. 1-23) FF1 0 02 0003 Hold (0 or 1) Hold
SSD Block Assignment to MCO Tenant Groups (pg. 1-113) FF1 0 15 (0001-0072) Hold (0-72) Hold

Extension COS: SSD Dialling

(all CPCs) - Version 2.0 or higher

0011 :0
NN:SSD TRS
(NN=COS 01-16)

Allow/Restrict the ability of extensions in this Class of Service (COS) to dial System Speed Dial numbers.

FF1 0 03 (00-15) 11 Hold (0 or 1) Hold

(00-15): Extension COS Nos. 1-16	
00=COS #1	**08**=COS #9
01=COS #2	**09**=COS #10
02=COS #3	**10**=COS #11
03=COS #4	**11**=COS #12
04=COS #5	**12**=COS #13
05=COS #6	**13**=COS #14
06=COS #7	**14**=COS #15 (for VM)
07=COS #8	**15**=COS #16 (for Att.)

0=Allow SSD dialling. (default)
1=Do not allow SSD dialling.

FF1 System

Notes:

Related Programming:

SSD Block Assignment to MCO Tenant Groups (pg. 1-113) FF1 0 15 (0001-0072) Hold (0-72) Hold
SSD Common Block for MCO Tenant Groups (pg. 1-114) FF1 0 16 0001 Hold (0-800) Hold
SSD Block Table (pg. 1-114) FF1 0 17 (0001-0144) Hold (0-799 or 0-800) Hold

Extension COS: Intercom Redialling

0012 :1
NN:Redial Type

(NN=COS 01-16)

(all CPCs) - Version 2.0 or higher

Allow/Restrict the ability of extensions in this Class of Service (COS) to redial intercom calls.

FF1 0 03 (00-15) 12 Hold (0 or 1) Hold

FF1
System

(00-15): Extension COS Nos. 1-16	
00=COS #1	**08**=COS #9
01=COS #2	**09**=COS #10
02=COS #3	**10**=COS #11
03=COS #4	**11**=COS #12
04=COS #5	**12**=COS #13
05=COS #6	**13**=COS #14
06=COS #7	**14**=COS #15 (for VM)
07=COS #8	**15**=COS #16 (for Att.)

0=Allow intercom and exchange-line redialling.

1=Do not allow intercom redialling. (default)
Only outside exchange-line calls can be redialled.

Notes:

Related Programming:

Extension COS: Direct Exchange-Line Access

0013 :0
NN:Designed CO
(NN=COS 01-16)

(all CPCs) - Version 2.0 or higher

Allow/Restrict the ability of extensions in this Class of Service (COS) to select a specific exchange line for an outgoing call.

FF1 0 03 (00-15) 13 Hold (0 or 1) Hold

(00-15): Extension COS Nos. 1-16	
00=COS #1	**08**=COS #9
01=COS #2	**09**=COS #10
02=COS #3	**10**=COS #11
03=COS #4	**11**=COS #12
04=COS #5	**12**=COS #13
05=COS #6	**13**=COS #14
06=COS #7	**14**=COS #15 (for VM)
07=COS #8	**15**=COS #16 (for Att.)

0=Allow direct exchange-line access. (default)

1=Do not allow direct access; must use MCO exchange-line group.

DEFAULT EXCEPTIONS:

for COS Nos.	Default	Applies to these countries
COS #7-8 (addresses 06-07)	**1=Do not allow**	Taiwan, Indonesia, Malaysia

FF1 System

Notes:

If this **Direct Exchange Line Access** is set to "1" (Do not allow), use the MCO Outgoing Group (press the MCO key) to seize an exchange line.

Related Programming:

Tenant Group MCO Access: Outbound Exchange-Line Groups (pg. 1-177) FF1 3 01 (0001-0360) Hold (0-99 or 0-72) Hold

Extension COS: MCO Incoming Call Answer

0014 :0
NN:DESI MCO ANS

(all CPCs) - Version 2.0 or higher

(NN=COS 01-16)

Allow/Restrict the ability to pick up incoming calls in MCO (Incoming) exchange line groups that are ringing on other extensions besides those in this Class of Service (COS).

FF1 0 03 (00-15) 14 Hold (0 or 1) Hold

FF1
System

(00-15): Extension COS Nos. 1-16	
00=COS #1	**08**=COS #9
01=COS #2	**09**=COS #10
02=COS #3	**10**=COS #11
03=COS #4	**11**=COS #12
04=COS #5	**12**=COS #13
05=COS #6	**13**=COS #14
06=COS #7	**14**=COS #15 (for VM)
07=COS #8	**15**=COS #16 (for Att.)

0=Allow call pickup in other MCO exchange-line groups. (default)

1=Do not allow call pickup in other MCO exchange-line groups.

Notes:

Related Programming:

MCO Inbound Exchange-Line Group Members (pg. 5-21) **FF5 3 (01-99) (001-576) Hold (1-576) Hold**

Extension COS: Paging

0015 :0
NN:Paging
(NN=COS 01-16)

(all CPCs) - Version 2.0 or higher

Allow/Restrict the ability of extensions in this Class of Service (COS) to issue a page.

FF1 0 03 (00-15) 15 Hold (0 or 1) Hold

(00-15): Extension COS Nos. 1-16	
00=COS #1	**08**=COS #9
01=COS #2	**09**=COS #10
02=COS #3	**10**=COS #11
03=COS #4	**11**=COS #12
04=COS #5	**12**=COS #13
05=COS #6	**13**=COS #14
06=COS #7	**14**=COS #15 (for VM)
07=COS #8	**15**=COS #16 (for Att.)

0=Allow paging. (default)
1=Do not allow paging.

FF1 System

Notes:

(all CPCs - Version 2.5 and higher) Phones set to DND (Do-Not-Disturb) will ***not*** hear pages. However, phones set to Call Forward-All ***will*** hear pages.

Related Programming:

Splash Tone: Internal Paging (pg. 1-9) FF1 0 01 0002 Hold (0 or 1) Hold
Page Override (pg. 1-28) FF1 0 02 0012 Hold (0 or 1) Hold
Exchange Line COS: Paging on DISA/Private Line Call (pg. 1-92) FF1 0 04 (00-15) 05 Hold (0 or 1) Hold
FF5 4: Paging Groups (pg. 5-22)

Extension COS: Auto Repeat Dial

0016 :0
NN:Auto REP Dial

(all CPCs) - Version 2.0 or higher

(NN=COS 01-16)

Allow/Restrict Auto Repeat Dial on digital extensions in this Class of Service (COS).

FF1 0 03 (00-15) 16 Hold (0 or 1) Hold

FF1
System

(00-15): Extension COS Nos. 1-16	
00=COS #1	**08**=COS #9
01=COS #2	**09**=COS #10
02=COS #3	**10**=COS #11
03=COS #4	**11**=COS #12
04=COS #5	**12**=COS #13
05=COS #6	**13**=COS #14
06=COS #7	**14**=COS #15 (for VM)
07=COS #8	**15**=COS #16 (for Att.)

0=Allow Auto Repeat Dial. (default)
1=Do not allow Auto Repeat Dial.

Notes:

Auto-Repeat Dial requires a digital key phone.

Auto Repeat Dial: Place a call to a busy party. Stay in monitor mode and press REDIAL. System automatically redials the number, and repeats redialling until ringback is heard or 14 auto-repeat attempts have been made.

Related Programming:

Extension COS: DND Set/Clear

0017 :0
NN:DND

(NN=COS 01-16)

(all CPCs) - Version 2.0 or higher

Allow/Restrict the extension's ability to set or clear Do-Not-Disturb (DND) on itself.

FF1 0 03 (00-15) 17 Hold (0 or 1) Hold

(00-15): Extension COS Nos. 1-16	
00=COS #1	**08**=COS #9
01=COS #2	**09**=COS #10
02=COS #3	**10**=COS #11
03=COS #4	**11**=COS #12
04=COS #5	**12**=COS #13
05=COS #6	**13**=COS #14
06=COS #7	**14**=COS #15 (for VM)
07=COS #8	**15**=COS #16 (for Att.)

0=Allow DND Set/Clear. (default)
1=Do not allow DND Set/Clear.

DEFAULT EXCEPTIONS:

for COS Nos.	Default	Applies to these countries
COS #4-7, 9 (addresses 03-06, 08)	**1=Do not allow**	Taiwan, Indonesia, Malaysia
COS #15 (address 14)	**1=Do not allow**	all countries

FF1 System

Notes:

(all CPCs - Version 2.5 and higher) Phones set to DND (Do-Not-Disturb) will ***not*** hear pages. However, phones set to Call Forward-All ***will*** hear pages.

Related Programming:

Extension COS: DND Set/Clear (Other)

0018 :1
NN:DND via Other
(NN=COS 01-16)

(all CPCs) - Version 2.0 or higher

Allow/Restrict the extension's ability to set other phones to Do-Not-Disturb.

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FF1 0 03 (00-15) 18 Hold (0 or 1) Hold

FF1
System

(00-15): Extension COS Nos. 1-16	
00=COS #1	**08**=COS #9
01=COS #2	**09**=COS #10
02=COS #3	**10**=COS #11
03=COS #4	**11**=COS #12
04=COS #5	**12**=COS #13
05=COS #6	**13**=COS #14
06=COS #7	**14**=COS #15 (for VM)
07=COS #8	**15**=COS #16 (for Att.)

0=Allow DND Set/Clear on other extensions.

1=Do not allow DND Set/Clear on other extensions. (default)

DEFAULT EXCEPTIONS:

for COS Nos.	Default	Applies to these countries
COS #2-3 (addresses 01-02)	**0=Allow**	Taiwan, Indonesia, Malaysia
COS #16 (address 15)	**0=Allow**	all countries

Notes:

(all CPCs - Version 2.5 and higher) Phones set to DND will ***not*** hear pages. However, phones set to Call Forward-All ***will*** hear pages.

Related Programming:

Extension COS: Call Forward-All Calls

0019 :0
NN:CFWD-All

(NN=COS 01-16)

(all CPCs) - Version 2.0 or higher

Allow/Restrict the ability of extensions in this Class of Service (COS) to set or clear Call Forward-All Calls.

FF1 0 03 (00-15) 19 Hold (0 or 1) Hold

(00-15): Extension COS Nos. 1-16	
00=COS #1	**08**=COS #9
01=COS #2	**09**=COS #10
02=COS #3	**10**=COS #11
03=COS #4	**11**=COS #12
04=COS #5	**12**=COS #13
05=COS #6	**13**=COS #14
06=COS #7	**14**=COS #15 (for VM)
07=COS #8	**15**=COS #16 (for Att.)

0=Allow Call Forward-All Calls. (default)
1=Do not allow Call Forward-All Calls.

DEFAULT EXCEPTIONS:

for COS Nos.	Default	Applies to these countries
COS #9 (address 08)	**1=Do not allow**	Taiwan, Indonesia, Malaysia
COS #15 (address 14)	**1=Do not allow**	all countries

Notes:

(all CPCs - Version 2.5 and higher) Phones set to Call Forward-All ***will*** hear pages.

Related Programming:

Extension COS: Call Forward-No Answer

0020 :0
NN:CFWD-No ANS
(NN=COS 01-16)

(all CPCs) - Version 2.0 or higher

Allow/Restrict the ability of extensions in this Class of Service (COS) to set or clear Call Forward-No Answer.

FF1 0 03 (00-15) 20 Hold (0 or 1) Hold

FF1
System

(00-15): Extension COS Nos. 1-16	
00=COS #1	**08**=COS #9
01=COS #2	**09**=COS #10
02=COS #3	**10**=COS #11
03=COS #4	**11**=COS #12
04=COS #5	**12**=COS #13
05=COS #6	**13**=COS #14
06=COS #7	**14**=COS #15 (for VM)
07=COS #8	**15**=COS #16 (for Att.)

0=Allow Call Forward-No Answer. (default)
1=Do not allow Call Forward-No Answer.

DEFAULT EXCEPTIONS:

for COS Nos.	Default	Applies to these countries
COS #9 (address 08)	**1=Do not allow**	Taiwan, Indonesia, Malaysia
COS #15 (address 14)	**1=Do not allow**	all countries

Notes:

Related Programming:

Extension COS: Call Forward-Busy

0021 :0
NN:CFWD-Busy
(NN=COS 01-16)

(all CPCs) - Version 2.0 or higher

Allow/Restrict the ability of extensions in this Class of Service (COS) to set or clear Call Forward-Busy.

FF1 0 03 (00-15) 21 Hold (0 or 1) Hold

(00-15): Extension COS Nos. 1-16	
00=COS #1	**08**=COS #9
01=COS #2	**09**=COS #10
02=COS #3	**10**=COS #11
03=COS #4	**11**=COS #12
04=COS #5	**12**=COS #13
05=COS #6	**13**=COS #14
06=COS #7	**14**=COS #15 (for VM)
07=COS #8	**15**=COS #16 (for Att.)

0=Allow Call Forward-Busy. (default)
1=Do not allow Call Forward-Busy.

DEFAULT EXCEPTIONS:

for COS Nos.	Default	Applies to these countries
COS #9 (address 08)	**1=Do not allow**	Taiwan, Indonesia, Malaysia
COS #15 (address 14)	**1=Do not allow**	all countries

FF1 System

Notes:

Related Programming:

Extension COS: Call Forward/Other

0022 :1
NN:CF via Other

(NN=COS 01-16)

(all CPCs) - Version 2.0 or higher

Allow/Restrict the ability of extensions in this Class of Service (COS) to set or clear Call Forwarding (Busy, No-Answer, and All) on other extensions.

FF1 0 03 (00-15) 22 Hold (0 or 1) Hold

FF1
System

(00-15): Extension COS Nos. 1-16	
00=COS #1	**08**=COS #9
01=COS #2	**09**=COS #10
02=COS #3	**10**=COS #11
03=COS #4	**11**=COS #12
04=COS #5	**12**=COS #13
05=COS #6	**13**=COS #14
06=COS #7	**14**=COS #15 (for VM)
07=COS #8	**15**=COS #16 (for Att.)

0=Allow Call Forwarding of other extensions.

1=Do not allow Call Forwarding of other extensions. (default)

DEFAULT EXCEPTIONS:

for COS Nos.	Default	Applies to these countries
COS #16 (address 15)	**0=Allow**	all countries

Notes:

Related Programming:

Extension COS: User Log-In

0023 :1
NN:User Log-In
(NN=COS 01-16)

(all CPCs) - Version 2.0 or higher

Allow/Restrict the ability of extensions in this Class of Service (COS) to change User Maintenance settings by entering the User Log-In code.

FF1 0 03 (00-15) 23 Hold (0 or 1) Hold

(00-15): Extension COS Nos. 1-16	
00=COS #1	**08**=COS #9
01=COS #2	**09**=COS #10
02=COS #3	**10**=COS #11
03=COS #4	**11**=COS #12
04=COS #5	**12**=COS #13
05=COS #6	**13**=COS #14
06=COS #7	**14**=COS #15 (for VM)
07=COS #8	**15**=COS #16 (for Att.)

0=Allow User Log-In at this extension.
1=Do not allow User Log-In at this extension. (default)

DEFAULT EXCEPTIONS:

for COS Nos.	Default	Applies to these countries
COS #16 (address 15)	**0=Allow**	all countries

FF1 System

Notes:

To log-in from an extension, press: **PROG ✻✻ CONF**

Related Programming:

Programming Mode Entry (pg. 1-15) **FF1 0 01 0012 Hold (0 or 1) Hold**
FF8 1: User Maintenance (pg. 8-42)

Extension COS: Priority Message-Waiting Send (VM)

0024 :1
NN:MSG Wait1

(NN=COS 01-16)

(all CPCs) - Version 2.0 or higher

Allow/Restrict the ability of extensions in this Class of Service (COS) to send a Priority Message-Waiting indication to other extensions.

FF1 FF1 System

FF1 0 03 (00-15) 24 Hold (0 or 1) Hold

(00-15): Extension COS Nos. 1-16	
00=COS #1	**08**=COS #9
01=COS #2	**09**=COS #10
02=COS #3	**10**=COS #11
03=COS #4	**11**=COS #12
04=COS #5	**12**=COS #13
05=COS #6	**13**=COS #14
06=COS #7	**14**=COS #15 (for VM)
07=COS #8	**15**=COS #16 (for Att.)

0=Allow Priority Message-Waiting Send.

1=Do not allow Priority Message-Waiting Send. (default)

DEFAULT EXCEPTIONS:

for COS Nos.	Default	Applies to these countries
COS #2 (address 01)	**0=Allow**	Taiwan, Indonesia, Malaysia
COS #15 (address 14)	**0=Allow**	all countries

Notes:

The Priority Message-Waiting Send feature is typically implemented in Voice Mail systems. In order for this setting to affect VM, make sure the appropriate COS number is assigned to the VM extension port.

Related Programming:

SLT Voice Mail Connection (pg. 3-11) **FF3 0 BSSC 04 06 Hold (0 or 1) Hold**
Extension COS Assignment (pg. 3-26) **FF3 0 BSSC 07 Hold (1-16) Hold**

Extension COS: Message-Waiting Send

0025 :0
NN:MSG Wait2
(NN=COS 01-16)

(all CPCs) - Version 2.0 or higher

Allow/Restrict the ability of extensions in this Class of Service (COS) to send a Message-Waiting indication to other extensions.

FF1 0 03 (00-15) 25 Hold (0 or 1) Hold

(00-15): Extension COS Nos. 1-16	
00=COS #1	**08**=COS #9
01=COS #2	**09**=COS #10
02=COS #3	**10**=COS #11
03=COS #4	**11**=COS #12
04=COS #5	**12**=COS #13
05=COS #6	**13**=COS #14
06=COS #7	**14**=COS #15 (for VM)
07=COS #8	**15**=COS #16 (for Att.)

0=Allow Message-Waiting Send. (default)
1=Do not allow Message-Waiting Send.

DEFAULT EXCEPTIONS:

for COS Nos.	Default	Applies to these countries
COS #15 (address 14)	**1=Do not allow**	all countries

Notes:

Related Programming:

Extension COS: System Mode Switch

0026 :1
NN:SYS Mode
(NN=COS 01-16)

(all CPCs) - Version 2.0 or higher

Allow/Restrict the ability of extensions in this Class of Service (COS) to switch the phone system from Day to Night mode, or vice versa.

FF1 0 03 (00-15) 26 Hold (0 or 1) Hold

FF1
System

(00-15): Extension COS Nos. 1-16	
00=COS #1	**08**=COS #9
01=COS #2	**09**=COS #10
02=COS #3	**10**=COS #11
03=COS #4	**11**=COS #12
04=COS #5	**12**=COS #13
05=COS #6	**13**=COS #14
06=COS #7	**14**=COS #15 (for VM)
07=COS #8	**15**=COS #16 (for Att.)

0=Allow System Mode switch.
1=Do not allow System Mode switch. (default)

DEFAULT EXCEPTIONS:

for COS Nos.	Default	Applies to these countries
COS #15-16 (addresses 14-15)	**0=Allow**	all countries

Notes:

Related Programming:

System Mode Display (pg. 3-17) **FF3 0 BSSC 04 16 Hold (0 or 1) Hold**

Extension COS: Busy Override Send

0027 :0
NN:INT Override
(NN=COS 01-16)

(all CPCs) - Version 2.0 or higher

Allow/Restrict the ability of extensions in this Class of Service (COS) to barge into calls on other extensions.

FF1 0 03 (00-15) 27 Hold (0 or 1) Hold

(00-15): Extension COS Nos. 1-16	
00=COS #1	**08**=COS #9
01=COS #2	**09**=COS #10
02=COS #3	**10**=COS #11
03=COS #4	**11**=COS #12
04=COS #5	**12**=COS #13
05=COS #6	**13**=COS #14
06=COS #7	**14**=COS #15 (for VM)
07=COS #8	**15**=COS #16 (for Att.)

0=Allow Busy Override Send. (default)
1=Do not allow Busy Override Send.

DEFAULT EXCEPTIONS:

for COS Nos.	Default	Applies to these countries
COS #5-9 (addresses 04-08)	**1=Do not allow**	Taiwan, Indonesia, Malaysia

FF1 System

Notes:

This address does not affect Exchange Line Busy Override, which is accomplished by pressing the lit FF-key representing the busy exchange line. See **Busy Override on Exchange-Line Key (pg. 3-9)** for more information.

Related Programming:

Splash Tone: Busy Override (Start) (pg. 1-10) FF1 0 01 0003 Hold (0 or 1) Hold
Splash Tone: Busy Override (Continuous) (pg. 1-10) FF1 0 01 0004 Hold (0 or 1) Hold

Extension COS: Manual Camp-On Send

(all CPCs) - Version 2.0 or higher

Allow/Restrict the ability of extensions in this Class of Service (COS) to camp onto other extensions by dialling the Camp-On (Call Waiting) code.

0028 :0
NN:Camp On
(NN=COS 01-16)

FF1 0 03 (00-15) 28 Hold (0 or 1) Hold

FF1
System

(00-15): Extension COS Nos. 1-16	
00=COS #1	**08**=COS #9
01=COS #2	**09**=COS #10
02=COS #3	**10**=COS #11
03=COS #4	**11**=COS #12
04=COS #5	**12**=COS #13
05=COS #6	**13**=COS #14
06=COS #7	**14**=COS #15 (for VM)
07=COS #8	**15**=COS #16 (for Att.)

0=Allow Manual Camp-On Send. (default)
1=Do not allow Manual Camp-On Send.

DEFAULT EXCEPTIONS:

for COS Nos.	Default	Applies to these countries
COS #7, 9 (addresses 06, 08)	**1=Do not allow**	Taiwan, Indonesia, Malaysia

Notes:

Manual Camp-On: After dialling a busy extension, stay on the extension and dial the Camp-On (Call Waiting) code. Stay on the line until the called party picks up.

When a manual camp-on occurs, the receiving (busy) extension hears a camp-on tone in the receiver, as well as an LCD message indicating the camp-on. The issuing extension hears ringback tone if the camp-on was successful; if not, the extension will continue to hear busy tone. See next address to allow or block the *receiving* of a camp-on.

Auto Camp-On (ability to camp-onto a busy extension simply by calling it) can be enabled/disabled on individual extensions. See **Auto Camp-On Receive (pg. 3-10)** for more information.

Related Programming:

Extension COS: Onhook Transfer at Camp-On (pg. 1-40) FF1 0 03 (00-15) 04 Hold (0 or 1) Hold

Extension COS: Manual Camp-On Receive

(all CPCs) - Version 2.0 or higher

Allow/Restrict the ability of extensions in this Class of Service (COS) to receive camp-ons from other extensions.

0029 :0
NN:Camped On
(NN=COS 01-16)

FF1 0 03 (00-15) 29 Hold (0 or 1) Hold

(00-15): Extension COS Nos. 1-16	
00=COS #1	**08**=COS #9
01=COS #2	**09**=COS #10
02=COS #3	**10**=COS #11
03=COS #4	**11**=COS #12
04=COS #5	**12**=COS #13
05=COS #6	**13**=COS #14
06=COS #7	**14**=COS #15 (for VM)
07=COS #8	**15**=COS #16 (for Att.)

0=Allow Manual Camp-On Receive. (default)
1=Do not allow Manual Camp-On Receive.

DEFAULT EXCEPTIONS:

for COS Nos.	Default	Applies to these countries
COS #15 (address 14)	**1=Do not allow**	all countries

FF1 System

Notes:

Related Programming:

Extension COS: Callback Request Send

0030 :0
NN:Call Back

(NN=COS 01-16)

(all CPCs) - Version 2.0 or higher

(also called "Station Queuing") Allow/Restrict the ability of extensions in this Class of Service (COS) to activate Callback Requests on other extensions.

FF1 0 03 (00-15) 30 Hold (0 or 1) Hold

FF1
System

(00-15): Extension COS Nos. 1-16	
00=COS #1	**08**=COS #9
01=COS #2	**09**=COS #10
02=COS #3	**10**=COS #11
03=COS #4	**11**=COS #12
04=COS #5	**12**=COS #13
05=COS #6	**13**=COS #14
06=COS #7	**14**=COS #15 (for VM)
07=COS #8	**15**=COS #16 (for Att.)

0=Allow Callback Request Send. (default)
1=Do not allow Callback Request Send.

DEFAULT EXCEPTIONS:

for COS Nos.	Default	Applies to these countries
COS #9 (address 08)	**1=Do not allow**	Taiwan, Indonesia, Malaysia

Notes:

Callback Request: *(also called "Station Queuing")* Dial a busy extension. Before hanging up, dial the Callback Request code ("3" by default). When the called extension becomes idle, your phone will start ringing. When you pick up, the system will automatically ring the called extension. When they pick up, you'll be connected to them.

If the other extension's **Callback Request *Receive*** (see address below) is set for "Do not allow," this extension's **Callback Request *Send*** setting has no meaning for call attempts to that extension.

Related Programming:

Extension COS: Callback Request Receive (pg. 1-67) FF1 0 03 (00-15) 31 Hold (0 or 1) Hold

Callback Ring Timer (Callback Request and Exchange-Line Queuing) (pg. 1-163) FF1 1 04 0011 Hold (0-255) Hold

Extension COS: Callback Request Receive

0031 :0
NN:Called Back
(NN=COS 01-16)

(all CPCs) - Version 2.0 or higher

Allow/Restrict the ability of extensions in this Class of Service (COS) to receive Callback Requests from other extensions.

FF1 0 03 (00-15) 31 Hold (0 or 1) Hold

(00-15): Extension COS Nos. 1-16	
00=COS #1	**08**=COS #9
01=COS #2	**09**=COS #10
02=COS #3	**10**=COS #11
03=COS #4	**11**=COS #12
04=COS #5	**12**=COS #13
05=COS #6	**13**=COS #14
06=COS #7	**14**=COS #15 (for VM)
07=COS #8	**15**=COS #16 (for Att.)

0=Allow Callback Request Receive. (default)
1=Do not allow Callback Request Receive.

DEFAULT EXCEPTIONS:

for COS Nos.	Default	Applies to these countries
COS #2 (address 01)	**1=Do not allow**	Taiwan, Indonesia, Malaysia

FF1 System

Notes:

Related Programming:

Extension COS: Callback Request Send (pg. 1-66) FF1 0 03 (00-15) 30 Hold (0 or 1) Hold

Extension COS: Exchange Line Queuing

0032 :0
NN:TRK Queuing
(NN=COS 01-16)

(all CPCs) - Version 2.0 or higher

Allow/Restrict the ability of extensions in this Class of Service (COS) to use the Exchange Line Queuing feature.

FF1 0 03 (00-15) 32 Hold (0 or 1) Hold

FF1
System

(00-15): Extension COS Nos. 1-16	
00=COS #1	**08**=COS #9
01=COS #2	**09**=COS #10
02=COS #3	**10**=COS #11
03=COS #4	**11**=COS #12
04=COS #5	**12**=COS #13
05=COS #6	**13**=COS #14
06=COS #7	**14**=COS #15 (for VM)
07=COS #8	**15**=COS #16 (for Att.)

0=Allow Exchange Line Queuing. (default)
1=Do not allow Exchange Line Queuing.

DEFAULT EXCEPTIONS:

for COS Nos.	Default	Applies to these countries
COS #7, 9 (addresses 06, 08)	**1=Do not allow**	Taiwan, Indonesia, Malaysia

Notes:

Exchange Line Queuing: Dial an exchange line access code to seize an exchange line. If you hear busy tone instead, dial the Exchange Line Queuing code and hang up. Your phone will issue an alert tone when the exchange line becomes available. Pick up the handset to accept it (you'll hear dial tone in the receiver).

If the **ARS/LCR Setting** for the system is disabled, Exchange Line Queuing for MCO-1 is available.

Related Programming:

ARS/LCR Setting (pg. 1-27) FF1 0 02 0010 Hold (0 or 1) Hold
Extension COS: Direct Exchange-Line Access (pg. 1-49) FF1 0 03 (00-15) 13 Hold (0 or 1) Hold

Extension COS: Manual DND Override Send

0033 :1
NN:DND Override

(NN=COS 01-16)

(all CPCs) - Version 2.0 or higher

Allow/Restrict the ability of extensions in this Class of Service (COS) to manually override a Do-Not-Disturb (DND) setting on another extension.

FF1 0 03 (00-15) 33 Hold (0 or 1) Hold

(00-15): Extension COS Nos. 1-16	
00=COS #1	**08**=COS #9
01=COS #2	**09**=COS #10
02=COS #3	**10**=COS #11
03=COS #4	**11**=COS #12
04=COS #5	**12**=COS #13
05=COS #6	**13**=COS #14
06=COS #7	**14**=COS #15 (for VM)
07=COS #8	**15**=COS #16 (for Att.)

0=Allow Manual DND Override Send.

1=Do not allow Manual DND Override Send. (default)

DEFAULT EXCEPTIONS:

for COS Nos.	Default	Applies to these countries
COS #2-3 (addresses 01-02)	**0=Allow**	Taiwan, Indonesia, Malaysia
COS #16 (address 15)	**0=Allow**	all countries

FF1 System

Notes:

Related Programming:

Extension COS: Forced DND Override (pg. 1-70) FF1 0 03 (00-15) 34 Hold (0 or 1) Hold

Extension COS: Forced DND Override

0034 :1
NN:DND Call

(NN=COS 01-16)

(all CPCs) - Version 2.0 or higher

Allow/Restrict the ability of extensions in this Class of Service (COS) to automatically override Do-Not-Disturb (DND) settings on other extensions.

FF1 0 03 (00-15) 34 Hold (0 or 1) Hold

FF1
System

(00-15): Extension COS Nos. 1-16	
00=COS #1	**08**=COS #9
01=COS #2	**09**=COS #10
02=COS #3	**10**=COS #11
03=COS #4	**11**=COS #12
04=COS #5	**12**=COS #13
05=COS #6	**13**=COS #14
06=COS #7	**14**=COS #15 (for VM)
07=COS #8	**15**=COS #16 (for Att.)

0=Allow automatic DND Override on other extensions.

1=Do not allow automatic DND Override on other extensions. (default)

DEFAULT EXCEPTIONS:

for COS Nos.	Default	Applies to these countries
COS #2 (address 01)	**0=Allow**	Taiwan, Indonesia, Malaysia

Notes:

Related Programming:

Extension COS: Manual DND Override Send (pg. 1-69) FF1 0 03 (00-15) 33 Hold (0 or 1) Hold

Extension COS: 8-Party Conference

0035 :0
NN:8 Party CONF
(NN=COS 01-16)

(all CPCs) - Version 2.0 or higher

Allow/Restrict the ability of extensions in this Class of Service (COS) to make an 8-party conference call.

FF1 0 03 (00-15) 35 Hold (0 or 1) Hold

(00-15): Extension COS Nos. 1-16	
00=COS #1	**08**=COS #9
01=COS #2	**09**=COS #10
02=COS #3	**10**=COS #11
03=COS #4	**11**=COS #12
04=COS #5	**12**=COS #13
05=COS #6	**13**=COS #14
06=COS #7	**14**=COS #15 (for VM)
07=COS #8	**15**=COS #16 (for Att.)

0=Allow 8-Party Conference. (default)
1=Do not allow 8-Party Conference.

DEFAULT EXCEPTIONS:

for COS Nos.	Default	Applies to these countries
COS #5-9 (addresses 04-08)	**1=Do not allow**	Taiwan, Indonesia, Malaysia
COS #15 (address 14)	**1=Do not allow**	all countries

Notes:

Related Programming:

Extension COS: Voice Call Send

0036 :0
NN:Voice Call
(NN=COS 01-16)

(all CPCs) - Version 2.0 or higher

Allow/Restrict the ability of extensions in this Class of Service (COS) to place voice intercom calls to other extensions.

FF1 0 03 (00-15) 36 Hold (0 or 1) Hold

FF1
System

(00-15): Extension COS Nos. 1-16	
00=COS #1	**08**=COS #9
01=COS #2	**09**=COS #10
02=COS #3	**10**=COS #11
03=COS #4	**11**=COS #12
04=COS #5	**12**=COS #13
05=COS #6	**13**=COS #14
06=COS #7	**14**=COS #15 (for VM)
07=COS #8	**15**=COS #16 (for Att.)

0=Allow Voice intercom calling. (default)
1=Do not allow Voice intercom calling.

Notes:

This address does not apply if **Extension COS: Intercom Calling Type (pg. 1-37)** is set to "0=Tone calling."

If **Extension COS: Intercom Calling Type** is set to "1=Voice calling," but the above address is set to "1=Do not allow," the extension will automatically send intercom calls by Tone.

Related Programming:

Splash Tone: Voice Calls (pg. 1-9) FF1 0 01 0001 Hold (0 or 1) Hold
Extension COS: Intercom Calling Type (pg. 1-37) FF1 0 03 (00-15) 01 Hold (0 or 1) Hold

Extension COS: Voice Call Receive

0037 :0
NN:Voice Called
(NN=COS 01-16)

(all CPCs) - Version 2.0 or higher

Allow/Restrict the ability of extensions in this Class of Service (COS) to receive voice intercom calls from other extensions.

FF1 0 03 (00-15) 37 Hold (0 or 1) Hold

(00-15): Extension COS Nos. 1-16	
00=COS #1	**08**=COS #9
01=COS #2	**09**=COS #10
02=COS #3	**10**=COS #11
03=COS #4	**11**=COS #12
04=COS #5	**12**=COS #13
05=COS #6	**13**=COS #14
06=COS #7	**14**=COS #15 (for VM)
07=COS #8	**15**=COS #16 (for Att.)

0=Allow receive of Voice intercom calls. (default)
1=Do not allow receive of Voice intercom calls.

DEFAULT EXCEPTIONS:

for COS Nos.	Default	Applies to these countries
COS #15 (address 14)	**1=Do not allow**	all countries

FF1 System

Notes:

Related Programming:

Splash Tone: Voice Calls (pg. 1-9) FF1 0 01 0001 Hold (0 or 1) Hold
Extension COS: Intercom Calling Type (pg. 1-37) FF1 0 03 (00-15) 01 Hold (0 or 1) Hold

Extension COS: Dial Tone Stop

0038 :1
NN:DT Stop

(NN=COS 01-16)

(all CPCs) - Version 2.0 or higher

Set whether extensions in this Class of Service (COS) will receive internal dial tone at handset off-hook.

FF1 0 03 (00-15) 38 Hold (0 or 1) Hold

FF1
System

(00-15): Extension COS Nos. 1-16	
00=COS #1	**08**=COS #9
01=COS #2	**09**=COS #10
02=COS #3	**10**=COS #11
03=COS #4	**11**=COS #12
04=COS #5	**12**=COS #13
05=COS #6	**13**=COS #14
06=COS #7	**14**=COS #15 (for VM)
07=COS #8	**15**=COS #16 (for Att.)

0=No tone at off-hook.

1=Receive internal dial tone at off-hook. (default)

Notes:

Related Programming:

Extension COS: Dial Tone Pre-Pause Check

0039 :1
NN:DT Pre-Pause
(NN=COS 01-16)

(all CPCs) - Version 2.0 or higher

Set whether extensions in this Class of Service (COS) will be subject to a timeout between off-hook/dial tone and the first dialled digit.

FF1 0 03 (00-15) 39 Hold (0 or 1) Hold

(00-15): Extension COS Nos. 1-16	
00=COS #1	**08**=COS #9
01=COS #2	**09**=COS #10
02=COS #3	**10**=COS #11
03=COS #4	**11**=COS #12
04=COS #5	**12**=COS #13
05=COS #6	**13**=COS #14
06=COS #7	**14**=COS #15 (for VM)
07=COS #8	**15**=COS #16 (for Att.)

0=No check/System will give dial tone indefinitely.

1=Check/System will send re-order tone if the Pre-Pause Timer elapses before the first dialled digit. (default)

DEFAULT EXCEPTIONS:

for COS Nos.	Default	Applies to these countries
COS #15-16 (addresses 14-15)	**0=No check**	all countries

FF1 System

Notes:

Related Programming:

Pre-Pause Timer at Internal Dial Tone (DP SLTs) (pg. 1-152) FF1 1 03 0003 Hold (0-255) Hold
Pre-Pause Timer at Internal Dial Tone (DTMF SLTs) (pg. 1-153) FF1 1 03 0004 Hold (0-255) Hold
Pre-Pause Timer at Internal Dial Tone (Digital Keyphones) (pg. 1-153) FF1 1 03 0005 Hold (0-255) Hold

Extension COS: Long Talk Alarm

0040 :1
NN:LongTalk ALM
(NN=COS 01-16)

(all CPCs) - Version 2.0 or higher

Set whether extensions in this Class of Service (COS) will hear an alarm tone in the handset receiver after an outbound call exceeds the **Long Talk Alarm Timer**.

FF1 0 03 (00-15) 40 Hold (0 or 1) Hold

FF1
System

(00-15): Extension COS Nos. 1-16	
00=COS #1	**08**=COS #9
01=COS #2	**09**=COS #10
02=COS #3	**10**=COS #11
03=COS #4	**11**=COS #12
04=COS #5	**12**=COS #13
05=COS #6	**13**=COS #14
06=COS #7	**14**=COS #15 (for VM)
07=COS #8	**15**=COS #16 (for Att.)

0=Disable Long Talk Alarm.
1=Enable Long Talk Alarm. (default)

DEFAULT EXCEPTIONS:

for COS Nos.	Default	Applies to these countries
COS #1-16 (addresses 00-15)	**0=Disable**	USA only

Notes:

Related Programming:

Long Talk Alarm #1 Timer (pg. 1-147) **FF1 1 02 0010 Hold (0-255) Hold**
Long Talk Alarm #2 Timer (pg. 1-148) **FF1 1 02 0011 Hold (0-255) Hold**

Extension COS: Recall Timer Apply

0041 :0
NN:Recall Time
(NN=COS 01-16)

(all CPCs) - Version 2.0 or higher

Set which Recall Timer will be used for extensions in this Class of Service (COS).

FF1 0 03 (00-15) 41 Hold (0 or 1) Hold

(00-15): Extension COS Nos. 1-16	
00=COS #1	**08**=COS #9
01=COS #2	**09**=COS #10
02=COS #3	**10**=COS #11
03=COS #4	**11**=COS #12
04=COS #5	**12**=COS #13
05=COS #6	**13**=COS #14
06=COS #7	**14**=COS #15 (for VM)
07=COS #8	**15**=COS #16 (for Att.)

0=Use Extension Recall Timer. (default)
1=Use Attendant Recall Timer.

DEFAULT EXCEPTIONS:

for COS Nos.	Default	Applies to these countries
COS #9 (address 08)	**1=Use Attendant Recall Timer**	Taiwan, Indonesia, Malaysia
COS #16 (address 15)	**1=Use Attendant Recall Timer**	all countries

FF1 System

Notes:

Related Programming:

Hold Recall Start Timer (Extensions) (pg. 1-158) FF1 1 04 0001 Hold (0-255) Hold
Hold Recall Start Timer (Attendant Group) (pg. 1-158) FF1 1 04 0002 Hold (0-255) Hold
Hold Recall Start Timer (SLTs) (pg. 1-159) FF1 1 04 0003 Hold (0-255) Hold
Transfer Recall Start Timer (Extensions/SLTs) (pg. 1-159) FF1 1 04 0004 Hold (0-255) Hold
Transfer Recall Start Timer (Attendant Group) (pg. 1-160) FF1 1 04 0005 Hold (0-255) Hold

Extension COS: Forced ARS

0042 :0
NN:Forced ARS
(NN=COS 01-16)

(all CPCs) - Version 2.0 or higher

Set whether Automatic Route Selection (ARS) will be forced on extensions in this Class of Service (COS).

FF1 0 03 (00-15) 42 Hold (0 or 1) Hold

FF1
System

(00-15): Extension COS Nos. 1-16	
00=COS #1	**08**=COS #9
01=COS #2	**09**=COS #10
02=COS #3	**10**=COS #11
03=COS #4	**11**=COS #12
04=COS #5	**12**=COS #13
05=COS #6	**13**=COS #14
06=COS #7	**14**=COS #15 (for VM)
07=COS #8	**15**=COS #16 (for Att.)

0=Disable Forced ARS. (default)
1=Enable Forced ARS.

Notes:

If this is set to "1=Enable Forced ARS," the extension can only dial the MCO-1 access code ("9" by default) to obtain an outside line; all other MCO access codes will be blocked.

Related Programming:

ARS/LCR Setting (pg. 1-27) FF1 0 02 0010 Hold (0 or 1) Hold
FF6 0: TRS/ARS Common (pg. 6-5)
FF6 1: TRS Class Definitions (pg. 6-16)
FF6 2: ARS Settings (pg. 6-27)

Extension COS: API Event Reporting

0043 :1
NN:API Event
(NN=COS 01-16)

(all CPCs) - Version 2.0 or higher

NOTE: This address is for future use.

Set whether extension events will be sent to the API port.

FF1 0 03 (00-15) 43 Hold (0 or 1) Hold

(00-15): Extension COS Nos. 1-16	
00=COS #1	**08**=COS #9
01=COS #2	**09**=COS #10
02=COS #3	**10**=COS #11
03=COS #4	**11**=COS #12
04=COS #5	**12**=COS #13
05=COS #6	**13**=COS #14
06=COS #7	**14**=COS #15 (for VM)
07=COS #8	**15**=COS #16 (for Att.)

0=Disable API event reporting.

1=Enable API event reporting. (default)

FF1 System

Notes:

Related Programming:

FF7 2: API (pg. 7-16)

Extension COS: Call Forward-Outside

0044 :0
NN:CFWD Outside
(NN=COS 01-16)

(all CPCs) - Version 2.0 or higher

Allow or deny the ability to Call Forward incoming calls to an outside phone number on extensions in this Class of Service (COS).

FF1 0 03 (00-15) 44 Hold (0 or 1) Hold

FF1
System

(00-15): Extension COS Nos. 1-16	
00=COS #1	**08**=COS #9
01=COS #2	**09**=COS #10
02=COS #3	**10**=COS #11
03=COS #4	**11**=COS #12
04=COS #5	**12**=COS #13
05=COS #6	**13**=COS #14
06=COS #7	**14**=COS #15 (for VM)
07=COS #8	**15**=COS #16 (for Att.)

0=Allow Call Forward-Outside. (default)
1=Do not allow Call Forward-Outside.

Notes:

Related Programming:

Extension COS: Onhook Exch.Line-to-Exch.Line Transfer

0045 :1
NN:ON-HK TKtoTK
(NN=COS 01-16)

(all CPCs) - Version 2.0 or higher

Set whether extensions in this Class of Service (COS) can perform onhook transfers between two exchange lines.

FF1 0 03 (00-15) 45 Hold (0 or 1) Hold

(00-15): Extension COS Nos. 1-16	
00=COS #1	**08**=COS #9
01=COS #2	**09**=COS #10
02=COS #3	**10**=COS #11
03=COS #4	**11**=COS #12
04=COS #5	**12**=COS #13
05=COS #6	**13**=COS #14
06=COS #7	**14**=COS #15 (for VM)
07=COS #8	**15**=COS #16 (for Att.)

0=Allow Exch.Line-to-Exch.Line Transfers.

1=Do not allow Exch.Line-to-Exch.Line Transfers. (default)

FF1 System

Notes:

Onhook Exch.Line-to-Exch.Line Transfer: Put an outside call on hold. Dial the second outside number, then hang up. The two outside calls will be connected.

Related Programming:

Extension COS: Onhook Transfer at Ringback (pg. 1-38) FF1 0 03 (00-15) 02 Hold (0 or 1) Hold
Extension COS: Onhook Transfer at Talk (pg. 1-39) FF1 0 03 (00-15) 03 Hold (0 or 1) Hold
Extension COS: Onhook Transfer at Camp-On (pg. 1-40) FF1 0 03 (00-15) 04 Hold (0 or 1) Hold
Exch.Line-to-Exch.Line Connection Timer (pg. 1-149) FF1 1 02 0013 Hold (0-255) Hold

Extension COS: Station Call Park Answer

0046 :0
NN:C.Park Answer
(NN=COS 01-16)

(all CPCs) - Version 2.0 or higher

Set whether extensions in this Class of Service (COS) can pick up a call in Station Park. *NOTE: This does not apply to call parks to a Virtual Port.*

FF1 0 03 (00-15) 46 Hold (0 or 1) Hold

FF1
System

(00-15): Extension COS Nos. 1-16	
00=COS #1	**08**=COS #9
01=COS #2	**09**=COS #10
02=COS #3	**10**=COS #11
03=COS #4	**11**=COS #12
04=COS #5	**12**=COS #13
05=COS #6	**13**=COS #14
06=COS #7	**14**=COS #15 (for VM)
07=COS #8	**15**=COS #16 (for Att.)

0=Allow Station Call Park Answer. (default)
1=Do not allow Station Call Park Answer.

Notes:

Station Park: Park a call at an individual extension by putting the call on hold and dialling a Call Park code. The parked call can be retrieved on another extension (if enabled in the above address) by dialling a Station Park Answer code and the extension number where the call is parked. Useful when the intended recipient (usually the person who parked the call and needs to move around the office) isn't sure which extension they will be near when they are ready to retrieve the call.

Related Programming:

Station Call Park Recall Timer (pg. 1-166) FF1 1 04 0017 Hold (0-255) Hold

Extension COS: Station Call Park Transfer

0047 :0
NN:C.Park TRF
(NN=COS 01-16)

(all CPCs) - Version 2.0 or higher

Set whether extensions in this Class of Service (COS) can transfer a parked call to another extension.

FF1 0 03 (00-15) 47 Hold (0 or 1) Hold

(00-15): Extension COS Nos. 1-16	
00=COS #1	**08**=COS #9
01=COS #2	**09**=COS #10
02=COS #3	**10**=COS #11
03=COS #4	**11**=COS #12
04=COS #5	**12**=COS #13
05=COS #6	**13**=COS #14
06=COS #7	**14**=COS #15 (for VM)
07=COS #8	**15**=COS #16 (for Att.)

0=Allow Station Call Park Transfer. (default)
1=Do not allow Station Call Park Transfer.

FF1 System

Notes:

Related Programming:

Station Call Park Recall Timer (pg. 1-166) FF1 1 04 0017 Hold (0-255) Hold

Extension COS: OHVA

0048 :0
NN:OHVA

(NN=COS 01-16)

(all CPCs) - Version 2.0 or higher

Set whether extensions in this Class of Service (COS) can make an Off-Hook Voice Announce (OHVA).

FF1 0 03 (00-15) 48 Hold (0 or 1) Hold

FF1
System

(00-15): Extension COS Nos. 1-16	
00=COS #1	**08**=COS #9
01=COS #2	**09**=COS #10
02=COS #3	**10**=COS #11
03=COS #4	**11**=COS #12
04=COS #5	**12**=COS #13
05=COS #6	**13**=COS #14
06=COS #7	**14**=COS #15 (for VM)
07=COS #8	**15**=COS #16 (for Att.)

0=Allow OHVA. (default)
1=Do not allow OHVA.

Notes:

Related Programming:

Extension COS: OHVA Answer

0049 :0
NN:OHVA Answer
(NN=COS 01-16)

(all CPCs) - Version 2.0 or higher

Set whether extensions in this Class of Service (COS) can answer an Off-Hook Voice Announce (OHVA).

FF1 0 03 (00-15) 49 Hold (0 or 1) Hold

(00-15): Extension COS Nos. 1-16	
00=COS #1	**08**=COS #9
01=COS #2	**09**=COS #10
02=COS #3	**10**=COS #11
03=COS #4	**11**=COS #12
04=COS #5	**12**=COS #13
05=COS #6	**13**=COS #14
06=COS #7	**14**=COS #15 (for VM)
07=COS #8	**15**=COS #16 (for Att.)

0=Allow OHVA Answer. (default)
1=Do not allow OHVA Answer.

FF1 System

Notes:

Related Programming:

Extension COS: Call-Waiting Answer at HOLD

0050 :0
NN:Call Wait ANS
(NN=COS 01-16)

(all CPCs) - Version 2.0 or higher

Set whether extensions in this Class of Service (COS) can answer a Call-Waiting by pressing the HOLD key.

FF1 0 03 (00-15) 50 Hold (0 or 1) Hold

FF1
System

(00-15): Extension COS Nos. 1-16	
00=COS #1	**08**=COS #9
01=COS #2	**09**=COS #10
02=COS #3	**10**=COS #11
03=COS #4	**11**=COS #12
04=COS #5	**12**=COS #13
05=COS #6	**13**=COS #14
06=COS #7	**14**=COS #15 (for VM)
07=COS #8	**15**=COS #16 (for Att.)

0=Allow Call-Waiting Answer via HOLD. (default)
1=Do not allow Call-Waiting Answer via HOLD.

DEFAULT EXCEPTIONS:

for COS Nos.	Default	Applies to these countries
COS #1-16 (addresses 00-15)	**1=Do not allow**	USA only

Notes:

Related Programming:

Extension COS: On-Hook Park

0051 :0
NN:On Hook Park??
(NN=COS 01-16)

(all CPCs) - Version 2.0 or higher

Set whether extensions in this Class of Service (COS) can ***park a call on-hook???***

FF1 0 03 (00-15) 51 Hold (0 or 1) Hold

(00-15): Extension COS Nos. 1-16	
00=COS #1	**08**=COS #9
01=COS #2	**09**=COS #10
02=COS #3	**10**=COS #11
03=COS #4	**11**=COS #12
04=COS #5	**12**=COS #13
05=COS #6	**13**=COS #14
06=COS #7	**14**=COS #15 (for VM)
07=COS #8	**15**=COS #16 (for Att.)

0=Allow On-Hook Park. (default)
1=Do not allow On-Hook Park.

FF1
System

Notes:

Related Programming:

FF1 0 04: Exchange Line COS Definitions

*NOTE: The following **Exchange Line Class of Service (COS)** addresses apply to all exchange line types: analog exchange lines, AC-15 private lines, T1-CO, T1-E&M, and T-point ISDN.*

When you enter the address number 00-15 for the desired COS No. 01-16, the actual COS No. (01-16) will appear on the phone's display.

FF1 System

By default, all exchange lines are assigned COS 1 in their "Exchange Line COS Assignment" (see FF2).

Table 1-3. Exchange Line COS addresses and defaults

FF1 0 04 (00-15) 01 Hold (0 or 1) Hold	Exchange Line COS: Incoming Ring Tone Source	0 (use exchLn.'s Ring Pattern)	pg. 1-88
FF1 0 04 (00-15) 02 Hold (0 or 1) Hold	Exchange Line COS: Dial Tone to Private Line	1 (Enabled)	pg. 1-89
FF1 0 04 (00-15) 03 Hold (0 or 1) Hold	Exchange Line COS: Fast-Busy Tone to Private Line	0 (Enabled)	pg. 1-90
FF1 0 04 (00-15) 04 Hold (0 or 1) Hold	Exchange Line COS: DDI/CLI Table	0 ("A" side)	pg. 1-91
FF1 0 04 (00-15) 05 Hold (0 or 1) Hold	Exchange Line COS: Paging on DISA/Private Line Call	0 (Not Allowed)	pg. 1-92
FF1 0 04 (00-15) 06 Hold (0 or 1) Hold	Exchange Line COS: DISA ID Verification	0 (Verify)	pg. 1-93

Exchange Line COS: Incoming Ring Tone Source

0001 :0
NN:Ring Tone

(NN=COS 01-16)

(all CPCs) - Version 2.0 or higher

Set ring tone source for incoming calls on exchange lines in this Class of Service.
EXCEPTION: This address does not apply to AC-15 private lines.

FF1 0 04 (00-15) 01 Hold (0 or 1) Hold

(00-15): Exchange Line COS Nos. 1-16	
00=COS #1	**08**=COS #9
01=COS #2	**09**=COS #10
02=COS #3	**10**=COS #11
03=COS #4	**11**=COS #12
04=COS #5	**12**=COS #13
05=COS #6	**13**=COS #14
06=COS #7	**14**=COS #15
07=COS #8	**15**=COS #16

0=Use the exchange line's Ring Pattern (set in FF2) for all incoming calls. (default)

1=Use intercom ring tone for all incoming calls, except for multiple-incoming (which will use the FF2 Ring Pattern).

Notes:

Intercom Ring Tone: Two short beeps, followed by 3 seconds of silence. Heard when direct calls are ringing the phone (the "INT" LED lights to indicate a direct call).

Related Programming:

Ring Pattern for exchange lines ...

(pg. 2-14) for analog exchange lines **FF2 0 BSSC 01 12 Hold (0-12) Hold**

(pg. 2-64) for ISDN exchange lines **FF2 1 BSSC 02 02 Hold (0-12) Hold**

(pg. 2-92) for T1-CO lines *(USA only)* **FF2 2 BSSCC 02 09 Hold (0-12) Hold**

Exchange Line COS: Dial Tone to Private Line

0002 :1
NN:DT CONT-TIE

(all CPCs) - Version 2.0 or higher

(NN=COS 01-16)

Set whether the system will send dial tone to a an AC-15 private line in this Class of Service for an incoming call.

FF1 0 04 (00-15) 02 Hold (0 or 1) Hold

(00-15): Exchange Line COS Nos. 1-16	
00=COS #1	**08**=COS #9
01=COS #2	**09**=COS #10
02=COS #3	**10**=COS #11
03=COS #4	**11**=COS #12
04=COS #5	**12**=COS #13
05=COS #6	**13**=COS #14
06=COS #7	**14**=COS #15
07=COS #8	**15**=COS #16

0=Disable Dial Tone to private line.

1=Enable Dial Tone to private line. (default)

Notes:

Related Programming:

FF2 0: AC-15 Private Lines (pg. 2-38)

FF2 2: T1-E&M Tie Lines (future use) (pg. 2-115)

Exchange Line COS: Fast-Busy Tone to Private Line

0003 :0
NN:FBT CONT-TIE
(NN=COS 01-16)

(all CPCs) - Version 2.0 or higher

Set whether the system will send fast-busy tone or disconnect the line when errors (such as wrong dialling) occur on a private line in this Class of Service (COS).

FF1 0 04 (00-15) 03 Hold (0 or 1) Hold

FF1 System

(00-15): Exchange Line COS Nos. 1-16	
00=COS #1	**08**=COS #9
01=COS #2	**09**=COS #10
02=COS #3	**10**=COS #11
03=COS #4	**11**=COS #12
04=COS #5	**12**=COS #13
05=COS #6	**13**=COS #14
06=COS #7	**14**=COS #15
07=COS #8	**15**=COS #16

0=Enable Fast-Busy Tone to private line. (default)

1=Disable Fast-Busy Tone (line disconnected).

Notes:

Related Programming:

FF2 0: AC-15 Private Lines (pg. 2-38)

FF2 2: T1-E&M Tie Lines (future use) (pg. 2-115)

Exchange Line COS: DDI/CLI Table

0004 :0
NN:DID TBL

(all CPCs) - Version 2.0 or higher

(NN=COS 01-16)

Set the DDI/CLI Table used for routing an incoming DDI/CLI call to the appropriate extension(s) on exchange lines in this Class of Service (COS).

FF1 0 04 (00-15) 04 Hold (0 or 1) Hold

(00-15): Exchange Line COS Nos. 1-16	
00=COS #1	**08**=COS #9
01=COS #2	**09**=COS #10
02=COS #3	**10**=COS #11
03=COS #4	**11**=COS #12
04=COS #5	**12**=COS #13
05=COS #6	**13**=COS #14
06=COS #7	**14**=COS #15
07=COS #8	**15**=COS #16

0=Use "A" side DDI/CLI Table. (default)
1=Use "B" side DDI/CLI Table.

FF1 System

Notes:

Two separate DDI/CLI Tables are provided: "A" side and "B" side. One can be used for analog, the other for digital numbers. Another advantage of having two separate tables: it wouldn't be a problem to receive the same block of 4-digit numbers from the public exchange, such as 277-[2020 thru 2099] and 366-[2020 thru 2099]. The system could take care of routing the same 4-digit number to different extensions, based on which side ("A" or "B") the exchange line belongs to. (Exchange Lines are assigned to "A" or "B" side via their **Exchange Line COS** assignment in FF2.)

Related Programming:

DDI/CLI Dial Table ("A" Side) (pg. 1-184) **FF1 4 02 (000-575) (1-6) Hold (0-9999 or 1-72) Hold**
DDI/CLI Dial Table ("B" Side) (pg. 1-187) **FF1 4 04 (000-575) (1-6) Hold (0-9999 or 1-72) Hold**

Exchange Line COS: Paging on DISA/Private Line Call

0005 :0
NN:Paging TRS
(NN=COS 01-16)

(all CPCs) - Version 2.0 or higher

Set whether a DISA or AC-15 private line caller can page on exchange lines in this Class of Service (COS).

FF1 0 04 (00-15) 05 Hold (0 or 1) Hold

FF1 System

(00-15): Exchange Line COS Nos. 1-16	
00=COS #1	**08**=COS #9
01=COS #2	**09**=COS #10
02=COS #3	**10**=COS #11
03=COS #4	**11**=COS #12
04=COS #5	**12**=COS #13
05=COS #6	**13**=COS #14
06=COS #7	**14**=COS #15
07=COS #8	**15**=COS #16

0=Do not allow paging during DISA or private line call. (default)

1=Allow paging during DISA or private line call.

Notes:

Related Programming:

Splash Tone: Internal Paging (pg. 1-9) FF1 0 01 0002 Hold (0 or 1) Hold
Paging Answer on Private Line (pg. 1-29) FF1 0 02 0013 Hold (0 or 1) Hold
Paging Timer (Private Line) (pg. 1-148) FF1 1 02 0012 Hold (0-255) Hold
Extension COS: Paging (pg. 1-51) FF1 0 03 (00-15) 15 Hold (0 or 1) Hold
FF2 0: AC-15 Private Lines (pg. 2-38)
FF2 2: T1-E&M Tie Lines (future use) (pg. 2-115)

Exchange Line COS: DISA ID Verification

0006 :0
NN:Check DISA ID

(NN=COS 01-16)

(all CPCs) - Version 2.0 or higher

Set whether DISA ID codes (both incoming and outgoing) will be verified on exchange lines in this Class of Service (COS).

FF1 0 04 (00-15) 06 Hold (0 or 1) Hold

(00-15): Exchange Line COS Nos. 1-16	
00=COS #1	**08**=COS #9
01=COS #2	**09**=COS #10
02=COS #3	**10**=COS #11
03=COS #4	**11**=COS #12
04=COS #5	**12**=COS #13
05=COS #6	**13**=COS #14
06=COS #7	**14**=COS #15
07=COS #8	**15**=COS #16

0=Verify DISA ID Code. (default)
1=Do not verify DISA ID Code.

FF1 System

Notes:

MCO Exchange Line Groups and their interaction with TRS/Call Barring. When MCO-Outgoing exchange line groups are used, and the DISA ID Code is verified, the system will follow the TRS Class (1-50) assigned to the DISA ID Code. If the DISA ID Code is not verified, the system will follow the DISA exchange line's TRS Class assignment.

Related Programming:

DISA ID Codes and TRS Assignments (pg. 1-127) FF1 0 26 (0002-0033) Hold (up to 10 digits or 1-50) Hold
Day1/2/Night Ring Type (FF2 0 for analog exchange lines; FF2 1 for ISDN exchange lines; FF2 2 for T1-CO lines)
Day/Night TRS Class (FF2 0 for analog exchange lines; FF2 1 for ISDN exchange lines; FF2 2 for T1-CO lines)

FF1 0 05: Serial Ports

Serial Port 1: Data Format

0001 :5
P1:Data Format

(all CPCs) - Version 2.0 or higher

FF1
System

Set data transmission format for Serial Port 1.

FF1 0 05 0001 Hold (0-7) Hold

0 = 7 bits -- even parity -- 2 stop bits
1 = 7 bits -- odd parity -- 2 stop bits
2 = 7 bits -- even parity -- 1 stop bit
3 = 7 bits -- odd parity -- 1 stop bit
4 = 8 bits -- no parity -- 2 stop bits
5 = 8 bits -- no parity -- 1 stop bit (default)
6 = 8 bits -- even parity -- 1 stop bit
7 = 8 bits -- odd parity -- 1 stop bit

Notes:

Serial Port 1: The RS-232C connector labeled "CN5" on the SCC Card. A printer (for data output) or modem (for remote programming such as PCAS) can be connected to it.

If you use Serial Port 1, be sure to configure it here and in the **FF1 0 06: Serial Port Output Data** addresses starting on pg. 1-102.

Related Programming:

Call Logging Data to Serial Port (pg. 1-102) **FF1 0 06 0001 Hold (0-2) Hold (pg. 1-102)**
Fault Alarm Data to Serial Port (pg. 1-102) **FF1 0 06 0002 Hold (0-2) Hold (pg. 1-102)**
Programmed Data to Serial Port (pg. 1-103) **FF1 0 06 0003 Hold (0-2) Hold (pg. 1-103)**
Bus Monitor Data to Serial Port (pg. 1-104) **FF1 0 06 0005 Hold (0-2) Hold (pg. 1-104)**

Serial Port 1: Baud Rate

0002 :5
P1:Baud Rate

(all CPCs) - Version 2.0 or higher

Set data transmission speed (bits per second) for Serial Port 1.

FF1 0 05 0002 Hold (0-5) Hold

0=300 bps
1=600 bps
2=1200 bps
3=2400 bps
4=4800 bps
5=9600 bps (default)

Notes:

Related Programming:

Serial Port 1: Protocol

0003 :0
P1:Mode

(all CPCs) - Version 2.0 or higher

Set protocol for Serial Port 1.

FF1 0 05 0003 Hold (0-2) Hold

0=No order (default)
1=Originate mode
2=Answer mode

Notes:

Related Programming:

Serial Port 1: Echo Control (future use)

0004 :0
P1:Echo Control

(all CPCs) - Version 2.0 or higher

Enable/Disable echo for Serial Port 1.

FF1 0 05 0004 Hold (0 or 1) Hold

0=Echo Off (no response) (default)
1=Echo On (response for echo)

FF1
System

Notes:

Related Programming:

Serial Port 1: Maximum Input Digits (future use)

0005 :80
P1:Data Length

(all CPCs) - Version 2.0 or higher

Set the maximum number of digits per block that can be sent to Serial Port 1.

FF1 0 05 0005 Hold (1-255) Hold

Maximum Number of Input Digits to Serial Port 1
default: 80 (digits per block)

Notes:

Related Programming:

RAI Serial Port: Data Format

0017 :5
RAI:Data Format

(all CPCs) - Version 2.0 or higher

Set data transmission format for the Remote Administration Interface (RAI) serial port.

FF1 0 05 0017 Hold (0-7) Hold

0 = 7 bits -- even parity -- 2 stop bits
1 = 7 bits -- odd parity -- 2 stop bits
2 = 7 bits -- even parity -- 1 stop bit
3 = 7 bits -- odd parity -- 1 stop bit
4 = 8 bits -- no parity -- 2 stop bits
5 = 8 bits -- no parity -- 1 stop bit (default)
6 = 8 bits -- even parity -- 1 stop bit
7 = 8 bits -- odd parity -- 1 stop bit

FF1 System

Notes:

(not available in U.S.) **RAI Serial Port:** A serial port on the Remote Administration Interface card, which is mounted "piggyback" on the SCC Card. The RAI serial port is for internal (300-baud) modem.

Related Programming:

FF3 3: RAI Extension Port (pg. 3-45)

RAI Serial Port: Baud Rate

0018 :3
RAI:Baud Rate

(all CPCs) - Version 2.0 or higher

Set data transmission speed (bits per second) for the RAI serial port.

FF1 0 05 0018 Hold (0-5) Hold

0=300 bps
1=600 bps
2=1200 bps
3=2400 bps (default)
4=4800 bps
5=9600 bps

Notes:

Related Programming:

RAI Serial Port: Protocol

0019 :0
RAI:Mode

(all CPCs) - Version 2.0 or higher

Set protocol for the RAI serial port.

FF1 0 05 0019 Hold (0-2) Hold

0=No order (default)
1=Originate mode
2=Answer mode

FF1
System

Notes:

Related Programming:

RAI Serial Port: Echo Control

0020 :0
RAI:Echo Control

(all CPCs) - Version 2.0 or higher

Enable/Disable echo for the RAI serial port.

FF1 0 05 0020 Hold (0 or 1) Hold

0=Echo Off; no response (default)
1=Echo On; response for echo

Notes:

Related Programming:

RAI Serial Port: Maximum Input Digits

0021 :1
RAI:Data Length

(all CPCs) - Version 2.0 or higher

Set the maximum number of digits that can be sent from the RAI serial port.

FF1 0 05 0021 Hold (1-255) Hold

Maximum Number of Input Digits to RAI Serial Port

default: 1 (digit)

FF1 System

Notes:

To use Remote Maintenance, set this address to "1" (digit).

Related Programming:

Serial Port 2: Data Format

0033 :5
P2:Data Format

(all CPCs) - Version 2.0 or higher

Set data transmission format for Serial Port 2.

FF1 0 05 0033 Hold (0-7) Hold

0 = 7 bits -- even parity -- 2 stop bits
1 = 7 bits -- odd parity -- 2 stop bits
2 = 7 bits -- even parity -- 1 stop bit
3 = 7 bits -- odd parity -- 1 stop bit
4 = 8 bits -- no parity -- 2 stop bits
5 = 8 bits -- no parity -- 1 stop bit (default)
6 = 8 bits -- even parity -- 1 stop bit
7 = 8 bits -- odd parity -- 1 stop bit

Notes:

Serial Port 2: The RS-232C connector labelled "CN6" on the SCC Card. A printer (for data output) or modem (for remote programming such as PCAS) can be connected to it.

If you use Serial Port 2, be sure to configure it here and in the **FF1 0 06: Serial Port Output Data** addresses starting on pg. 1-102.

Related Programming:

Call Logging Data to Serial Port (pg. 1-102) FF1 0 06 0001 Hold (0-2) Hold
Fault Alarm Data to Serial Port (pg. 1-102) FF1 0 06 0002 Hold (0-2) Hold

Programmed Data to Serial Port (pg. 1-103) **FF1 0 06 0003 Hold (0-2) Hold**
Bus Monitor Data to Serial Port (pg. 1-104) **FF1 0 06 0005 Hold (0-2) Hold**

FF1
System

Serial Port 2: Baud Rate

0034 :5
P2:Baud Rate

(all CPCs) - Version 2.0 or higher

Set data transmission speed (bits per second) for Serial Port 2.

FF1 0 05 0034 Hold (0-5) Hold

0=300 bps
1=600 bps
2=1200 bps
3=2400 bps
4=4800 bps
5=9600 bps (default)

Notes:

Related Programming:

Serial Port 2: Protocol

0035 :0
P2:Mode

(all CPCs) - Version 2.0 or higher

Set protocol for Serial Port 2.

FF1 0 05 0035 Hold (0-2) Hold

0=No order (default)
1=Originate mode
2=Answer mode

Notes:

Related Programming:

Serial Port 2: Echo Control

0036 :0
P2:Echo Control

(all CPCs) - Version 2.0 or higher

Enable/Disable echo for Serial Port 2.

FF1 0 05 0036 Hold (0 or 1) Hold

0=Echo Off; no response (default)
1=Echo On; response for echo

Notes:

Related Programming:

Serial Port 2: Maximum Input Digits

0037 :80
P2:Data Length

(all CPCs) - Version 2.0 or higher

Set the maximum number of digits that can be sent from Serial Port 2.

FF1 0 05 0037 Hold (1-255) Hold

Maximum Number of Input Digits to Serial Port 2
default: 80 digits

Notes:

Related Programming:

FF1 0 06: Serial Port Output Data

NOTE: Serial Port 1 is the "CN5" RS-232C connector on the SCC Card. Serial Port 2 is the "CN6" RS-232C connector on the SCC Card. These serial ports can be used for separate printer and modem connections. If you use these serial ports, be sure to configure them here and in the ***FF1 0 05: Serial Ports*** *addresses starting on 1-94.*

FF1
System

Call Logging Data to Serial Port

0001 :1
SMDR Data

(all CPCs) - Version 2.0 or higher

Set the serial port (if any) to receive Call Logging data.

FF1 0 06 0001 Hold (0-2) Hold

0=no output
1=Serial Port 1 (default)
2=Serial Port 2

Notes:

Related Programming:

Call Logging Output Format (pg. 1-107) **FF1 0 09 0001 Hold (0-2) Hold**

Fault Alarm Data to Serial Port

0002 :0
Sys Alarm Data

(all CPCs) - Version 2.0 or higher

Set the serial port (if any) to receive fault alarm data from the phone system.

FF1 0 06 0002 Hold (0-2) Hold

0=none (default)
1=Serial Port 1
2=Serial Port 2

Notes:

Related Programming:

Programmed Data to Serial Port

0003 :2
Program Data

(all CPCs) - Version 2.0 or higher

Set the serial port (if any) to receive programmed settings.

FF1 0 06 0003 Hold (0-2) Hold

0=none
1=Serial Port 1
2=Serial Port 2 (default)

FF1
System

Notes:

Related Programming:

Not Used

(all CPCs) - Version 2.0 or higher

FF1 0 06 0004 Hold

0004 :
Not Used

Bus Monitor Data to Serial Port

0005 :2
Bus Monitor (IN)

(all CPCs) - Version 2.0 or higher

Set the serial port (if any) to receive bus monitor data.

FF1 0 06 0005 Hold (0-2) Hold

0=none
1=Serial Port 1
2=Serial Port 2 (default)

FF1
System

Notes:

Related Programming:

FF1 0 07 and 08: PBX Parameters

Auto Pause Position Behind PBX

0001 :0
PBX Pause for 1

(all CPCs) - Version 2.0 or higher

Set where a pause will be inserted in automatically-dialled numbers such as PBX access codes, SSD numbers, Redial, and PSD numbers.

FF1 0 07 (0001-0012) Hold (0-16) Hold

Address No. for the First Digit Dialled:
- 0001=”1” key
- 0002=”2” key
- 0003=”3” key
- 0004=”4” key
- 0005=”5” key
- 0006=”6” key
- 0007=”7” key
- 0008=”8” key
- 0009=”9” key
- 0010=”0” key
- 0011=”✶” key
- 0012=”#” key

0=no pause inserted (default for all except “9”)
1=insert pause after first dialled digit (default for “9”)
2=insert pause after 2nd dialled digit
3=insert pause after 3rd dialled digit
...
16=insert pause after 16th dialled digit

Notes:

The pause allows time for the phone system to connect to the PBX/Centrex before outpulsing the digits.

Related Programming:

Pause Timer (pg. 1-130) FF1 1 01 0004 Hold (1-255) Hold

PBX Exchange Line Access Codes

0001 :9
PBX Code 1

(all CPCs) - Version 2.0 or higher

Define up to 6 PBX access codes that, when dialled, will access an exchange line in ICX systems installed behind a PBX.

(to clear current assignment)

FF1 0 08 (0001-0006) Hold FL/R (0-9999) Hold

Code Entry No. 1-6

PBX Access Code (up to 4 digits)

defaults: 0001: 9
0002 thru 0006: [no assignment]

FF1 System

Notes:

Related Programming:

Exchange Line Connection Type (Public Exchange/PBX) ...

- **for analog exchange lines (pg. 2-20) FF2 0 BSSC 02 04 Hold (0 or 1) Hold**
- **for AC-15 private lines (pg. 2-48) FF2 0 BSSC 02 04 Hold (0 or 1) Hold**
- **for ISDN exchange lines (pg. 2-66) FF2 1 BSSC 03 00 Hold (0 or 1) Hold**
- **for T1-CO lines (pg. 2-97) *(USA only)* FF2 2 BSSCC 03 03 Hold (0 or 1) Hold**
- **for T1-E&M tie lines (pg. 2-126) *(USA only)* FF2 2 BSSCC 03 03 Hold (0 or 1) Hold**

FF1 0 09: Call Logging Output Format

Call Logging Output Format

0001 :1
SMDR Format

(all CPCs) - Version 2.0 or higher

Select the format (if any) for Call Logging data output.

FF1 0 09 0001 Hold (0-2) Hold

0=no Call Logging output
1=Format #1 (default)
2=Format #2

Notes:

Format #1 (default) contains the following information:

- Call Condition Code (e.g., "I" for incoming call; "S" for DISA incoming call; "s" for DISA outgoing call; etc.)
- Call Start Time
- Call Duration Time
- Exchange Line User No. (extension no. or exchange line no.)
- Exchange Line No. (when the line is disconnected while the call is on hold)
- Dialled No.
- Accounting Code
- Verified Account Code

Format #2 includes all the information in Format #1, plus the following:

- Caller Data
- ISDN Charge Data

For examples of Formats #1 and #2, see *Section 300-Installation* or *Section 700-Feature Operation.*

Set this address to "Format #2" for the Caller ID Log Outdialling feature.

Related Programming:

Call Logging Data to Serial Port (pg. 1-102) FF1 0 06 0001 Hold (0-2) Hold
Caller ID Log Outgoing Add Digits (pg. 1-125) FF1 0 25 0001 Hold (up to 4 char.) Hold

FF1 0 10 and 11: Call Restriction Between COS

Call Restriction Between Extension COS

0001 :0
TRS E.COS 01-->01

(all CPCs) - Version 2.0 or higher

FF1
System

Allow/Restrict intercom calling between extensions, based on their assigned Class of Service (COS).

FF1 0 10 (00-15) (01-16) Hold (0 or 1) Hold

COS of extension ***placing*** the call:	
00=COS 1	08=COS 9
01=COS 2	09=COS 10
02=COS 3	10=COS 11
03=COS 4	11=COS 12
04=COS 5	12=COS 13
05=COS 6	13=COS 14
06=COS 7	14=COS 15
07=COS 8	15=COS 16

COS of extension ***receiving*** the call:	
01=COS 1	09=COS 9
02=COS 2	10=COS 10
03=COS 3	11=COS 11
04=COS 4	12=COS 12
05=COS 5	13=COS 13
06=COS 6	14=COS 14
07=COS 7	15=COS 15
08=COS 8	16=COS 16

0=Allow calling. (default)
1=Do not allow calling.

Notes:

Related Programming:

FF1 0 03: Extension COS Definitions (pg. 1-35)
Extension COS Assignment (pg. 3-26) for digital keyphones & SLTs FF3 0 BSSC 07 Hold (1-16) Hold
Extension COS Assignment (pg. 3-38) for ISDN extensions FF3 1 BSSC 06 Hold (1-16) Hold
Extension COS Assignment (pg. 3-44) for Virtual Ports FF3 2 (001-576) 03 Hold (1-16) Hold

Call Restriction Between Exchange Line COS

0001 :0
TRS C.COS 01-->01

(all CPCs) - Version 2.0 or higher

Allow/Restrict calling between exchange lines (such as Exch.Line-to-Exch.Line transfers or Call Forward/Outside) based on the exchange line's Class of Service.

FF1 0 11 (00-15) (01-16) Hold (0 or 1) Hold

COS of exchange line **placing** the call:

00=COS 1
01=COS 2
02=COS 3
03=COS 4
04=COS 5
05=COS 6
06=COS 7
07=COS 8
08=COS 9
09=COS 10
10=COS 11
11=COS 12
12=COS 13
13=COS 14
14=COS 15
15=COS 16

COS of exchange line **receiving** the call:

01=COS 1
02=COS 2
03=COS 3
04=COS 4
05=COS 5
06=COS 6
07=COS 7
08=COS 8
09=COS 9
10=COS 10
11=COS 11
12=COS 12
13=COS 13
14=COS 14
15=COS 15
16=COS 16

0=Allow calling. (default)
1=Do not allow calling.

FF1 System

Notes:

This address will not affect DISA outgoing calls.

Related Programming:

FF1 0 04: Exchange Line COS Definitions (pg. 1-88)
Extension COS: Onhook Exch.Line-to-Exch.Line Transfer (pg. 1-81) FF1 0 03 (00-15) 45 Hold (0 or 1) Hold
Extension COS: Call Forward-Outside (pg. 1-80) FF1 0 03 (00-15) 44 Hold (0 or 1) Hold
Exchange Line COS Assignment (pg. 2-36) for analog exchange lines FF2 0 BSSC 07 Hold (1-16) Hold
Exchange Line COS Assignment (pg. 2-59) for AC-15 private lines FF2 0 BSSC 07 Hold (1-16) Hold
Exchange Line COS Assignment (pg. 2-83) for ISDN exchange lines FF2 1 BSSC 08 Hold (1-16) Hold
Trunk COS Assignment (pg. 2-113) for T1-CO lines *(USA only)* FF2 2 BSSCC 08 Hold (1-16) Hold
Trunk COS Assignment (pg. 2-136) for T1-E&M tie lines *(USA only)* FF2 2 BSSCC 08 Hold (1-16) Hold

FF1 0 12, 13, and 14: MOH Source

MOH Source for Exchange Lines

0001 :0
Tenant01 CO MOH

(all CPCs) - Version 2.0 or higher

Select the Music-On-Hold (MOH) source heard by exchange line callers on hold, based on the MCO Tenant Group assigned to the exchange line.

FF1

System

FF1 0 12 (0001-0072) Hold (0-3) Hold

Address No. for MCO Tenant Group:
- 0001=MCO Tenant Group #1
- 0002=MCO Tenant Group #2
- ...
- 0072=MCO Tenant Group #72

0=internal single tone
1=external MOH source
2=internal melody *(not available in USA)*
3=silence

default: 0 (USA and U.K.)
2 (all others)

NOTE: Available range of MCO Tenant Groups is determined by the CPC installed, and the number of CCUs specified in programming (see **0: System Configuration**).

CPC INSTALLED		NO. OF CCUS SPECIFIED IN PROGRAMMING					
(shaded cells not available with this CPC)	CPC-96:	1	2	3	4	5	6
	CPC-288:	1	2	3	4	5	6
	CPC-576:	1	2	3	4	5	6
max. MCO Tenant Groups:		12	24	36	48	60	72
corresponding Addresses:		0001-0012	0001-0024	0001-0036	0001-0048	0001-0060	0001-0072

Notes:

Related Programming:

Tenant Group Assignment (pg. 2-35) for analog exchange lines FF2 0 BSSC 05 Hold (0-72) Hold

Tenant Group Assignment (B-Channel) (pg. 2-81) for ISDN exchange lines FF2 1 BSSC 06 (00-23/30) Hold (0-72) Hold

Tenant Group Assignment (pg. 2-112) for T1-CO lines *(USA only)* FF2 2 BSSCC 06 Hold (1-72) Hold

MOH Source for Private Lines

0001 :0
Tenant01 TIE MOH

(all CPCs) - Version 2.0 or higher

Select the Music-On-Hold (MOH) source heard by private line callers on hold, based on the MCO Tenant Group assigned to the private line.

FF1 0 13 (0001-0072) Hold (0-3) Hold

Address No. for MCO Tenant Group:
- 0001=MCO Tenant Group #1
- 0002=MCO Tenant Group #2
- ...
- 0072=MCO Tenant Group #72

0=internal single tone (default-all)
1=external MOH source
2=internal melody *(not available in USA)*
3=silence

NOTE: Available range of MCO Tenant Groups is determined by the CPC installed, and the number of CCUs specified in programming (see **0: System Configuration**).

CPC INSTALLED		NO. OF CCUS SPECIFIED IN PROGRAMMING					
(shaded cells not available with this CPC)	CPC-96:	1	2	3	4	5	6
	CPC-288:	1	2	3	4	5	6
	CPC-576:	1	2	3	4	5	6
max. MCO Tenant Groups:		12	24	36	48	60	72
corresponding Addresses:		0001-0012	0001-0024	0001-0036	0001-0048	0001-0060	0001-0072

Notes:

Related Programming:

Tenant Group Assignment (pg. 2-57) for AC-15 private lines FF2 0 BSSC 05 Hold (0-72) Hold
Tenant Group Assignment (pg. 2-134) for T1-E&M tie lines *(USA only)* FF2 2 BSSCC 06 Hold (0-72) Hold

MOH Source for Intercom Calls

0001 :0
Tenant01 EXT MOH

(all CPCs) - Version 2.0 or higher

Select the Music-On-Hold (MOH) source heard by intercom callers on hold, based on the MCO Tenant Group assigned to the extension.

FF1 0 14 (0001-0072) Hold (0-3) Hold

FF1 System

Address No. for MCO Tenant Group:
- 0001=MCO Tenant Group #1
- 0002=MCO Tenant Group #2
- ...
- 0072=MCO Tenant Group #72

0=internal single tone (default-all)
1=external MOH source
2=internal melody *(not available in USA)*
3=silence

NOTE: Available range of MCO Tenant Groups is determined by the CPC installed, and the number of CCUs specified in programming (**0: System Configuration**).

CPC INSTALLED		NO. OF CCUS SPECIFIED IN PROGRAMMING					
(shaded cells not available with this CPC)	CPC-96:	1	2	3	4	5	6
	CPC-288:	1	2	3	4	5	6
	CPC-576:	1	2	3	4	5	6
max. MCO Tenant Groups:		12	24	36	48	60	72
corresponding Addresses:		0001-0012	0001-0024	0001-0036	0001-0048	0001-0060	0001-0072

Notes:

Related Programming:

Tenant Group Assignment (pg. 3-24) for digital keyphone/SLT extensions FF3 0 BSSC 05 Hold (1-72) Hold
Tenant Group Assignment (pg. 3-36) for ISDN extensions FF3 1 BSSC 04 Hold (1-72) Hold
Tenant Group Assignment (pg. 3-43) for Virtual Ports FF3 2 (001-576) 02 Hold (1-72) Hold
Tenant Group Assignment (pg. 3-45) for RAI Port FF3 3 01 Hold (1-72) Hold

FF1 0 15, 16, and 17: SSD Blocks

NOTE: Use these addresses to set up groups or "blocks" of SSD numbers, and assign them to MCO Tenant Groups. You can also set up an "SSD common block" that can be used by all extensions.

SSD Block Assignment to MCO Tenant Groups

0001 :1
Tenant01 SSD BLK

(all CPCs) - Version 2.0 or higher

Assign System Speed Dial (SSD) blocks to MCO Tenant Groups. Extensions that belong to an MCO Tenant Group can use the SSD codes within the assigned SSD block.

FF1 0 15 (0001-0072) Hold (0-72) Hold

Address No. for MCO Tenant Group:
0001=MCO Tenant Group #1
0002=MCO Tenant Group #2
...
0072=MCO Tenant Group #72

0=no SSD Block assignment (can use SSDs in common block only)
1=SSD Block #1 (default)
2=SSD Block #2
3=SSD Block #3
...
72=SSD Block #72

NOTE: Available range of MCO Tenant Groups is determined by the CPC installed, and the number of CCUs specified in programming (**0: System Configuration**).

CPC INSTALLED		NO. OF CCUS SPECIFIED IN PROGRAMMING					
(shaded cells not available with this CPC)	CPC-96:	1	2	3	4	5	6
	CPC-288:	1	2	3	4	5	6
	CPC-576:	1	2	3	4	5	6
max. MCO Tenant Groups:		12	24	36	48	60	72
corresponding Addresses:		0001-0012	0001-0024	0001-0036	0001-0048	0001-0060	0001-0072

Notes:

Related Programming:

SSD Assignment to Groups (pg. 1-23) FF1 0 02 0003 Hold (0 or 1) Hold
Extension COS: SSD Dialling (pg. 1-47) FF1 0 03 (00-15) 11 Hold (0 or 1) Hold
SSD Common Block for MCO Tenant Groups (pg. 1-114) FF1 0 16 0001 Hold (0-800) Hold
SSD Block Table (pg. 1-114) FF1 0 17 (0001-0144) Hold (0-799 or 0-800) Hold
Tenant Group MCO Access: Outbound Exchange-Line Groups (pg. 1-177) FF1 3 01 (0001-0360) Hold (0-99 or 0-72) Hold

SSD Common Block for MCO Tenant Groups

0001 :0
Common SSD #

(all CPCs) - Version 2.0 or higher

Set the number of System Speed Dial (SSD) bins allowed for all MCO Tenant Groups.

FF1 0 16 0001 Hold (0-800) Hold

Number of SSD Bins Allowed
default: 0 [no common block]

For example, an entry of "100" means that all MCO Tenant Groups can use SSDs 0-99.

FF1 System

Notes:

If **SSD Assignment to Groups** is disabled (default), the system will ignore this address, which means that all extensions will be able to use all SSD codes.

Related Programming:

SSD Assignment to Groups (pg. 1-23) FF1 0 02 0003 Hold (0 or 1) Hold

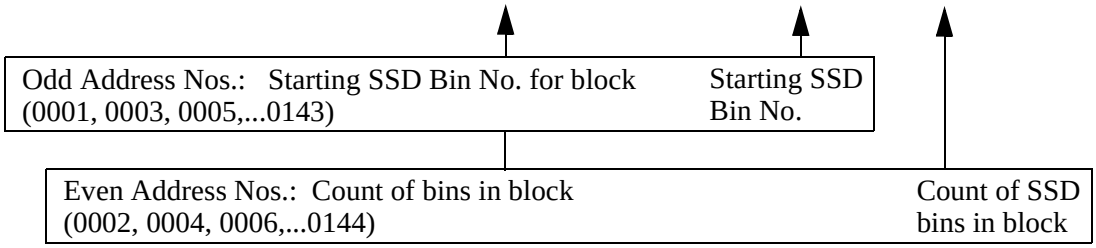
SSD Block Table

0001 :0
SSD BLK01 TOP #

(all CPCs) - Version 2.0 or higher

Build SSD Blocks in this table, by specifying ranges or "blocks" of System Speed Dial bins. Each SSD Block can be assigned to an MCO Tenant Group for exclusive use (in **FF1 0 15**).

FF1 0 17 (0001-0144) Hold (0-799 or 0-800) Hold



(see table, next page for defaults)

Notes:

If **SSD Assignment to Groups** is disabled (default), the system will ignore this address, which means that all extensions in all Tenant Groups will be able to use all SSD codes.

Related Programming:

SSD Assignment to Groups (pg. 1-23) FF1 0 02 0003 Hold (0 or 1) Hold
SSD Block Assignment to MCO Tenant Groups (pg. 1-113) FF1 0 15 (0001-0072) Hold (0-72) Hold

Table 1-4. SSD Block Table (FF1 0 17)

Block Nos. 1-36	Address/Default for Starting SSD		Address/Default for SSD Count		Block Nos. 37-72	Address/Default for Starting SSD		Address/Default for SSD Count	
1	0001	0	0002	80	**37**	0073	0	0074	0
2	0003	80	0004	80	**38**	0075	0	0076	0
3	0005	160	0006	80	**39**	0077	0	0078	0
4	0007	240	0008	80	**40**	0079	0	0080	0
5	0009	320	0010	80	**41**	0081	0	0082	0
6	0011	400	0012	80	**42**	0083	0	0084	0
7	0013	480	0014	80	**43**	0085	0	0086	0
8	0015	560	0016	80	**44**	0087	0	0088	0
9	0017	640	0018	80	**45**	0089	0	0090	0
10	0019	720	0020	80	**46**	0091	0	0092	0
11	0021	0	0022	0	**47**	0093	0	0094	0
12	0023	0	0024	0	**48**	0095	0	0096	0
13	0025	0	0026	0	**49**	0097	0	0098	0
14	0027	0	0028	0	**50**	0099	0	0100	0
15	0029	0	0030	0	**51**	0101	0	0102	0
16	0031	0	0032	0	**52**	0103	0	0104	0
17	0033	0	0034	0	**53**	0105	0	0106	0
18	0035	0	0036	0	**54**	0107	0	0108	0
19	0037	0	0038	0	**55**	0109	0	0110	0
20	0039	0	0040	0	**56**	0111	0	0112	0
21	0041	0	0042	0	**57**	0113	0	0114	0
22	0043	0	0044	0	**58**	0115	0	0116	0
23	0045	0	0046	0	**59**	0117	0	0118	0
24	0047	0	0048	0	**60**	0119	0	0120	0
25	0049	0	0050	0	**61**	0121	0	0122	0
26	0051	0	0052	0	**62**	0123	0	0124	0
27	0053	0	0054	0	**63**	0125	0	0126	0
28	0055	0	0056	0	**64**	0127	0	0128	0
29	0057	0	0058	0	**65**	0129	0	0130	0
30	0059	0	0060	0	**66**	0131	0	0132	0
31	0061	0	0062	0	**67**	0133	0	0134	0
32	0063	0	0064	0	**68**	0135	0	0136	0
33	0065	0	0066	0	**69**	0137	0	0138	0
34	0067	0	0068	0	**70**	0139	0	0140	0
35	0069	0	0070	0	**71**	0141	0	0142	0
36	0071	0	0072	0	**72**	0143	0	0144	0

FF1 0 18: Synchronised Clock

Synchronised Clock

0001 :
1st SYNC Clock

(all CPCs) - Version 2.0 or higher

Prioritise clock sources for digital (ISDN and T1) exchange lines that will synchronise with the public exchange.

FF1

System

FF1 0 18 (0001-0003) Hold (BSS/C) Hold

0001=1st-priority network
0002=2nd-priority network
0003=3rd-priority network

CCU/Slot/Exch.Line Port No.:
B=CCU 1-6
SS=Slot 01-14
C=Exch.Line Port 1-4
(enter "BSS" for PRI and T1)
(enter "BSSC" for BRI)

default: [none]

Notes:

If using a T1 or T-point ISDN interface, **Synchronised Clock** settings are required to prevent data transmission errors, or noise during voice conversations.

Related Programming:

FF2 1: ISDN Exchange Lines (pg. 2-60)
FF2 2: T1-CO Lines (future use) (pg. 2-86)

FF1 0 19: TRS Class for Forced Account Codes

TRS Class for Forced Account Codes

0001 :1
TRS for F-ACCD

(all CPCs) - Version 2.0 or higher

Set the TRS (Call Barring) Class that will be followed when Account codes are Forced, but the Account Code is not entered for an outgoing call.

FF1 0 19 0001 Hold (1-50) Hold

TRS Class No. (1-50)
default: 1

Notes:

Forced Account Codes: User must enter an Account Code for every outgoing and incoming call, before he/she can access an outside line. Forced Account Codes can be either Verified (checked against programmed Table for validity; call is blocked if no match found) or Unverified (accepted; call is allowed). Account Codes are used for call expense tracking in Call Logging reports.

Verified Account Codes can each have their own TRS Class assignment (see FF8 1 04).

Related Programming:

Verified Account Codes (pg. 8-50) FF8 1 04 Hold Hold (001-500) 0001 Hold FL/R (up to 10 digits) Hold
TRS Class for Verified Account Codes (pg. 8-50) FF8 1 04 Hold Hold (001-500) 0002 Hold (1-50) Hold
Forced Account Codes (pg. 3-21) (enable/disable on ext.) FF3 0 BSSC 04 24 Hold (0 or 1) Hold
Verified Account Codes (pg. 3-22) (enable/disable on ext.) FF3 0 BSSC 04 25 Hold (0 or 1) Hold

FF1 0 20: Ext.No. Display for Closed-Number Calls

Ext.No. Display for Closed-Number Calls

0001 :0
Closed Display

(all CPCs) - Version 2.0 or higher

FF1
System

Assign the closed-numbered digits to use in the system's Extension Directory. Based on the digits, the system will look up the extension name *within its own PBX* (not in another).

FF1 0 20 0001 Hold (0-4) Hold

0= 0 digit (default)
1= 1 digit
2= 2 digits
3= 3 digits
4= 4 digits

Notes:

If you ***originate*** a network call, this will display.

Related Programming:

FF6 2 07: Closed Number Table (pg. 6-44)
Extension Index (pg. 8-49) FF8 1 03 Hold 1 Hold Hold (1 or 2) Hold FL/R (up to 4 char.) Hold

FF1 0 21: Ring Alarm for Unanswered Calls

Ring Alarm Frequency

0001 :1
Ring ALM FREQ

(all CPCs) - Version 2.0 or higher

Set the ringing frequency that will begin after an incoming call rings unanswered for longer than the **Slide Ring/Alarm Ring Timer.**

FF1 0 21 0001 Hold (0-6) Hold

0=no ring
1=400/562 Hz (default)
2=1000/1340 Hz
3=400 Hz
4=800/1040 Hz
5=1040/1320 Hz
6=660/1320 Hz

Notes:

Alarm Ringing: Ringing frequency/interval changes for an incoming call that rings unanswered for longer than the **Slide Ring/Alarm Ring Timer.**

Alarm Ringing will not work while Slide Ringing or Delayed Ringing is occurring.

Related Programming:

Slide Ring/Alarm Ring Timer (Day1) (pg. 1-145) FF1 1 02 0007 Hold (0-255) Hold
Slide Ring/Alarm Ring Timer (Day2) (pg. 1-146) FF1 1 02 0008 Hold (0-255) Hold
Slide Ring/Alarm Ring Timer (Night) (pg. 1-146) FF1 1 02 0009 Hold (0-255) Hold
Alarm Ringing (pg. 2-25) for analog exchange lines FF2 0 BSSC 02 13 Hold (0 or 1) Hold
Alarm Ringing (pg. 2-69) for ISDN exchange lines FF2 1 BSSC 03 06 Hold (0 or 1) Hold
Alarm Ringing (pg. 2-101) for T1-CO lines *(USA only)* FF2 2 BSSCC 03 11 Hold (0 or 1) Hold

Ring Alarm Pattern

0002 :1
Ring ALM PTRN

(all CPCs) - Version 2.0 or higher

Set the ring pattern that will begin after an incoming call rings unanswered for longer than the **Slide Ring/Alarm Ring Timer**.

FF1 0 21 0002 Hold (0-12) Hold

FF1
System

Setting Values for U.K.		Setting Values for USA and Hong Kong	
0	Synchronise with public exchange	**0**	No ring alarm
1	**1on/2off (default) (in seconds)**	**1**	1on/3off (in seconds)
2	2on/1off	**2**	2on/2off
3	1on/1off	**3**	3on/1off
4	.5on/.5off	**4**	1on/1off
5	.25on/2.75off	**5**	**.5on/.5off (default)**
6	.25on/.25off/.25on/2.25off	**6**	.5on/3.5off
7	.25on/.25off/.25on/.25off/.25on/1.75off	**7**	.5on/.5off/.5on/2.5off
8	.75on/.25off/.75on/1.25off	**8**	.25on/.25off/.25on/3.25off
9	1on/.25off/.25on/1.5off	**9**	1on/.25off/.25on/2.5off
10	1on/.25off/.25on/.25off/.25on/1off	**10**	1on/.25off/.25on/.25off/.25on/2off
11	1.375on/.125off/.125on/.125off/.125on/.125off	**11**	1.375on/.125off/.125on/.125off/.125on/.125off
12	Continuous tone	**12**	Continuous tone

Notes:

Alarm Ringing will not work while Slide Ringing or Delayed Ringing is occurring.

Related Programming:

Slide Ring/Alarm Ring Timer (Day1) (pg. 1-145) FF1 1 02 0007 Hold (0-255) Hold
Slide Ring/Alarm Ring Timer (Day2) (pg. 1-146) FF1 1 02 0008 Hold (0-255) Hold
Slide Ring/Alarm Ring Timer (Night) (pg. 1-146) FF1 1 02 0009 Hold (0-255) Hold
Alarm Ringing (pg. 2-25) for analog exchange lines FF2 0 BSSC 02 13 Hold (0 or 1) Hold
Alarm Ringing (pg. 2-69) for ISDN exchange lines FF2 1 BSSC 03 06 Hold (0 or 1) Hold
Alarm Ringing (pg. 2-101) for T1-CO lines *(USA only)* FF2 2 BSSCC 03 11 Hold (0 or 1) Hold

FF1 0 22: Dealer Programming ID Code

Dealer Programming ID Code

0001 :9999
Program ID Code

(all CPCs) - Version 2.0 or higher

Set the ID code for entering dealer programming: **ON/OFF PROG ** [Code]**

FF1 0 22 0001 Hold (0000-9999) Hold

4-digit Dealer Programming ID Code

default: 9999

FF1
System

Notes:

Related Programming:

Programming Mode Entry (pg. 1-15) **FF1 0 01 0012 Hold (0 or 1) Hold**

FF1 0 23 and 24: Voice Mail Codes

VM Answer Supervision Code

0001 :
VM Answer Dial

(all CPCs) - Version 2.0 or higher

Set the Answer Supervision code for 3rd-party Voice Mail.

FF1

System

FF1 0 23 0001 Hold (0000-9999) Hold

4-digit VM Answer Supervision Code

default: [no assignment]

Notes:

This assignment must match the 3rd-party Voice Mail system's Answer Supervision code.

Related Programming:

SLT Voice Mail Connection (pg. 3-11) FF3 0 BSSC 04 06 Hold (0 or 1) Hold
Call-Forward ID Codes for Voice Mail (pg. 8-51) FF8 1 05 Hold Hold (0-9999) Hold FL/R (up to 16 char.) Hold

VM Transfer Code #1: Prefix

0001 :
VM-TRF #1/Prefix

(all CPCs) - Version 2.0 or higher

Assign a prefix that will be automatically dialled in front of VM Transfer Code #1 (74 + nnnn) when transferring a call directly to 3rd-party Voice Mail.

FF1 0 24 0001 Hold (up to 8 char.) Hold

NOTE: Enter a pause in this address by pressing Soft Key #4.

VM Transfer Code #1 Prefix (up to 8 characters, including 0-9, ✻, #, and Pause)

default: [no assignment]

Notes:

Two different Transfer Keys can be programmed for 3rd-party Voice Mail systems:

- ❒ **Transfer Code #1 (74 + nnnn)** transfers a call to a specific voice mail port.
- ❒ **Transfer Code #2 (75 + nnnn)** transfers a call to the Voice Mail pilot number.

See **FF-Key Feature Assignment (Digital Keyphones, SLTs, EM/24s) (pg. 4-7)** for instructions on programming both Transfer Keys.

Related Programming:

FF-Key Feature Assignment (pg. 4-7) **FF4 0 BSSC 0 (01-32) Hold FL/R (Code) Hold**
Call-Forward ID Codes for Voice Mail (pg. 8-51) **FF8 1 05 Hold Hold (0-9999) Hold FL/R (up to 16 char.) Hold**

VM Transfer Code #1: Suffix

0002 : VM-TRF #1/Suffix

(all CPCs) - Version 2.0 or higher

Assign a suffix that will be automatically dialled after VM Transfer Code #1 (74 + nnnn) when transferring a call directly to 3rd-party Voice Mail.

FF1 0 24 0002 Hold (up to 8 char.) Hold

NOTE: Enter a pause in this address by pressing Soft Key #4.

VM Transfer Code #1 Suffix (up to 8 characters, including 0-9, ∗, #, and Pause)

default: [no assignment]

Notes:

Two different Transfer Keys can be programmed for 3rd-party Voice Mail systems:

- ❒ **Transfer Code #1 (74 + nnnn)** transfers a call to a specific voice mail port.
- ❒ **Transfer Code #2 (75 + nnnn)** transfers a call to the Voice Mail pilot number.

See **FF-Key Feature Assignment (Digital Keyphones, SLTs, EM/24s) (pg. 4-7)** for instructions on programming both Transfer Keys.

Related Programming:

FF-Key Feature Assignment (pg. 4-7) **FF4 0 BSSC 0 (01-32) Hold FL/R (Code) Hold**
Call-Forward ID Codes for Voice Mail (pg. 8-51) **FF8 1 05 Hold Hold (0-9999) Hold FL/R (up to 16 char.) Hold**

VM Transfer Code #2: Prefix

0003 : VM-TRF #2/Prefix

(all CPCs) - Version 2.0 or higher

Assign a prefix that will be automatically dialled in front of VM Transfer Code #2 (75 + nnnn) when transferring a call directly to 3rd-party Voice Mail.

FF1 0 24 0003 Hold (up to 8 char.) Hold

NOTE: Enter a pause in this address by pressing Soft Key #4.

VM Transfer Code #2 Prefix (up to 8 characters, including 0-9, ∗, #, and Pause)

default: [no assignment]

Notes:

Two different Transfer Keys can be programmed for 3rd-party Voice Mail systems:

- ❒ **Transfer Code #1 (74 + nnnn)** transfers a call to a specific voice mail port.
- ❒ **Transfer Code #2 (75 + nnnn)** transfers a call to the Voice Mail pilot number.

See **FF-Key Feature Assignment (Digital Keyphones, SLTs, EM/24s) (pg. 4-7)** for instructions on programming both Transfer Keys.

Related Programming:

FF1 System

FF-Key Feature Assignment (pg. 4-7) **FF4 0 BSSC 0 (01-32) Hold FL/R (Code) Hold**
Call-Forward ID Codes for Voice Mail (pg. 8-51) **FF8 1 05 Hold Hold (0-9999) Hold FL/R (up to 16 char.) Hold**

VM Transfer Code #2: Suffix

0004 : VM-TRF #2/Suffix

(all CPCs) - Version 2.0 or higher

Assign a suffix that will be automatically dialled after VM Transfer Code #2 (75 + nnnn) when transferring a call directly to 3rd-party Voice Mail.

FF1 0 24 0004 Hold (up to 8 char.) Hold

NOTE: Enter a pause in this address by pressing Soft Key #4.

VM Transfer Code #2 Suffix (up to 8 characters, including 0-9, ✻, #, and Pause)

default: [no assignment]

Notes:

Two different Transfer Keys can be programmed for 3rd-party Voice Mail systems:

- ❒ **Transfer Code #1 (74 + nnnn)** transfers a call to a specific voice mail port.
- ❒ **Transfer Code #2 (75 + nnnn)** transfers a call to the Voice Mail pilot number.

See **FF-Key Feature Assignment (Digital Keyphones, SLTs, EM/24s) (pg. 4-7)** for instructions on programming both Transfer Keys.

Related Programming:

FF-Key Feature Assignment (pg. 4-7) **FF4 0 BSSC 0 (01-32) Hold FL/R (Code) Hold**
Call-Forward ID Codes for Voice Mail (pg. 8-51) **FF8 1 05 Hold Hold (0-9999) Hold FL/R (up to 16 char.) Hold**

FF1 0 25: Caller ID Add Digits

Caller ID Log Outgoing Add Digits

0001 :
CID Add-Dial

(all CPCs) - Version 2.0 or higher

Enter the digits (up to 4) that will be added to the beginning of an outgoing Caller ID number (selected from the displayed Caller ID Log).

FF1 0 25 0001 Hold (up to 4 char.) Hold

Caller ID Add Digits (up to 4 characters, including 0-9, ✻, and #)

default: [no assignment]

FF1 System

Notes:

On 44-series display phones, press the ***left*** soft key next to the displayed Caller ID Log phone number, to automatically seize MCO-1 ("9") and outdial the Add Digits and the number. On 43-series display phones, press the AUTO key.

To outdial "9" and the Caller ID Log phone number without the Add Digits in front of it, press the ***right*** soft key (or, on 43-series display phones, press REDIAL).

A maximum of 20 extension phones per CCU can have the Caller ID Log feature. It will store and display the last 10 Caller ID calls received at that extension. To display the Log, press CONF 96 at intercom dial tone.

The Add Digits and the Caller ID phone number are subject to TRS/ARS after the "9" is dialled. They can be redialled by pressing the REDIAL key. Call Logging reports will show the first 24 digits of a Caller ID phone number that was outdialled (Call Logging must be set to Format #2 in FF1 0 09). Caller ID information will also be sent to an installed TAPI device.

Related Programming:

Caller ID Log Outgoing Control (pg. 1-20) FF1 0 01 0021 Hold (0 or 1) Hold
Caller ID Log Private/Out-of-Area Control (pg. 1-20) FF1 0 01 0022 Hold (0 or 1) Hold
Call Logging Output Format (pg. 1-107) FF1 0 09 0001 Hold (0-2) Hold

FF1 0 26: DISA ID Codes

DISA ID Code Numbering

0001 :0
DISA ID Digits

(all CPCs) - Version 2.0 or higher

FF1
System

Enter the digit length of DISA ID Codes.

FF1 0 26 0001 Hold (0-10) Hold

Digit Length of DISA ID Codes:
0=none/no code needed to get DISA service (default)
1=1-digit Codes
2=2-digit Codes
3=3-digit Codes
...
10=10-digit Codes

Notes:

DISA (Direct Inward System Access): By dialling the DISA exchange line's public-exchange phone number, outside callers can dial into the phone system, and have full access to all the system's features without going through the Attendant (including the ability to transfer themselves to different extensions, or dial-out on another exchange line). To set up DISA, set the exchange line for DISA service in the **Ring Type** addresses (FF2). Create DISA ID Codes and assign TRS Classes to them in FF1 0 26 0002-0033 (see next address).

Related Programming:

Exchange Line COS: DISA ID Verification (pg. 1-93) FF1 0 04 (00-15) 06 Hold (0 or 1) Hold
DISA ID Codes and TRS Assignments (pg. 1-127) FF1 0 26 (0002-0033) Hold (up to 10 digits or 1-50) Hold
Ring Type - Day1/Day2/Night ...
for analog exchange lines (pg. 2-28) FF2 0 BSSC 03 (0, 2 and 4) Hold (0-6) Hold
for ISDN exchange lines (pg. 2-75) FF2 1 BSSC 04 (0, 2 and 4) Hold (0-6) Hold
for T1-CO lines (pg. 2-106) *(USA only)* FF2 2 BSSCC 04 (0, 2 and 4) Hold (0-6) Hold

DISA ID Codes and TRS Assignments

(all CPCs) - Version 2.0 or higher

0002 :
DISA01:ID Code

0003 :0
DISA01:TRS Class

Enter up to 16 valid DISA Security Codes, each of which can be dialled by a DISA caller to access an outside line after calling into the system. Also, assign a TRS (Call Barring) Class to each DISA Code.

FF1 0 26 (0002-0033) Hold (up to 10 digits or 1-50) Hold

Address Nos. for DISA ID Codes #1 thru #16:

0002=Code #1
0003=Code #1 TRS Class
0004=Code #2
0005=Code #2 TRS Class
0006=Code #3
0007=Code #3 TRS Class
0008=Code #4
0009=Code #4 TRS Class
0010=Code #5
0011=Code #5 TRS Class
0012=Code #6
0013=Code #6 TRS Class
0014=Code #7
0015=Code #7 TRS Class
0016=Code #8
0017=Code #8 TRS Class
0018=Code #9
0019=Code #9 TRS Class
0020=Code #10
0021=Code #10 TRS Class
0022=Code #11
0023=Code #11 TRS Class
0024=Code #12
0025=Code #12 TRS Class
0026=Code #13
0027=Code #13 TRS Class
0028=Code #14
0029=Code #14 TRS Class
0030=Code #15
0031=Code #15 TRS Class
0032=Code #16
0033=Code #16 TRS Class

for Addresses 0002, 0004, 0006, 0008, 0010, 0012, ... 0032:

DISA ID Code
(maximum 10 digits, including 0-9, ∗ and #)

default: [no assignment]

for Addresses 0003, 0005, 0007, 0009, 0011, 0013 ... 0033:

TRS Class Assignment (1-50)

default: 0 (no TRS Class)

FF1 System

Notes:

Digit length of DISA ID Codes entered in this address depends on the setting in **DISA ID Code Numbering** (see previous page).

Related Programming:

DISA ID Code Numbering (pg. 1-126) **FF1 0 26 0001 Hold (0-10) Hold**
Exchange Line COS: DISA ID Verification (pg. 1-93) **FF1 0 04 (00-15) 06 Hold (0 or 1) Hold**
FF6 1: TRS Class Definitions (pg. 6-16)

FF1 1: System Timers

FF1 1 01: Exchange Line Timer 1

FF1
System

Flash Timer 1 for Exchange Line

0001 :50
Flash Timer 1

(all CPCs) - Version 2.0 or higher

Set the length of time a flash signal to an exchange line will last when the extension user depresses the FL/R or PROG key. Applies when **Flash Pattern #1** is programmed for the exchange line.

FF1 1 01 0001 Hold (1-255) Hold

1 = (1 x 16 ms) = 16 ms
2 = (2 x 16 ms) = 32 ms
3 = (3 x 16 ms) = 48 ms
...
124 = (124 x 16 ms) = 1,984 ms or 1.984 seconds
125 thru 255 = same value (2.5 ms)

default: 50 = (50 x 16 ms) = 800 ms

Notes:

Related Programming:

Flash Pattern ...

for analog exchange lines (pg. 2-19) FF2 0 BSSC 02 01 Hold (0 or 1) Hold
for AC-15 private lines (pg. 2-47) FF2 0 BSSC 02 01 Hold (0 or 1) Hold
for T1-CO lines (pg. 2-96) *(USA only)* FF2 2 BSSCC 03 01 Hold (0 or 1) Hold
for T1-E&M tie lines (pg. 2-125) *(USA only)* FF2 2 BSSCC 03 01 Hold (0 or 1) Hold

Flash Timer 2 for Exchange Line

0002 :5
Flash Timer 2

(all CPCs) - Version 2.0 or higher

Set the length of time a flash signal to an exchange line will last when the extension user depresses the FL/R or PROG key. Applies when **Flash Pattern #2** is programmed for the exchange line. Also applies when the phone system is behind a PBX, and the user needs to send a Recall signal to the PBX to place the call on hold at the PBX.

FF1 1 01 0002 Hold (1-255) Hold

1 = (1 x 16 ms) = 16 ms
2 = (2 x 16 ms) = 32 ms
3 = (3 x 16 ms) = 48 ms
...
124 = (124 x 16 ms) = 1,984 ms or 1.984 seconds
125 thru 255 = same value (2.5 seconds)

default: 5 (80 ms)

FF1 System

Notes:

When the phone does not have the FL/R key, the end-user must press the FF-key programmed with the Flash/Recall code (*39 by default) to send the Recall signal.

Related Programming:

Flash Pattern ...

for analog exchange lines (pg. 2-19) FF2 0 BSSC 02 01 Hold (0 or 1) Hold
for AC-15 private lines (pg. 2-47) FF2 0 BSSC 02 01 Hold (0 or 1) Hold
for T1-CO lines (pg. 2-96) *(USA only)* FF2 2 BSSCC 03 01 Hold (0 or 1) Hold
for T1-E&M tie lines (pg. 2-125) *(USA only)* FF2 2 BSSCC 03 01 Hold (0 or 1) Hold

Flash Timer for Auto-Repeat Dial

0003 :124
ARD Flash Timer

(all CPCs) - Version 2.0 or higher

Set the length of time a flash signal to an exchange line will last during Auto-Repeat Dial.

FF1 1 01 0003 Hold (1-255) Hold

1 = (1 x 16 ms) = 16 ms
2 = (2 x 16 ms) = 32 ms
3 = (3 x 16 ms) = 48 ms
...
124 = (124 x 16 ms) = 1,984 ms or 1.984 seconds (default)
125 thru 255 = same value (2.5 seconds)

Notes:

Auto Repeat Dial: Place a call to a busy party. Stay in monitor mode and press REDIAL. System automatically redials the number, and repeats redialling until ringback is heard or 14 auto-repeat attempts have been made.

Related Programming:

Start Timer for Public-Exchange Busy Tone Detect (Auto-Repeat Dial) (pg. 1-135) **FF1 1 01 0014 Hold (1-255) Hold**

Public-Exchange Busy Tone Detect Timer (Auto-Repeat Dial) (pg. 1-136) **FF1 1 01 0015 Hold (1-255) Hold**

FF1
System

Pause Timer

0004 :3
Pause Timer

(all CPCs) - Version 2.0 or higher

Set the length of a pause inserted in automatically-dialled numbers (such as speed-dialling).

FF1 1 01 0004 Hold (1-255) Hold

1 = 1 second
2 = 2 seconds
3 = 3 seconds (default)
...
255 = 255 seconds or 4 minutes/15 seconds

Notes:

This address ***does not affect*** pauses in PBX access codes.

Related Programming:

PSD Numbers (pg. 8-44) **FF8 1 01 Hold 0 Hold Hold (0-9999) Hold (PSD) Hold FL/R (up to 24 char.) Hold**

SSD Numbers (pg. 8-46) **FF8 1 02 Hold 0 Hold Hold (00/0-79/9) Hold FL/R (up to 24 char.) Hold**

Call Duration Timer (Public Exchange Line)

0005 :10
Call Duration CO

(all CPCs) - Version 2.0 or higher

Set the length of time the system will wait before starting call duration timing for outbound analog exchange line calls, if the public exchange does not send back an answer signal when the called party answers.

FF1 1 01 0005 Hold (1-255) Hold

1=1 second
2=2 seconds
...
255=255 seconds (or 4 min./15 sec.)

default: 10 seconds

Notes:

Related Programming:

Call Duration (pg. 2-20) for public exchange lines **FF2 0 BSSC 02 03 Hold (0 or 1) Hold**

Call Duration Timer (Private Line)

0006 :10
Answer SIG TIE

(all CPCs) - Version 2.0 or higher

Set the length of time the system will wait before starting call duration timing for outbound private-line calls, if the called-party end does not send back an answer signal.

FF1 1 01 0006 Hold (1-255) Hold

1=1 second
2=2 seconds
...
255=255 seconds (or 4 min./15 sec.)

default: 10 seconds

Notes:

Related Programming:

Outpulse Delay Timer (Public Exchange Line)

0007 :1
Dial Delay CO

(all CPCs) - Version 2.0 or higher

Set the length of a pause before outpulsing dialled digits for speed dial, or after an analog exchange line is seized in a MCO exchange line group.

FF1 1 01 0007 Hold (1-255) Hold

1=1 second
2=2 seconds
...
255=255 seconds (or 4 min./15 sec.)

default: 1 second

FF1 System

Notes:

Related Programming:

Outpulse Delay Timer (Private Line/Immediate-Start)

0008 :1
Dial Delay A-Tie

(all CPCs) - Version 2.0 or higher

Set the length of a pause before outpulsing dialled digits on an AC-15 private line set for Immediate-Start signalling.

FF1 1 01 0008 Hold (1-255) Hold

1=1 second (default)
2=2 seconds
...
255=255 seconds or 4 min./15 sec.

Notes:

Related Programming:

FF2 0: AC-15 Private Lines (pg. 2-38)

Pre-Pause Timer (ISDN Exchange Line)

0009 :30
ISDN Pre-Pause

(all CPCs) - Version 2.0 or higher

Set the length of time the system will wait for the first dialled digit after an ISDN exchange line is seized.

FF1 1 01 0009 Hold (1-255) Hold

1=1 second
2=2 seconds
...
255=255 seconds (or 4 min./15 sec.)

default: 30 seconds

Notes:

Related Programming:

FF2 1: ISDN Exchange Lines (pg. 2-60)

Interdigit Timer (ARS and ISDN Exchange Line)

0010 :10
ISDN Interdigit

(all CPCs) - Version 2.0 or higher

Set the length of time the system will wait for the next dialled digit before sending re-order tone. Applies to outbound calls on an ISDN exchange line.
(all CPCs) - Version 2.5 and higher: Also applies to ARS-routed calls.

FF1 1 01 0010 Hold (1-255) Hold

1=1 second
2=2 seconds
...
255=255 seconds (or 4 min./15 sec.)

default: 10 seconds

Notes:

(all CPCs - Version 2.5 and higher) Interdigit Timers for non-ARS calls start on pg. 1-154.

Related Programming:

ISDN Outgoing Control (pg. 1-19) FF1 0 01 0019 Hold (0 or 1) Hold
FF2 1: ISDN Exchange Lines (pg. 2-60)
Queuing Timer (ARS) (pg. 1-149) FF1 1 02 0014 Hold (0-255) Hold

Not Used

(all CPCs) - Version 2.0 or higher

FF1 1 01 0011 Hold

0011 :30
Not Used

FF1 1 01 0012 Hold

0012 :10
Not Used

FF1
System

Wink Wait Timer (AC-15 Private Lines)

0013 :5
Wink Wait A-TIE

(all CPCs) - Version 2.0 or higher

Set the length of time the system will wait for a wink signal after an AC-15 private line is accessed for an outbound call.

FF1 1 01 0013 Hold (1-255) Hold

1=1 second
2=2 seconds
...
255=255 seconds (or 4 min./15 sec.)

default: 5 seconds

Notes:

Related Programming:

Private Line Signal Type (pg. 2-39) for AC-15 private lines **FF2 0 BSSC 01 00 Hold (0-5) Hold**

Start Timer for Public-Exchange Busy Tone Detect (Auto-Repeat Dial)

0014 :5
ARD BT Start

(all CPCs) - Version 2.0 or higher

Set the length of time the system will wait after the last auto-dialled digit is sent to the public-exchange (on an analog exchange line) during an Auto-Repeat Dial, before starting the **Public-Exchange Busy Tone Detect Timer (Auto-Repeat Dial)** (see next address). This allows time for the public-exchange to connect the call before the system starts looking for busy tone.

FF1 1 01 0014 Hold (1-255) Hold

1=1 second
2=2 seconds
...
255=255 seconds (or 4 min./15 sec.)

default: 5 seconds

Notes:

Auto Repeat Dial: Place a call to a busy party. Stay in monitor mode and press REDIAL. System automatically redials the number, and repeats redialling until ringback is heard or 14 auto-repeat attempts have been made.

Related Programming:

Flash Timer for Auto-Repeat Dial (pg. 1-129) FF1 1 01 0003 Hold (1-255) Hold
Public-Exchange Busy Tone Detect Timer (Auto-Repeat Dial) (pg. 1-136) FF1 1 01 0015 Hold (1-255) Hold

Public-Exchange Busy Tone Detect Timer (Auto-Repeat Dial)

0015 :30
ARD BT Timer

(all CPCs) - Version 2.0 or higher

Set the length of time the system will wait for a busy tone signal from the public-exchange after the **Start Timer for Public-Exchange Busy Tone Detect (Auto-Repeat Dial)** (see previous address) has expired. This setting helps determine whether the next Auto-Repeat Dial will be performed.

FF1 1 01 0015 Hold (1-255) Hold

1=1 second
2=2 seconds
...
255=255 seconds (or 4 min./15 sec.)

default: 30 seconds

Notes:

Auto Repeat Dial: Place a call to a busy party. Stay in monitor mode and press REDIAL. System automatically redials the number, and repeats redialling until ringback is heard or 14 auto-repeat attempts have been made.

Related Programming:

Flash Timer for Auto-Repeat Dial (pg. 1-129) FF1 1 01 0003 Hold (1-255) Hold
Start Timer for Public-Exchange Busy Tone Detect (Auto-Repeat Dial) (pg. 1-135) FF1 1 01 0014 Hold (1-255) Hold

DTMF ON: Pattern #1

0016 :16
DTMF 1 ON Time

(all CPCs) - Version 2.0 or higher

Set the duration of the DTMF signal for a digit dialled during an outbound call.

FF1 1 01 0016 Hold (1-255) Hold

(value=setting x 5ms): 1 = (1 x 5 ms) = 5 ms
2 = (2 x 5 ms) = 10 ms
3 = (3 x 5 ms) = 15 ms
...
255 = (255 x 5 ms) = 1,275 ms (or 1.275 sec.)

default: 16 = (16 x 5 ms) = 80 ms

DTMF OFF: Pattern #1

0017 :16
DTMF 1 OFF Time

(all CPCs) - Version 2.0 or higher

Set the pause between DTMF signals for digits dialled during an outbound call.

FF1 1 01 0017 Hold (1-255) Hold

(value=setting x 5ms): 1 = (1 x 5 ms) = 5 ms
2 = (2 x 5 ms) = 10 ms
3 = (3 x 5 ms) = 15 ms
...
255 = (255 x 5 ms) = 1,275 ms (or 1.275 sec.)

default: 9 = (9 x 5 ms) = 45 ms off *(USA)*
10 = (10 x 5 ms) = 50 ms off *(Hong Kong, Taiwan, Malaysia, Indonesia)*
16 = (16 x 5 ms) = 80 ms off *(U.K.)*

FF1 System

Notes:

The above settings (in conjunction with each other) can be assigned to individual exchange-line ports. These settings will apply to the phone number dialled, as well as additional digits dialled after connecting -- such as entering an account number, or selecting from a voice menu.

Power-Off Requirement. Power cycling (power-off, then power-on) is required after changing these settings.

(all CPCs - Version 2.5 and higher) DTMF ON/OFF Pattern #1 will be used whenever the system sends ID codes to voicemail. See **Call-Forward ID Codes for Voice Mail** (pg. 8-51).

Related Programming:

DTMF On/Off Pattern During Talk ...
- **(pg. 2-15) for analog exchange lines FF2 0 BSSC 01 13 Hold (0-2) Hold**
- **(pg. 2-44) for AC-15 private lines FF2 0 BSSC 01 13 Hold (0-2) Hold**
- **(pg. 2-65) for ISDN exchange lines FF2 1 BSSC 02 03 Hold (0-2) Hold**
- **(pg. 2-93) for T1-CO lines *(USA only)* FF2 2 BSSCC 02 10 Hold (0-2) Hold**
- **(pg. 2-122) for T1-E&M tie lines *(USA only)* FF2 2 BSSCC 02 10 Hold (0-2) Hold**

DTMF On/Off Pattern for Outgoing Dialling ...
- **(pg. 2-15) for analog exchange lines FF2 0 BSSC 01 14 Hold (0-2) Hold**
- **(pg. 2-44) for AC-15 private lines FF2 0 BSSC 01 14 Hold (0-2) Hold**
- **(pg. 2-93) for T1-CO lines *(USA only)* FF2 2 BSSCC 02 11 Hold (0-2) Hold**
- **(pg. 2-122) for T1-E&M tie lines *(USA only)* FF2 2 BSSCC 02 11 Hold (0-2) Hold**

Call-Forward ID Codes for Voice Mail (pg. 8-51) FF8 1 05 Hold Hold (0-9999) Hold FL/R (up to 16 char.) Hold

DTMF ON/OFF: Pattern #2

0018 :1
DTMF2 ON/OFF

(all CPCs) - Version 2.0 or higher

Set the DTMF signal pattern for digits dialled during an outbound call.

FF1 1 01 0018 Hold (1-255) Hold

(value=setting x 125ms): **1 = (1 x 125 ms) = 125 on/125 off (default)**
2 = (2 x 125 ms) = 250 on/250 off
3 = (3 x 125 ms) = 375 on/375 off
...
255 = (255 x 125 ms) = 31,875 (or 31.875 sec.) on/ 31,875 off

FF1 System

Notes:

The above setting can be assigned to individual exchange-line ports. It will apply to the phone number dialled, as well as additional digits dialled after connecting -- such as entering an account number, or selecting from a voice menu.

Power-Off Requirement. Power cycling (power-off, then power-on) is required after changing this setting.

Related Programming:

DTMF On/Off Pattern During Talk ...
- **(pg. 2-15) for analog exchange lines FF2 0 BSSC 01 13 Hold (0-2) Hold**
- **(pg. 2-44) for AC-15 private lines FF2 0 BSSC 01 13 Hold (0-2) Hold**
- **(pg. 2-65) for ISDN exchange lines FF2 1 BSSC 02 03 Hold (0-2) Hold**
- **(pg. 2-93) for T1-CO lines *(USA only)* FF2 2 BSSCC 02 10 Hold (0-2) Hold**
- **(pg. 2-122) for T1-E&M tie lines *(USA only)* FF2 2 BSSCC 02 10 Hold (0-2) Hold**

DTMF On/Off Pattern for Outgoing Dialling ...
- **(pg. 2-15) for analog exchange lines FF2 0 BSSC 01 14 Hold (0-2) Hold**
- **(pg. 2-44) for AC-15 private lines FF2 0 BSSC 01 14 Hold (0-2) Hold**
- **(pg. 2-93) for T1-CO lines *(USA only)* FF2 2 BSSCC 02 11 Hold (0-2) Hold**
- **(pg. 2-122) for T1-E&M tie lines *(USA only)* FF2 2 BSSCC 02 11 Hold (0-2) Hold**

DTMF ON/OFF: Pattern #3

0019 :2
DTMF3 ON/OFF

(all CPCs) - Version 2.0 or higher

Set the DTMF signal pattern for digits dialled during an outbound call.

FF1 1 01 0019 Hold (1-255) Hold

(value=setting x 125ms): 1 = (1 x 125 ms) = 125 on/125 off
2 = (2 x 125 ms) = 250 on/250 off (default)
3 = (3 x 125 ms) = 375 on/375 off
...
255 = (255 x 125 ms) = 31,875 (or 31.875 sec.) on/ 31,875 off

Notes:

The above setting can be assigned to individual exchange-line ports. It will apply to the phone number dialled, as well as additional digits dialled after connecting -- such as entering an account number, or selecting from a voice menu.

Power-Off Requirement. Power cycling (power-off, then power-on) is required after changing this setting.

Related Programming:

DTMF On/Off Pattern During Talk ...
- **(pg. 2-15) for analog exchange lines FF2 0 BSSC 01 13 Hold (0-2) Hold**
- **(pg. 2-44) for AC-15 private lines FF2 0 BSSC 01 13 Hold (0-2) Hold**
- **(pg. 2-65) for ISDN exchange lines FF2 1 BSSC 02 03 Hold (0-2) Hold**
- **(pg. 2-93) for T1-CO lines *(USA only)* FF2 2 BSSCC 02 10 Hold (0-2) Hold**
- **(pg. 2-122) for T1-E&M tie lines *(USA only)* FF2 2 BSSCC 02 10 Hold (0-2) Hold**

DTMF On/Off Pattern for Outgoing Dialling ...
- **(pg. 2-15) for analog exchange lines FF2 0 BSSC 01 14 Hold (0-2) Hold**
- **(pg. 2-44) for AC-15 private lines FF2 0 BSSC 01 14 Hold (0-2) Hold**
- **(pg. 2-93) for T1-CO lines *(USA only)* FF2 2 BSSCC 02 11 Hold (0-2) Hold**
- **(pg. 2-122) for T1-E&M tie lines *(USA only)* FF2 2 BSSCC 02 11 Hold (0-2) Hold**

FF1 1 02: Exchange Line Timer 2

DISA No-Answer Timer #1

0001 :30
DISA N-ANS1

(all CPCs) - Version 2.0 or higher

FF1
System

Set how long the system will wait before changing an unanswered DISA call to multiple-incoming ringing.

FF1 1 02 0001 Hold (0-255) Hold

(setting=no. of seconds):
0 = 5 seconds
1 = 1 second
2 = 2 seconds
...
255 = 255 seconds

default: 30 seconds

Notes:

This address does not affect DDI (Direct Dialling Inward) calls, which (if unanswered) will continue to ring an idle extension indefinitely, or until the user performs another action on the phone (such as accessing another exchange line for an outgoing call) while the DDI call is ringing. At that point, the DDI call will change to multiple-incoming ringing. ***NOTE:*** The user will not be able to perform another action on the phone if the extension's **Exchange-Line Key Operation: Direct Calls (pg. 3-14)** setting is left at "1=Ignore key press (default)," in which case the DDI call will continue to ring the extension.

Multiple-Incoming Ringing: An incoming exchange-line call will ring on all extensions that have a line appearance (FF-key) for that exchange line. The exchange line's **Ring Type** must be set to "0=Multiple Incoming (default)" in FF2. Exchange Lines are assigned to FF-keys in FF4.

DDI (Direct Dialling Inward): An outside caller can reach an internal extension directly by dialling a 7-digit public-exchange phone number. The DDI exchange line passes the last 2 to 4 digits of the phone number to the PBX, and the digits become (or are modified to become) the equivalent of an extension number. DDI exchange lines can't be used for outgoing calls (no dialtone offered). To set up DDI, set the exchange line for DDI in the **Ring Type** addresses (FF2). Enter the DDI numbers and assign their ring and delayed-ring destinations in **FF1 4: DDI/CLI Tables** (see pg. 1-183).

DISA (Direct Inward System Access): By dialling the DISA exchange line's public-exchange phone number, an outside caller can dial into the phone system, and have full access to all the system's features without going through the Attendant (including the ability to transfer himself to different extensions, or dial-out on another exchange line). To set up DISA, set the exchange line for DISA service in the **Ring Type** addresses (FF2). Create DISA ID Codes and assign TRS Classes to them in **FF1 0 26: DISA ID Codes** (see pg. 1-126).

Related Programming:

DISA No-Answer Timeout (pg. 1-31) FF1 0 02 0017 Hold (0 or 1) Hold

DISA ID Code Numbering (pg. 1-126) FF1 0 26 0001 Hold (0-10) Hold
DISA ID Codes and TRS Assignments (pg. 1-127) FF1 0 26 (0002-0033) Hold (up to 10 digits or 1-50) Hold
Exchange Line COS: Incoming Ring Tone Source (pg. 1-88) FF1 0 04 (00-15) 01 Hold (0 or 1) Hold
Ring Pattern for exchange lines ...
(pg. 2-14) for analog exchange lines FF2 0 BSSC 01 12 Hold (0-12) Hold
(pg. 2-64) for ISDN exchange lines FF2 1 BSSC 02 02 Hold (0-12) Hold
(pg. 2-92) for T1-CO lines *(USA only)* FF2 2 BSSCC 02 09 Hold (0-12) Hold
Ring Type for exchange lines (set for DISA) ...
(pg. 2-28) for analog exchange lines FF2 0 BSSC 03 (0, 2 and 4) Hold (2) Hold
(pg. 2-75) for ISDN exchange lines FF2 1 BSSC 04 (0, 2 and 4) Hold (2) Hold
(pg. 2-106) for T1-CO lines *(USA only)* FF2 2 BSSCC 04 (0, 2 and 4) Hold (2) Hold
FF-Key Feature Assignment (Digital Keyphones, SLTs, EM/24s) (pg. 4-7) FF4 0 BSSC 0 (01-32) Hold FL/R (Code) Hold

Multiple Incoming No-Answer Timer #2

0002 :16
DID/DISA N-ANS2

(all CPCs) - Version 2.0 or higher

Set how long the system will wait before reverting a multiple-incoming call (which originally was a DDI or DISA call) to the Attendant Group.

FF1 1 02 0002 Hold (0-255) Hold

(setting=no. of seconds):
0 = 5 seconds
1 = 1 second
2 = 2 seconds
...
255 = 255 seconds

default: 16 seconds

Notes:

Unanswered DISA calls will change to multiple-incoming ringing when the **DISA No-Answer Timer #1** (see previous address) expires.

Unanswered DDI calls will change to multiple-incoming ringing when (or if) the extension performs another action on the phone (such as accessing another outside line) while the DDI call is ringing.

Related Programming:

DISA No-Answer Timer #1 (pg. 1-140) FF1 1 02 0001 Hold (0-255) Hold
FF5 0: Attendant Hunt Group (pg. 5-3)

Exchange-Line Delayed Ring Timer (Day1)

0003 :20
Delayed Day1

(all CPCs) - Version 2.0 or higher

Set how long the system will ring an extension receiving an incoming call during Day1 mode, before moving the call to the Delayed Ring position.

FF1 1 02 0003 Hold (0-255) Hold

(1-255 = no. of seconds):
0 = 5 seconds
1 = 1 second
2 = 2 seconds
...
255 = 255 seconds

default: 20 seconds

FF1 System

Notes:

This timer applies to unanswered incoming calls on a DL (Direct Line) exchange line that has a Delayed Ring position set (in FF2). If no Delayed Ring position is set for the exchange line, this Timer will not apply, and the call will continue to ring the extension indefinitely.

Related Programming:

Day1 Delayed Ring Type/Destination ...
for analog exchange lines (pg. 2-32) FF2 0 BSSC 04 0 Hold (0-4) Hold (0-9999) Hold
for ISDN exchange lines (pg. 2-78) FF2 1 BSSC 05 0 Hold (0-4) Hold (0-9999) Hold
for T1-CO lines (pg. 2-109) *(USA only)* FF2 2 BSSCC 05 0 Hold (0-4) Hold (0-9999) Hold

Exchange-Line Delayed Ring Timer (Day2)

0004 :20
Delayed Day2

(all CPCs) - Version 2.0 or higher

Set how long the system will ring an extension receiving an incoming call during Day2 mode, before moving to the Delayed Ring position.

FF1 1 02 0004 Hold (0-255) Hold

(1-255 = no. of seconds):
0 = 5 seconds
1 = 1 second
2 = 2 seconds
...
255 = 255 seconds

default: 20 seconds

Notes:

This timer applies to unanswered incoming calls on a DL (Direct Line) exchange line that has a Delayed Ring position set (in FF2). If no Delayed Ring position is set for the exchange line, this Timer will not apply, and the call will continue to ring the extension indefinitely.

Related Programming:

Day2 Delayed Ring Type/Destination ...
for analog exchange lines (pg. 2-33) FF2 0 BSSC 04 2 Hold (0-4) Hold (0-9999) Hold
for ISDN exchange lines (pg. 2-79) FF2 1 BSSC 05 2 Hold (0-4) Hold (0-9999) Hold
for T1-CO lines (pg. 2-110) *(USA only)* FF2 2 BSSCC 05 2 Hold (0-4) Hold (0-9999) Hold

Exchange-Line Delayed Ring Timer (Night)

0005 :20
Delayed Night

(all CPCs) - Version 2.0 or higher

Set how long the system will ring an extension receiving an incoming call during Night mode, before moving to the Delayed Ring position.

FF1 1 02 0005 Hold (0-255) Hold

(1-255 = no. of seconds):
0 = 5 seconds
1 = 1 second
2 = 2 seconds
...
255 = 255 seconds

default: 20 seconds

Notes:

This timer applies to unanswered incoming calls on a DL (Direct Line) exchange line that has a Delayed Ring position set (in FF2). If no Delayed Ring position is set for the exchange line, this Timer will not apply, and the call will continue to ring the extension indefinitely.

Related Programming:

Night Delayed Ring Type/Destination ...
for analog exchange lines (pg. 2-34) FF2 0 BSSC 04 4 Hold (0-4) Hold (0-9999) Hold
for ISDN exchange lines (pg. 2-80) FF2 1 BSSC 05 4 Hold (0-4) Hold (0-9999) Hold
for T1-CO lines (pg. 2-111) *(USA only)* FF2 2 BSSCC 05 4 Hold (0-4) Hold (0-9999) Hold

Exchange-Line Delayed Ring Timer (Busy)

0006 :120
DIL Busy Timer

(all CPCs) - Version 2.0 or higher

Set how long the system will queue an incoming call on a busy extension, before moving to the delayed-ring position.

FF1 1 02 0006 Hold (0-255) Hold

FF1 System

0 = 5 seconds **(all CPCs - below Version 2.5)**
or: 0 = Continue to queue the call on the busy extension indefinitely, until it becomes idle. **(all CPCs - Version 2.5 and higher)**

(1-255 = no. of seconds): 1 = 1 second
2 = 2 seconds
...
255 = 255 seconds

default: 120 seconds

Notes:

This **Exchange-Line Delayed Ring Timer (Busy)** applies to all system modes: Day1, Day2, and Night.

(all CPCs - Version 2.5 and higher) If the above address is set to "0=Continue to queue the call," the caller will hear ringback tone while the call is being queued on the busy extension.

(all CPCs - Version 2.5 and higher) If the call is on a DL (Direct Line) exchange line but no Delayed Ring position has been set, the call will be queued on the busy extension until it becomes idle, regardless of the above setting.

Related Programming:

Day1/Day2/Night Delayed Ring Type/Destination ...

for analog exchange lines (pg. 2-32) FF2 0 BSSC 04 0 Hold (0-4) Hold (0-9999) Hold (0-4) Hold...

for ISDN exchange lines (pg. 2-78) FF2 1 BSSC 05 0 Hold (0-4) Hold (0-9999) Hold (0-4) Hold...

for T1-CO lines (pg. 2-109) *(USA only)* FF2 2 BSSCC 05 0 Hold (0-4) Hold (0-9999) Hold (0-4) Hold...

Slide Ring/Alarm Ring Timer (Day1)

0007 :20
Slide Day1

(all CPCs) - Version 2.0 or higher

Set how long an incoming call will ring unanswered before moving to the Slide Ring position(s) or to the Alarm Ring frequency/pattern during Day1 mode.

FF1 1 02 0007 Hold (0-255) Hold

(1-255 = no. of seconds):
0 = 5 seconds
1 = 1 second
2 = 2 seconds
...
255 = 255 seconds

default: 20 seconds

Notes:

Alarm Ringing: Ringing frequency/interval changes for an incoming call that rings unanswered for longer than the **Slide Ring/Alarm Ring Timer.**

Slide Ringing: A type of delayed ringing for extensions with exchange-line appearances. An incoming call on an exchange line enabled for **Slide Ringing** (see FF2) will ring at the assigned extension or hunt group first (see **Day1/2/Night Ring Assignments** in FF2). Then, after the **Slide Ring/Alarm Ring Timer** expires, the call will begin ringing at the extension(s) with line appearances (see **FF-Key Feature Assignment** in FF4).

Related Programming:

Ring Alarm Frequency (pg. 1-119) FF1 0 21 0001 Hold (0-6) Hold
Ring Alarm Pattern (pg. 1-120) FF1 0 21 0002 Hold (0-12) Hold
Alarm Ringing (pg. 2-25) on analog exchange lines FF2 0 BSSC 02 13 Hold (0 or 1) Hold
Slide Ringing (pg. 2-25) on analog exchange lines FF2 0 BSSC 02 14 Hold (0 or 1) Hold
Alarm Ringing (pg. 2-69) on ISDN exchange lines FF2 1 BSSC 03 06 Hold (0 or 1) Hold
Slide Ringing (pg. 2-69) on ISDN exchange lines FF2 1 BSSC 03 07 Hold (0 or 1) Hold
Alarm Ringing (pg. 2-101) on T1-CO lines *(USA only)* FF2 2 BSSCC 03 11 Hold (0 or 1) Hold
Slide Ringing (pg. 2-102) on T1-CO lines *(USA only)* FF2 2 BSSCC 03 12 Hold (0 or 1) Hold

Slide Ring/Alarm Ring Timer (Day2)

0008 :20
Slide Day2

(all CPCs) - Version 2.0 or higher

Set how long an unanswered incoming call will ring before moving to the Slide Ring position(s) or to the Alarm Ring frequency/pattern during Day2 mode.

FF1 1 02 0008 Hold (0-255) Hold

(1-255 = no. of seconds):
0 = 5 seconds
1 = 1 second
2 = 2 seconds
...
255 = 255 seconds

default: 20 seconds

Notes:

Related Programming:

Ring Alarm Frequency (pg. 1-119) FF1 0 21 0001 Hold (0-6) Hold
Ring Alarm Pattern (pg. 1-120) FF1 0 21 0002 Hold (0-12) Hold
Alarm Ringing (pg. 2-25) on analog exchange lines FF2 0 BSSC 02 13 Hold (0 or 1) Hold
Slide Ringing (pg. 2-25) on analog exchange lines FF2 0 BSSC 02 14 Hold (0 or 1) Hold
Alarm Ringing (pg. 2-69) on ISDN exchange lines FF2 1 BSSC 03 06 Hold (0 or 1) Hold
Slide Ringing (pg. 2-69) on ISDN exchange lines FF2 1 BSSC 03 07 Hold (0 or 1) Hold
Alarm Ringing (pg. 2-101) on T1-CO lines *(USA only)* FF2 2 BSSCC 03 11 Hold (0 or 1) Hold
Slide Ringing (pg. 2-102) on T1-CO lines *(USA only)* FF2 2 BSSCC 03 12 Hold (0 or 1) Hold

Slide Ring/Alarm Ring Timer (Night)

0009 :20
Slide Night

(all CPCs) - Version 2.0 or higher

Set how long an unanswered incoming call will ring before moving to the Slide Ring position(s) or to the Alarm Ring frequency/pattern during Night mode.

FF1 1 02 0009 Hold (0-255) Hold

(1-255 = no. of seconds):
0 = 5 seconds
1 = 1 second
2 = 2 seconds
...
255 = 255 seconds

default: 20 seconds

Notes:

Related Programming:

Ring Alarm Frequency (pg. 1-119) FF1 0 21 0001 Hold (0-6) Hold
Ring Alarm Pattern (pg. 1-120) FF1 0 21 0002 Hold (0-12) Hold
Alarm Ringing (pg. 2-25) on analog exchange lines FF2 0 BSSC 02 13 Hold (0 or 1) Hold
Slide Ringing (pg. 2-25) on analog exchange lines FF2 0 BSSC 02 14 Hold (0 or 1) Hold
Alarm Ringing (pg. 2-69) on ISDN exchange lines FF2 1 BSSC 03 06 Hold (0 or 1) Hold
Slide Ringing (pg. 2-69) on ISDN exchange lines FF2 1 BSSC 03 07 Hold (0 or 1) Hold
Alarm Ringing (pg. 2-101) on T1-CO lines *(USA only)* FF2 2 BSSCC 03 11 Hold (0 or 1) Hold
Slide Ringing (pg. 2-102) on T1-CO lines *(USA only)* FF2 2 BSSCC 03 12 Hold (0 or 1) Hold

Long Talk Alarm #1 Timer

0010 :180
Long Talk ALM 1

(all CPCs) - Version 2.0 or higher

Set how long an outgoing call can last before the first Long Talk Alarm tone is sent to the extension.

FF1 1 02 0010 Hold (0-255) Hold

(1-255 = no. of seconds):
0 = 5 seconds
1 = 1 second
2 = 2 seconds
...
255 = 255 seconds

default: 180 seconds

Notes:

Related Programming:

Extension COS: Long Talk Alarm (pg. 1-76) FF1 0 03 (00-15) 40 Hold (0 or 1) Hold
Long Talk Alarm #2 Timer (pg. 1-148) FF1 1 02 0011 Hold (0-255) Hold
Long Talk Alarm (pg. 2-24) on analog exchange lines FF2 0 BSSC 02 12 Hold (0 or 1) Hold
Long Talk Alarm (pg. 2-68) on ISDN exchange lines FF2 1 BSSC 03 05 Hold (0 or 1) Hold
Long Talk Alarm (pg. 2-101) on T1-CO lines *(USA only)* FF2 2 BSSCC 03 10 Hold (0 or 1) Hold

Long Talk Alarm #2 Timer

0011 :60
Long Talk ALM 2

(all CPCs) - Version 2.0 or higher

Set the interval between subsequent Long Talk Alarm tones (after the first tone is sent to the extension during the outbound call -- see previous address).

FF1 1 02 0011 Hold (0-255) Hold

(1-255 = no. of seconds):
0 = 5 seconds
1 = 1 second
2 = 2 seconds
...
255 = 255 seconds

default: 60 seconds

Notes:

Related Programming:

Extension COS: Long Talk Alarm (pg. 1-76) FF1 0 03 (00-15) 40 Hold (0 or 1) Hold
Long Talk Alarm #1 Timer (pg. 1-147) FF1 1 02 0010 Hold (0-255) Hold
Long Talk Alarm (pg. 2-24) on analog exchange lines FF2 0 BSSC 02 12 Hold (0 or 1) Hold
Long Talk Alarm (pg. 2-68) on ISDN exchange lines FF2 1 BSSC 03 05 Hold (0 or 1) Hold
Long Talk Alarm (pg. 2-101) on T1-CO lines *(USA only)* FF2 2 BSSCC 03 10 Hold (0 or 1) Hold

Paging Timer (Private Line)

0012 :30
Paging Time TIE

(all CPCs) - Version 2.0 or higher

Set the amount of time the system will allow a private-line caller to use paging.

FF1 1 02 0012 Hold (0-255) Hold

(1-255 = no. of seconds):
0 = 5 seconds
1 = 1 second
2 = 2 seconds
...
255 = 255 seconds

default: 30 seconds

Notes:

Related Programming:

Exchange Line COS: Paging on DISA/Private Line Call (pg. 1-92) FF1 0 04 (00-15) 05 Hold (0 or 1) Hold
Paging Group Members (pg. 5-23) FF5 4 (01-10) (02-73) Hold (0-9999) Hold

Exch.Line-to-Exch.Line Connection Timer

0013 :60
TRK to TRK Timer

(all CPCs) - Version 2.0 or higher

Set the amount of time the system will monitor an exchange-line-to-exchange-line connection before disconnecting.

FF1 1 02 0013 Hold (0-255) Hold

(1-255 = no. of minutes):
0 = no check (allow indefinitely)
1 = 1 minute
2 = 2 minutes
...
255 = 255 minutes

default: 60 minutes, or 1 hour (USA, U.K.)
3 minutes (all others)

Notes:

Related Programming:

Extension COS: Onhook Exch.Line-to-Exch.Line Transfer (pg. 1-81) FF1 0 03 (00-15) 45 Hold (0 or 1) Hold

Queuing Timer (ARS)

0014 :15
ARS Queuing

(all CPCs) - Version 2.0 or higher

Set the amount of time the system will queue an outbound call through Automatic Route Selection (ARS) for an exchange line to become available.

FF1 1 02 0014 Hold (0-255) Hold

(1-255 = no. of seconds):
0 = 5 seconds
1 = 1 second
2 = 2 seconds
...
255 = 255 seconds

default: 15 seconds

Notes:

If this **Queuing Timer** expires before an exchange line becomes available, the call will either move to the next queuing level or the caller will receive busy tone, depending on ARS settings.

Related Programming:

ARS/LCR Setting (pg. 1-27) **FF1 0 02 0010 Hold (0 or 1) Hold**
Exchange-Line Queuing for Originator (Route List) (pg. 6-21) **FF6 1 01 (01-50) 0003 Hold (0 or 1) Hold**

FF1
System

DDI Delayed Ring Timer

0015 :20
Delayed Via DID

(all CPCs) - Version 2.0 or higher

Set the amount of time a DDI (Direct Dialling Inward) call will ring before moving to the delayed-ring position.

FF1 1 02 0015 Hold (0-255) Hold

(1-255 = no. of seconds):
0 = No delayed ring
1 = 1 second
2 = 2 seconds
...
255 = 255 seconds

default: 20 seconds

Notes:

(all CPCs - Version 2.5 and higher) If the DDI exchange line does not have a Delayed Ring position set, the call will continue to ring the extension indefinitely, or follow its Call-Forward settings (if any).

Related Programming:

DDI/CLI Dial Table ("A" Side) (pg. 1-184) **FF1 4 02 (000-575) (1-6) Hold (0-9999 or 1-72) Hold**
DDI/CLI Dial Table ("B" Side) (pg. 1-187) **FF1 4 04 (000-575) (1-6) Hold (0-9999 or 1-72) Hold**

FF1 1 03: Extension Timer 1

Call Forward/DND Confirmation Tone Timer

0001 :3
CFWD/DND Tone

(all CPCs) - Version 2.0 or higher

Set the duration of the Call Forwarding tone or Do-Not-Disturb confirmation tone sent to an extension when the user goes off-hook or presses ON/OFF while Call Forwarding or DND is activated.

FF1 1 03 0001 Hold (0-255) Hold

0 = no tone issued
1 = 1 second
2 = 2 seconds
3 = 3 seconds (default)
...
255 = 255 seconds

Notes:

Related Programming:

Message-Waiting Tone Timer

0002 :3
MSG Wait Tone

(all CPCs) - Version 2.0 or higher

Set the duration of the Message-Waiting confirmation tone sent to an extension when the user goes off-hook or presses ON/OFF while the extension is in receipt of a message-waiting.

FF1 1 03 0002 Hold (0-255) Hold

0 = no tone issued
1 = 1 second
2 = 2 seconds
3 = 3 seconds (default)
...
255 = 255 seconds

Notes:

Related Programming:

FF1
System

Pre-Pause Timer at Internal Dial Tone (DP SLTs)

0003 :30
Pre-Pause SLTDP

(all CPCs) - Version 2.0 or higher

Set how long the system will wait for the first digit to be dialled on a dial-pulse SLT during internal dial tone, before it sends fast-busy.

FF1 1 03 0003 Hold (0-255) Hold

0 = no check (system waits indefinitely)
1 = 1 second
2 = 2 seconds
...
255 = 255 seconds

default: 30 seconds

Notes:

Related Programming:

Pre-Pause Timer at Internal Dial Tone (DTMF SLTs)

0004 :15
Pre-Pause SLTPB

(all CPCs) - Version 2.0 or higher

Set how long the system will wait for the first digit to be dialled on a DTMF SLT during internal dial tone, before it sends fast-busy.

FF1 1 03 0004 Hold (0-255) Hold

0 = no check (system waits indefinitely)
1 = 1 second
2 = 2 seconds
...
255 = 255 seconds

default: 15 seconds

Notes:

Related Programming:

Pre-Pause Timer at Internal Dial Tone (Digital Keyphones)

0005 :0
Pre-Pause KTEL

(all CPCs) - Version 2.0 or higher

Set how long the system will wait for the first digit to be dialled on a digital keyphone during internal dial tone, before it sends fast-busy.

FF1 1 03 0005 Hold (0-255) Hold

0 = no check (system waits indefinitely)
1 = 1 second
2 = 2 seconds
...
255 = 255 seconds

default: 0 (USA, U.K.)
30 (all others)

Notes:

Related Programming:

Interdigit Timer (DP SLTs)

0006 :15
Interdigit SLTDP

(all CPCs) - Version 2.0 or higher

FF1
System

Set how long the system will wait between dialled digits on a dial-pulse SLT before it sends a re-order tone.

(all CPCs) - Version 2.5 and higher: This address does not apply to calls routed through ARS.
See **Interdigit Timer (ARS and ISDN Exchange Line)** on pg. 1-133 for ARS-routed calls.

FF1 1 03 0006 Hold (0-255) Hold

0 = no check (system waits indefinitely)
1 = 1 second
2 = 2 seconds
...
255 = 255 seconds

default: 15 seconds

Notes:

Related Programming:

ARS/LCR Setting (pg. 1-27) **FF1 0 02 0010 Hold (0 or 1) Hold**

Interdigit Timer (DTMF SLTs)

0007 :15
Interdigit SLTPB

(all CPCs) - Version 2.0 or higher

Set how long the system will wait between dialled digits on a DTMF SLT before it sends a re-order tone.

(all CPCs) - Version 2.5 and higher: This address does not apply to calls routed through ARS.
See **Interdigit Timer (ARS and ISDN Exchange Line)** on pg. 1-133 for ARS-routed calls.

FF1 1 03 0007 Hold (0-255) Hold

0 = no check (system waits indefinitely)
1 = 1 second
2 = 2 seconds
...
255 = 255 seconds

default: 15 seconds

Notes:

Related Programming:

ARS/LCR Setting (pg. 1-27) **FF1 0 02 0010 Hold (0 or 1) Hold**

Interdigit Timer (Digital Keyphones)

0008 :0
Interdigit KTEL

(all CPCs) - Version 2.0 or higher

Set how long the system will wait between dialled digits on a digital keyphone before it sends a re-order tone.

(all CPCs) - Version 2.5 and higher: This address does not apply to calls routed through ARS.
See **Interdigit Timer (ARS and ISDN Exchange Line)** on pg. 1-133 for ARS-routed calls.

FF1 1 03 0008 Hold (0-255) Hold

0 = no check (system waits indefinitely)
1 = 1 second
2 = 2 seconds
...
255 = 255 seconds

default: 0 (USA, U.K.)
30 (all others)

Notes:

Related Programming:

ARS/LCR Setting (pg. 1-27) **FF1 0 02 0010 Hold (0 or 1) Hold**

FF1
System

DTMF Receiver Queuing Timer

0009 :6
DTMF/R SLT PB

(all CPCs) - Version 2.0 or higher

Set how long the system will wait for an available DTMF receiver circuit when a DTMF SLT user goes off-hook.

FF1 1 03 0009 Hold (0-255) Hold

0 = no queuing (immediate busy/re-order tone)
1 = 1 second
2 = 2 seconds
...
255 = 255 seconds

default: 6 seconds

Notes:

The CPC card has 4 built-in DTMF circuits.

DTMF SLTs require the DTMF Receiver Card installed.

Related Programming:

Not Used

(all CPCs) - Version 2.0 or higher

FF1 1 03 0010 Hold

0010 :5
Not Used

FF1 1 03 0011 Hold

0011 :2
Not Used

SLT Off Hook Signal Interval

0012 :10
SLT INCM on Busy

(all CPCs) - Version 2.0 or higher

Set the amount of time between "beeps" heard in the receiver of an SLT phone currently engaged in an intercom or exchange line call, indicating another call is waiting.

FF1 1 03 0012 Hold (0-255) Hold

0 = No off-hook signal
1 = 1 second
2 = 2 seconds
...
255 = 255 seconds

default: 10 seconds

Notes:

The Off-Hook Signal is issued on a queued DL call, a multiple-ringing call (Public-Exchange, MCO, Virtual Ext., or Recall), or a Manual Camp-On.

Related Programming:

Public Exchange Off-Hook Signal (pg. 3-10) on SLT phones **FF3 0 BSSC 04 05 Hold (0 or 1) Hold**

BLF Delayed Ring Timer

0013 :15
BLF Delayed

(all CPCs) - Version 2.0 or higher

Set the timer for delayed ringing on BLF (multiple-ringing) calls.

FF1 1 03 0013 Hold (0-255) Hold

0 = no delayed ringing
1 = 1 second
2 = 2 seconds
...
255 = 255 seconds

default: 15 seconds *(U.K.)*
16 seconds *(all others)*

Notes:

Related Programming:

BLF Call Pickup (pg. 1-24) **FF1 0 02 0006 Hold (0 or 1) Hold**

FF1 1 04: Extension Timer 2

Hold Recall Start Timer (Extensions)

0001 :120
Hold RCL S-KTEL

FF1
System

(all CPCs) - Version 2.0 or higher

Set the amount of time the system will wait before recalling an extension for a call on hold.

FF1 1 04 0001 Hold (0-255) Hold

0 = no recall
1 = 1 second
2 = 2 seconds
...
255 = 255 seconds

default: 120 seconds (USA, U.K.)
60 seconds (all others)

Notes:

Related Programming:

Hold Recall Start Timer (Attendant Group)

0002 :20
Hold RCL S-ATTG

(all CPCs) - Version 2.0 or higher

Set the amount of time the system will wait before recalling an Attendant Group for a call on hold.

FF1 1 04 0002 Hold (0-255) Hold

0 = no recall
1 = 1 second
2 = 2 seconds
...
255 = 255 seconds

default: 20 seconds

Notes:

Related Programming:

FF5 0: Attendant Hunt Group (pg. 5-3)

Hold Recall Start Timer (SLTs)

0003 :0
Hold RCL S-SLT

(all CPCs) - Version 2.0 or higher

Set the amount of time the system will wait before recalling an SLT for a call on hold.

FF1 1 04 0003 Hold (0-255) Hold

0 = no recall (default)
1 = 1 second
2 = 2 seconds
...
255 = 255 seconds

Notes:

Related Programming:

Transfer Recall Start Timer (Extensions/SLTs)

0004 :60
TRF RCL S-EXT

(all CPCs) - Version 2.0 or higher

Set the amount of time the system will wait before recalling a digital or SLT extension for an unanswered call transfer.

FF1 1 04 0004 Hold (0-255) Hold

0 = no recall
1 = 1 second
2 = 2 seconds
...
255 = 255 seconds

default: 60 seconds

Notes:

Related Programming:

FF1
System

Transfer Recall Start Timer (Attendant Group)

0005 :20
TRF RCL S-ATTG

(all CPCs) - Version 2.0 or higher

Set the amount of time the system will wait before recalling the Attendant Group for an unanswered call transfer.

FF1 1 04 0005 Hold (0-255) Hold

0 = no recall
1 = 1 second
2 = 2 seconds
...
255 = 255 seconds

default: 20 seconds

Notes:

Related Programming:

FF5 0: Attendant Hunt Group (pg. 5-3)

Hold/Transfer Recall Ringing Duration Timer

0006 :60
Hold/TRF Recall

(all CPCs) - Version 2.0 or higher

Set the amount of time a recall from hold or transfer will last before reverting to an Attendant or extension.

FF1 1 04 0006 Hold (0-255) Hold

0 = continue recalling at extension (no reversion)
1 = 1 second
2 = 2 seconds
...
255 = 255 seconds

default: 60 seconds

Notes:

Related Programming:

Attendant Reversion Duration Timer

0007 :0
Reversion Timer

(all CPCs) - Version 2.0 or higher

Set the amount of time a reverted call to an Attendant Group can ring unanswered.

FF1 1 04 0007 Hold (0-255) Hold

0 = continue ringing indefinitely (default)
1 = 1 second
2 = 2 seconds
...
255 = 255 seconds

Notes:

If this timer expires, the call will be disconnected.

Related Programming:

FF5 0: Attendant Hunt Group (pg. 5-3)

Call Forward/No Answer Timer (Day1)

0008 :16
CF No-ANS Day 1

(all CPCs) - Version 2.0 or higher

Set the amount of time a call will ring unanswered before being call-forwarded during Day1 mode.

FF1 1 04 0008 Hold (0-255) Hold

0 = 5 seconds
1 = 1 second
2 = 2 seconds
...
255 = 255 seconds

default: 16 seconds

FF1
System

Notes:

Related Programming:

Call Forward/No Answer Timer (Day2)

0009 :16
CF No-ANS Day 2

(all CPCs) - Version 2.0 or higher

Set the amount of time a call will ring unanswered before being call-forwarded during Day2 mode.

FF1 1 04 0009 Hold (0-255) Hold

0 = 5 seconds
1 = 1 second
2 = 2 seconds
...
255 = 255 seconds

default: 16 seconds

Notes:

Related Programming:

Call Forward/No Answer Timer (Night)

0010 :16
CF No-ANS Night

(all CPCs) - Version 2.0 or higher

Set the amount of time a call will ring unanswered before being call-forwarded during Night mode.

FF1 1 04 0010 Hold (0-255) Hold

0 = 5 seconds
1 = 1 second
2 = 2 seconds
...
255 = 255 seconds

default: 16 seconds

Notes:

Related Programming:

Callback Ring Timer (Callback Request and Exchange-Line Queuing)

0011 :15
Callback Timer

(all CPCs) - Version 2.0 or higher

Set the amount of time a callback ring from a Callback Request or Exchange-Line Queuing will last.

FF1 1 04 0011 Hold (0-255) Hold

0 = 5 seconds
1 = 1 second
2 = 2 seconds
...
255 = 255 seconds

default: 15 seconds

Notes:

Callback Request: *(also called "Station Queuing")* Dial a busy extension. Before hanging up, dial the Callback Request code ("3" by default). When the called extension becomes idle, your phone will start ringing. When you pick up, the system will automatically ring the called extension. When they pick up, you'll be connected to them.

Exchange-Line Queuing: Dial an exchange-line access code to seize an exchange line. If you hear busy tone instead, dial the Exchange-Line Queuing code and hang up. Your phone will issue an alert tone when the exchange line becomes available. Pick up the handset to accept it (you'll hear dial tone in the receiver).

Related Programming:

FF1
System

Timed Reminder Ring Timer

0012 :16
Reminder Timer

(all CPCs) - Version 2.0 or higher

Set how long the system continues Timed Reminder ringing.

FF1 1 04 0012 Hold (0-255) Hold

0 = 5 seconds
1 = 1 second
2 = 2 seconds
...
255 = 255 seconds

default: 16 seconds

Notes:

Timed Reminder: Set your phone to issue an alarm tone at a specified hour/minute. The Timed Reminder Set/Cancel codes can be dialed manually (*31 by default, then enter the hour/minute to set; or to cancel, *39 by default). These codes are flexible, which means they can be changed for Dial Plans A and B in FF1 2.

Related Programming:

Timed Reminder Interval for Busy Extensions

0013 :180
Reminder Recall

(all CPCs) - Version 2.0 or higher

Set the amount of time between Timed Reminder rings at busy extensions.

FF1 1 04 0013 Hold (0-255) Hold

0 = 5 seconds
1 = 1 second
2 = 2 seconds
...
255 = 255 seconds

default: 180 seconds

FF1
System

Notes:

Related Programming:

Not Used

(all CPCs) - Version 2.0 or higher

FF1 1 04 0014 Hold

0014 :
Not Used

FF1 1 04 0015 Hold

0015 :
Not Used

Howler Tone Duration Timer (Extensions)

0016 :30
Howler Start

(all CPCs) - Version 2.0 or higher

Set how long a "howler" tone lasts.

FF1 1 04 0016 Hold (0-255) Hold

0 = 5 seconds
1 = 1 second
2 = 2 seconds
...
255 = 255 seconds

default: 30 seconds

FF1
System

Notes:

Howler Tone: A loud tone issued through the handset receiver to call attention to an off-hook/dial-tone condition (for example, when a user fails to hang up from a call).

Related Programming:

Howler Tone (pg. 1-29) FF1 0 02 0014 Hold (0 or 1) Hold

Station Call Park Recall Timer

0017 :180
Call Park Recall

(all CPCs) - Version 2.0 or higher

Set the amount of time a call can be parked on an extension before recalling the extension.

FF1 1 04 0017 Hold (0-255) Hold

0 = no recall
1 = 1 second
2 = 2 seconds
...
255 = 255 seconds

default: 180 seconds

Notes:

Station Call Park: The call can be "parked" on an extension phone; the user can walk over to another phone and pick up the call by dialling the Park Pickup code and his/her extension number, where the call is parked.

Related Programming:

FF1 2: Dial Plan

Maximum/Minimum Dialling at Intercom Dial Tone

0001 :4
Dial1 Digit Max

(all CPCs) - Version 2.0 or higher

Set the maximum and minimum number of digits that can be dialled by the end-user during intercom dial tone. This applies to both Dial Plans A and B.

FF1 2 01 (0001-0024) Hold (1-4) Hold

Address Nos. for Dialled Digit Strings beginning with...
0001=digit "1" (maximum string length)
0002=digit "1" (minimum string length)
0003=digit "2" (maximum string length)
0004=digit "2" (minimum string length)
0005=digit "3" (maximum string length)
....
0024="#" (minimum string length)

String Length (1-4 digits)

- see table below for Addresses and defaults -

Notes:

If the number of dialled digits is shorter than the String Length set in this address, the call attempt will be treated as misdialling after the Interdigit Timer expires.

Related Programming:

Dial Plan Assignment (pg. 3-27) for digital keyphones/SLTs FF3 0 BSSC 09 Hold (1 or 2) Hold
Dial Plan Assignment (pg. 3-39) for S-point ISDN extensions FF3 1 BSSC 08 Hold (1 or 2) Hold
Interdigit Timer (DP SLTs) (pg. 1-154) FF1 1 03 0006 Hold (0-255) Hold
Interdigit Timer (DTMF SLTs) (pg. 1-155) FF1 1 03 0007 Hold (0-255) Hold
Interdigit Timer (Digital Keyphones) (pg. 1-155) FF1 1 03 0008 Hold (0-255) Hold

Table 1-5. Maximum/Minimum Dialling at Intercom Dial Tone (FF1 2 01)

First Digit Dialled...	Maximum Digit Length		Minimum Digit Length	
	Address No.	Default	Address No.	Default
1	0001	4	0002	2
2	0003	4	0004	2
3	0005	4	0006	2
4	0007	4	0008	2
5	0009	4	0010	2
6	0011	4	0012	2

7	0013	3 *(for USA, U.K., Hong Kong)* 4 *(all others)*	0014	3
8	0015	2 *(for USA, U.K., Hong Kong)* 3 *(all others)*	0016	2
9	0017	1	0018	1
0	0019	1	0020	1
*	0021	3	0022	2
#	0023	2	0024	1

Dial Plan A: Flexible Feature Codes at Dial Tone

0001 :80
DT1-SD Access

(all CPCs) - Version 2.0 or higher

Define Flexible Feature Codes that can be dialled during dial tone on extensions assigned to Dial Plan A.

FF1 2 02 (0001-0056) Hold (max. 4-digit Code) Hold

Address Bin Nos. for Plan A Features available during dial tone

Flexible Feature Code (max. 4 digits) valid entries: 0-9, * and #

(see table below for features and defaults)

Notes:

Flexible Feature Code: A code that can be created in Programming Mode, and dialled by the end-user to perform a feature. All features already have a **Fixed** Feature Code that cannot be changed or deleted; see pg. 4-2 for a list of these codes. However, a different set of feature codes can be created for the same features. These Flexible Codes can be changed or deleted in programming. This option allows for a more "transparent" phone system replacement (end-users don't have to learn a whole new set of codes when the ICX is installed; it can be tailored to match the current dial plan).

When creating Flexible Feature Codes, keep in mind the current Extension Numbering (can't start with the same digits). These feature codes will take priority over any other intention (such as dialling an extension number) for the same dial string. Therefore, the feature codes should be unique.

Digit length of these Flexible Feature Codes must fall within the limits set in **Maximum/Minimum Dialling at Intercom Dial Tone (pg. 1-167)**.

Extension ports can be individually assigned to Dial Plan A or B in *FF3: Extension Programming*.

Related Programming:

Maximum/Minimum Dialling at Intercom Dial Tone (pg. 1-167) FF1 2 01 (0001-0024) Hold (1-4) Hold
Dial Plan Assignment (pg. 3-27) for digital keyphones/SLTs FF3 0 BSSC 09 Hold (1 or 2) Hold
Dial Plan Assignment (pg. 3-39) for S-point ISDN extensions FF3 1 BSSC 08 Hold (1 or 2) Hold
FF-Key Feature Assignment (Digital Keyphones, SLTs, EM/24s) (pg. 4-7) FF4 0 BSSC 0 (01-32) Hold FL/R (Code) Hold
FF-Key Feature Assignment (DSS/72) (pg. 4-14) FF4 1 BSSC 0 (01-72) Hold FL/R (Code) Hold
Soft Key Feature Assignment (pg. 4-19) FF4 2 BSSC 0 (01-30) Hold (Code) Hold

Table 1-6. Dial Plan A: Flexible Feature Codes at dial tone (FF1 2 02)

Address No.	Feature Description	LCD Display	Default Code	
			USA, U.K., Hong Kong	All Others
0001	Speed Dial Originate	**DT1-SD Access**	80	80
0002	Speed Dial Set	**DT1-SD Assign**	710	710#
0003	SLT Redial	**DT1-SLT Redial**	712	712#
0004	MCO-1 Exchange Line Access	**DT1-MCO1 Access**	9	9
0005	MCO-2 Exchange Line Access	**DT1-MCO2 Access**	81	81
0006	MCO-3 Exchange Line Access	**DT1-MCO3 Access**	82	82
0007	MCO-4 Exchange Line Access	**DT1-MCO4 Access**	83	83
0008	MCO-5 Exchange Line Access	**DT1-MCO5 Access**	84	84
0009	Exchange Line Direct Access	**DT1-TRK Access**	88	88
0010	Not Used **(all CPCs - below Version 2.5)** SLT Flash Send to Public Exchange **(all CPCs - Version 2.5 and up)**	**DT1-Not Used** **DT1-Flash Send**	-- 765	-- 765
0011	Message Waiting Set	**DT1-M. Wait High**	∗41	∗41
0012	Message Waiting Cancel	**DT1-M. Wait CLR**	∗5	∗5
0013	Message Waiting Callback	**DT1-M. Wait Back**	∗6	∗6
0014	Priority Message Waiting Cancel by other extension	**DT1-MW H CLR Via**	∗49	∗49
0015	Call Forward All Calls Set	**DT1-CF.All Set**	721	721#
0016	Call Forward All Calls Cancel	**DT1-CF.All CLR**	731	731#
0017	Call Forward All Calls Set via Other Extension	**DT1-CF.All S Via**	741	741#
0018	Call Forward All Calls Cancel via Other Extension	**DT1-CF.All C Via**	751	751#
0019	Call Forward Busy Set	**DT1-CF.Busy Set**	722	722#
0020	Call Forward Busy Cancel	**DT1-CF.Busy CLR**	732	732#
0021	Call Forward Busy Set via Other Extension	**DT1-CF.B S Via**	742	742#
0022	Call Forward Busy Cancel via Other Extension	**DT1-CF.B C Via**	752	752#
0023	Call Forward Answer Set	**DT1-CF.N-ANS Set**	723	723#
0024	Call Forward Answer Cancel	**DT1-CF.N-ANS CLR**	733	733#
0025	Call Forward Answer Set via Other Extension	**DT1-CF.N-A S Via**	743	743#
0026	Call Forward Answer Cancel via Other Extension	**DT1-CF.N-A C Via**	753	753#
0027	Do Not Disturb (DND) Set/Cancel	**DT1-DND Set/CLR**	720	720#
0028	Do Not Disturb (DND) Set via Other Extension	**DT1-DND Set Via**	740	740#
0029	Do Not Disturb (DND) Cancel via Other Extension	**DT1-DND CLR Via**	750	750#
0030	Do Not Disturb (DND) & Call Forward Cancel	**DT1-CF/DND CLR**	7∗∗	7∗∗
0031	Timed Reminder Set	**DT1-Reminder Set**	∗31	∗31
0032	Timed Reminder Cancel	**DT1-Reminder CLR**	∗39	∗39
0033	Background Music (BGM) On/Off	**DT1-BGM Set/CLR**	∗30	∗30
0034	Day/Night Mode Set	**DT1-Day1<–>Night**	760	760#
0035	Day2 Mode Set	**DT1-Day2**	761	761#
0036	Night2 Mode Set	**DT1-Night(1)**	762	762#
0037	Night3 Mode Set	**DT1-Night(2)**	763	763#

0038	Paging Answer	**DT1-Meet Me ANS**	##	##
0039	Paging	**DT1-Paging**	#	#
0040	Same Group Call Pickup	**DT1-G. Pickup**	701	701#
0041	Same Group Call Pickup (Public-Exchange Calls)	**DT1-G. Pickup CO**	702	702#
0042	Specified Group Call Pickup	**DT1-O. G. Pickup**	703	703#
0043	Direct Call Pickup	**DT1-D. Pickup**	704	704#
0044	MCO Incoming Call Answer	**DT1-MCO Answer**	709	709#
0045	Specified Floating Hold Answer	**DT1-Virtual ANS**	∗9	∗9
0046	Specified Exchange Line Answer	**DT1-TRK Answer**	∗0	∗0
0047	Account Code Set	**DT1-Account Code**	8#	8#
0048	Voice Mail ID Call Forward Code Set	**DT1-CF ID Set**	715	715#
0049	Voice Mail Message Code Set	**DT1-VM Access**	716	716#
0050	Remote Maintenance	**DT1-Remote MAINT**	799	799#
0051	8-Party Conference	**DT1-8Party CONF**	788	788#
0052	Walking TRS Access Code	**DT1-Walking TRS**	87	87
0053	Station Call Park	**DT1-C.Park Hold**	771	771#
0054	Station Call Park Answer Code #1 (Own EXT.)	**DT1-C.Park ANS1**	772	772#
0055	Station Call Park Answer Code #2 (Other EXT.)	**DT1-C.Park ANS2**	773	773#
0056	Station Call Park Transfer Code	**DT1-C.Park TRF**	774	774#

FF1 System

Dial Plan B: Flexible Feature Codes at Dial Tone

0001 :80
DT2-SD Access

(all CPCs) - Version 2.0 or higher

Define Flexible Feature Codes that can be dialled during dial tone on extensions assigned to Dial Plan B.

FF1 2 03 (0001-0056) Hold (max. 4-digit Code) Hold

Address Bin Nos. for Plan B Features available during dial tone

Flexible Feature Code (max. 4 digits)
valid entries: 0-9, ∗ and #

(see table below for features and defaults)

Notes:

See **Notes,** pg. 1-168.

Related Programming:

See **Related Programming,** pg. 1-168.

Table 1-7. Dial Plan B: Flexible Feature Codes at dial tone (FF1 2 03)

Address No.	Feature Description	LCD Display	Default Code (all countries)
0001	Speed Dial Originate	**DT2-SD Access**	80
0002	Speed Dial Set	**DT2-SD Assign**	710
0003	SLT Redial	**DT2-SLT Redial**	712
0004	MCO-1 Exchange Line Access	**DT2-MCO1 Access**	9
0005	MCO-2 Exchange Line Access	**DT2-MCO2 Access**	81
0006	MCO-3 Exchange Line Access	**DT2-MCO3 Access**	82
0007	MCO-4 Exchange Line Access	**DT2-MCO4 Access**	83
0008	MCO-5 Exchange Line Access	**DT2-MCO5 Access**	84
0009	Exchange Line Direct Access	**DT2-TRK Access**	88
0010	Not Used **(all CPCs - below Version 2.5)** SLT Flash Send to Public-Exchange **(all CPCs - Version 2.5 and up)**	**DT2-Not Used** **DT2-Flash Send**	-- 765
0011	Message Waiting Set	**DT2-M. Wait High**	∗41
0012	Message Waiting Cancel	**DT2-M. Wait CLR**	∗5
0013	Message Waiting Callback	**DT2-M. Wait Back**	∗6
0014	Priority Message Waiting Cancel by other extension	**DT2-MW H CLR Via**	∗49
0015	Call Forward All Calls Set	**DT2-CF.All Set**	721
0016	Call Forward All Calls Cancel	**DT2-CF.All CLR**	731
0017	Call Forward All Calls Set via Other Extension	**DT2-CF.All S Via**	741
0018	Call Forward All Calls Cancel via Other Extension	**DT2-CF.All C Via**	751
0019	Call Forward Busy Set	**DT2-CF.Busy Set**	722
0020	Call Forward Busy Cancel	**DT2-CF.Busy CLR**	732
0021	Call Forward Busy Set via Other Extension	**DT2-CF.B S Via**	742
0022	Call Forward Busy Cancel via Other Extension	**DT2-CF.B C Via**	752
0023	Call Forward Answer Set	**DT2-CF.N-ANS Set**	723
0024	Call Forward Answer Cancel	**DT2-CF.N-ANS CLR**	733
0025	Call Forward Answer Set via Other Extension	**DT2-CF.N-A S Via**	743
0026	Call Forward Answer Cancel via Other Extension	**DT2-CF.N-A C Via**	753
0027	Do Not Disturb (DND) Set/Cancel	**DT2-DND Set/CLR**	720
0028	Do Not Disturb (DND) Set via Other Extension	**DT2-DND Set Via**	740
0029	Do Not Disturb (DND) Cancel via Other Extension	**DT2-DND CLR Via**	750
0030	Do Not Disturb (DND) & Call Forward Cancel	**DT2-CF/DND CLR**	7∗∗
0031	Timed Reminder Set	**DT2-Reminder Set**	∗31
0032	Timed Reminder Cancel	**DT2-Reminder CLR**	∗39
0033	Background Music (BGM) On/Off	**DT2-BGM Set/CLR**	∗30
0034	Day/Night Mode Set	**DT2-Day1<–>Night**	760
0035	Day2 Mode Set	**DT2-Day2**	761
0036	Night2 Mode Set	**DT2-Night(1)**	762
0037	Night3 Mode Set	**DT2-Night(2)**	763
0038	Paging Answer	**DT2-Meet Me ANS**	##

0039	Paging	**DT2-Paging**	#
0040	Same Group Call Pickup	**DT2-G. Pickup**	701
0041	Same Group Call Pickup (Public-Exchange Calls)	**DT2-G. Pickup CO**	702
0042	Specified Group Call Pickup	**DT2-O. G. Pickup**	703
0043	Direct Call Pickup	**DT2-D. Pickup**	704
0044	MCO Incoming Call Answer	**DT2-MCO Answer**	709
0045	Specified Floating Hold Answer	**DT2-Virtual ANS**	∗9
0046	Specified Exchange Line Answer	**DT2-TRK Answer**	∗0
0047	Account Code Set	**DT2-Account Code**	8#
0048	Voice Mail ID Call Forward Code Set	**DT2-CF ID Set**	715
0049	Voice Mail Message Code Set	**DT2-VM Access**	716
0050	Remote Maintenance	**DT2-Remote MAINT**	799
0051	8-Party Conference	**DT2-8Party CONF**	788
0052	Walking TRS Access Code	**DT2-Walking TRS**	87
0053	Station Call Park	**DT2-C.Park Hold**	771
0054	Station Call Park Answer Code #1 (Own EXT.)	**DT2-C.Park ANS1**	772
0055	Station Call Park Answer Code #2 (Other EXT.)	**DT2-C.Park ANS2**	773
0056	Station Call Park Transfer Code	**DT2-C.Park TRF**	774

FF1 System

Dial Plan A: Flexible Feature Codes at Ringback Tone

0001 :1
RBT1-Voice Call

(all CPCs) - Version 2.0 or higher

Define Flexible Feature Codes that can be dialled during ringback tone on extensions assigned to Dial Plan A.

FF1 2 04 (0001-0010) Hold (1-digit Code) Hold

Address Bin Nos. for Plan A Features available during ringback tone

Flexible Feature Code (1 digit only) valid entries: 0-9, ∗ and #

(see table below for features and defaults)

Notes:

See **Notes,** pg. 1-168.

Related Programming:

See **Related Programming,** pg. 1-168.

Table 1-8. Dial Plan A: Flexible Feature Codes at ringback tone (FF1 2 04)

Address No.	Feature Description	LCD Display	Default Code	
			USA, U.K., Hong Kong	All Others
0001	Voice Call	**RBT1-Voice Call**	1	1
0002	Message Waiting (normal)	**RBT1-M. Wait Low**	4	4#
0003	Message Waiting (priority for VM)	**RBT1-M. Wait High**	5	5#
0004 - thru - 0010	Not Used	**RBT1-Not Used**	--	--

Dial Plan B: Flexible Feature Codes at Ringback Tone

0001 :1
RBT2-Voice Call

(all CPCs) - Version 2.0 or higher

Define Flexible Feature Codes that can be dialled during ringback tone on extensions assigned to Dial Plan B.

FF1 2 05 (0001-0010) Hold (1-digit Code) Hold

Address Bin Nos. for Plan B Features available during ringback tone

Flexible Feature Code (1 digit only) valid entries: 0-9, ∗ and #

(see table below for features and defaults)

Notes:

See **Notes,** pg. 1-168.

Related Programming:

See **Related Programming,** pg. 1-168.

Table 1-9. Dial Plan B: Flexible Feature Codes at ringback tone (FF1 2 05)

Address No.	Feature Description	LCD Display	Default Code (all countries)
0001	Voice Call	**RBT2-Voice Call**	1
0002	Message Waiting (normal)	**RBT2-M. Wait Low**	4
0003	Message Waiting (priority for VM)	**RBT2-M. Wait High**	5
0004 - thru - 0010	Not Used	**RBT2-Not Used**	--

Dial Plan A: Flexible Feature Codes at Busy Tone

0001 :3
BT1-Callback

(all CPCs) - Version 2.0 or higher

Define Flexible Feature Codes that can be dialled during busy tone on extensions assigned to Dial Plan A.

FF1 2 06 (0001-0010) Hold (1-digit Code) Hold

Address Bin Nos. for Plan A Features available during busy tone

Flexible Feature Code (1 digit only) valid entries: 0-9, ∗ and #

(see table below for features and defaults)

FF1 System

Notes:

See **Notes,** pg. 1-168.

Related Programming:

See **Related Programming,** pg. 1-168.

Table 1-10. Dial Plan A: Flexible Feature Codes at busy tone (FF1 2 06)

Address No.	Feature Description	LCD Display	Default Code	
			USA, U.K., Hong Kong	All Others
0001	Exchange-Line Queuing and Intercom Call-back Request	**BT1-Callback**	3	3#
0002	Camp-On	**BT1-Camp-On**	2	2#
0003	Message Waiting (normal)	**BT1-M. Wait Low**	4	4#
0004	Message Waiting (priority for VM)	**BT1-M. Wait High**	5	5#
0005	Busy Override	**BT1-B. Override**	9	9#
0006	OHVA Access Code	**BT1-OHVA**	8	8#
0007 - thru - 0010	Not Used	**BT1-Not Used**	--	--

Dial Plan B: Flexible Feature Codes at Busy Tone

0001 :3
BT2-Callback

(all CPCs) - Version 2.0 or higher

Define Flexible Feature Codes that can be dialled during busy tone on extensions assigned to Dial Plan B.

FF1 2 07 (0001-0010) Hold (1-digit Code) Hold

Address Bin Nos. for Plan B Features available during busy tone

Flexible Feature Code (1 digit only) valid entries: 0-9, ∗ and #

(see table below for features and defaults)

FF1 System

Notes:

See **Notes,** pg. 1-168.

Related Programming:

See **Related Programming,** pg. 1-168.

Table 1-11. Dial Plan B: Flexible Feature Codes at busy tone (FF1 2 07)

Address No.	Feature Description	LCD Display	Default Code (all countries)
0001	Exchange-Line Queuing and Intercom Call-back Request	**BT2-Callback**	3
0002	Camp-On	**BT2-Camp-On**	2
0003	Message Waiting (normal)	**BT2-M. Wait Low**	4
0004	Message Waiting (priority for VM)	**BT2-M. Wait High**	5
0005	Busy Override	**BT2-B. Override**	9
0006	OHVA Access Code	**BT2-OHVA**	8
0007 - thru - 0010	Not Used	**BT2-Not Used**	--

FF1 3: MCO Access in Tenant Groups

Tenant Groups provide a way to divide the phone system into different departments, or even different companies sharing the same phone system, for inbound and outbound calls.

FF1
System

- ❒ Individual exchange lines are assigned to Tenant Groups in FF2. — default: 0 (no assignment)
- ❒ Individual extensions are assigned to Tenant Groups in FF3. — default: Tenant Group 1
- ❒ Exchange Lines are assigned to Outbound Exchange-Line Groups in FF5 - 2. — default: (no assignment)
- ❒ Outbound Exchange-Line Groups are assigned to Tenant Groups in: — defaults:
  Tenant Group MCO Access: Outbound Exchange-Line Groups (pg. 1-177)
  FF1 3 01 (0001-0360) Hold (0-99 or 0-72) Hold
  Tenant 1/MCO-1=TG#1
  Tenant 2/MCO-1=TG#2
  Tenant 3/MCO-1=TG#3
  etc.
- ❒ Allow/Don't allow extensions to select specific exchange lines: — default: 0 (allow)
  Extension COS: Direct Exchange-Line Access (pg. 1-49)
  FF1 0 03 (00-15) 13 Hold (0 or 1) Hold
  0=allow 1=do not allow
- ❒ For non-ARS routing, select the TRS Level for each outbound-call path (extension-using-exchange line) in: — default: 9 (allow all calls)
  TRS Level for Path (non-ARS) (pg. 6-17)
  FF6 1 00 (01-50) Hold (0001-0099) Hold (0-9) Hold
  (01-50): TRS Class No. of originating extension.
  (0001-0099): Exchange-Line Group No. of seized exchange line
  (0-9): TRS Levels: 0=restrict all calls ... 9=allow all calls
- ❒ For ARS routing, assign the Exchange-Line Groups to routes in: — default: 0 (no assignment)
  Route Table: Exchange-Line Group Assignment (pg. 6-38)
  FF6 2 04 (001-200) 0001 Hold (0-99) Hold
  (001-200): Route No.
  (0-99): Exchange-Line Group No.

NOTE: Available range of MCO Tenant Groups is determined by the CPC installed, and the number of CCUs specified in programming (see **0: System Configuration**).

CPC INSTALLED		NO. OF CCUS SPECIFIED IN PROGRAMMING					
(shaded cells not available with this CPC)	CPC-96:	1	2	3	4	5	6
	CPC-288:	1	2	3	4	5	6
	CPC-576:	1	2	3	4	5	6
max. MCO Tenant Groups:		12	24	36	48	60	72

Tenant Group MCO Access: Outbound Exchange-Line Groups

0001 :1
Tenant01 MCO1 TG

(all CPCs) - Version 2.0 or higher

Assign the exchange-line group (or group chain, for Advanced Routing) that will be seized by dialling MCO access codes 1-5 within each Tenant Group.

FF1 3 01 (0001-0360) Hold (0-99 or 0-72) Hold

0001=Tenant Group #1, MCO-1
0002=Tenant Group #1, MCO-2
0003=Tenant Group #1, MCO-3
0004=Tenant Group #1, MCO-4
0005=Tenant Group #1, MCO-5
0006=Tenant Group #2, MCO-1
...
0360=Tenant Group #72, MCO-5

MCO Exchange-Line Group No. (1-99) or Exchange-Line Group Chain List No. (1-72) or 0 (no assignment)

(see table, next page for defaults)

NOTE: Available range of MCO Tenant Groups is determined by the CPC installed, and the number of CCUs specified in programming (see **0: System Configuration**).

CPC INSTALLED		NO. OF CCUS SPECIFIED IN PROGRAMMING					
(shaded cells not available with this CPC)	CPC-96:	1	2	3	4	5	6
	CPC-288:	1	2	3	4	5	6
	CPC-576:	1	2	3	4	5	6
max. MCO Tenant Groups:		12	24	36	48	60	72
corresponding Addresses:		0001-0060	0001-0120	0001-0180	0001-0240	0001-0300	0001-0360

Notes:

If **Advanced Routing for MCO Access (pg. 1-27)** is disabled for the system, enter MCO Exchange-Line Groups 1-99 in this address. However, if **Advanced Routing** is enabled, enter Exchange-Line Group Chain Lists 1-72. See next address (FF1 3 02) to set up "chains" of up to 5 Exchange-Line Groups each, for Advanced Routing.

Each Tenant Group has 5 MCO exchange-line access codes which, by initial default, seize the associated exchange-line group by dialing the following:

MCO-1 Access Code: 9 (default)
MCO-2 Access Code: 81 (default)
MCO-3 Access Code: 82 (default)
MCO-4 Access Code: 83 (default)
MCO-5 Access Code: 84 (default)

Related Programming:

Advanced Routing for MCO Access (pg. 1-27) FF1 0 02 0011 Hold (0 or 1) Hold
Extension COS: Direct Exchange-Line Access (pg. 1-49) FF1 0 03 (00-15) 13 Hold (0 or 1) Hold
Advanced Routing: Outbound Exchange-Line Group Chains (pg. 1-179) FF1 3 02 (0001-0360) Hold (0-99) Hold
MCO Outbound Exchange-Line Group Members (pg. 5-20) FF5 2 (01-99) (002-577) Hold (1-576) Hold

Table 1-12. Exchange-Line Group/Chain List assignment to MCO Tenant Groups (FF1 3 01)

Address No.	Tenant Group No.	MCO Access Code	Default Exchange-Line Group No. (or Chain List No.)
0001	Tenant Group 1	MCO-1	1
0002		MCO-2	0 (no assignment)
0003		MCO-3	0 (no assignment)
0004		MCO-4	0 (no assignment)
0005		MCO-5	0 (no assignment)
0006	Tenant Group 2	MCO-1	2
0007		MCO-2	0 (no assignment)
0008		MCO-3	0 (no assignment)
0009		MCO-4	0 (no assignment)
0010		MCO-5	0 (no assignment)
0011	Tenant Group 3	MCO-1	3
0012		MCO-2	0 (no assignment)
0013		MCO-3	0 (no assignment)
0014		MCO-4	0 (no assignment)
0015		MCO-5	0 (no assignment)
...	...	...	...
0356	Tenant Group 72	MCO-1	72
0357		MCO-2	0 (no assignment)
0358		MCO-3	0 (no assignment)
0359		MCO-4	0 (no assignment)
0360		MCO-5	0 (no assignment)

Advanced Routing: Outbound Exchange-Line Group Chains

0001 :0
Tenant01 1st TG

(all CPCs) - Version 2.0 or higher

Define “chains” of exchange-line groups that will be searched whenever a user dials one of the MCO access codes (MCO-1 thru MCO-5) to seize an outside line. Applies only if **Advanced Routing for MCO Access (pg. 1-27)** is enabled.

FF1 3 02 (0001-0360) Hold (0-99) Hold

0001=Chain #1: 1st-priority Exch.Line Group
0002=Chain #1: 2nd-priority Exch.Line Group
0003=Chain #1: 3rd-priority Exch.Line Group
....
0360=Chain #72: 5th-priority Exch.Line Group

Exch.Line Group No. (1-99)

default: 0=no assignment

(see table, next page)

NOTE: Available range of Chains is determined by the CPC installed, and the number of CCUs specified in programming (see **0: System Configuration**).

CPC INSTALLED		NO. OF CCUS SPECIFIED IN PROGRAMMING					
(shaded cells not available with this CPC)	CPC-96:	1	2	3	4	5	6
	CPC-288:	1	2	3	4	5	6
	CPC-576:	1	2	3	4	5	6
max. no. of Chains:		12	24	36	48	60	72
corresponding Addresses:		0001-0060	0001-0120	0001-0180	0001-0240	0001-0300	0001-0360

Notes:

These Exch.Line Group chains are assigned to MCO access codes in the previous address (FF1 3 01).

Related Programming:

Advanced Routing for MCO Access (pg. 1-27) FF1 0 02 0011 Hold (0 or 1) Hold

Tenant Group MCO Access: Outbound Exchange-Line Groups (pg. 1-177) FF1 3 01 (0001-0360) Hold (0-99 or 0-72) Hold

MCO Outbound Exchange-Line Group Members (pg. 5-20) FF5 2 (01-99) (002-577) Hold (1-576) Hold

Table 1-13. Advanced Routing: Exch.Line Group Chains (FF1 3 02)

Address No.	Chain #	Exch.Line Group Priority	Default
0001	Chain #1	1st-priority Group:	0 (no assignment)
0002		2nd-priority Group:	0 (no assignment)
0003		3rd-priority Group:	0 (no assignment)
0004		4th-priority Group:	0 (no assignment)
0005		5th-priority Group:	0 (no assignment)
0006	Chain #2	1st-priority Group:	0 (no assignment)
0007		2nd-priority Group:	0 (no assignment)
0008		3rd-priority Group:	0 (no assignment)
0009		4th-priority Group:	0 (no assignment)
0010		5th-priority Group:	0 (no assignment)
0011	Chain #3	1st-priority Group:	0 (no assignment)
0012		2nd-priority Group:	0 (no assignment)
0013		3rd-priority Group:	0 (no assignment)
0014		4th-priority Group:	0 (no assignment)
0015		5th-priority Group:	0 (no assignment)
...	...	...	...
0356	Chain #72	1st-priority Group:	0 (no assignment)
0357		2nd-priority Group:	0 (no assignment)
0358		3rd-priority Group:	0 (no assignment)
0359		4th-priority Group:	0 (no assignment)
0360		5th-priority Group:	0 (no assignment)

Tenant Groups: Inbound Exchange-Line Groups

0001 :1
Tenant01 In-MCO

(all CPCs) - Version 2.0 or higher

Assign the exchange-line group to be picked by each Tenant Group for an incoming call.

FF1 3 03 (0001-0072) Hold (1-99) Hold

Tenant Group No. 1-72 — Inbound Exch.Line Group No. 1-99

defaults: Tenant #1=Group #1;
Tenant #2=Group #2; ...
Tenant #72=Group #72

NOTE: Available range of Tenant Groups is determined by the CPC installed, and the number of CCUs specified in programming (see **0: System Configuration**).

CPC INSTALLED		NO. OF CCUS SPECIFIED IN PROGRAMMING					
(shaded cells not available with this CPC)	CPC-96:	1	2	3	4	5	6
	CPC-288:	1	2	3	4	5	6
	CPC-576:	1	2	3	4	5	6
max. MCO Tenant Groups:		12	24	36	48	60	72
corresponding Addresses:		0001-0012	0001-0024	0001-0036	0001-0048	0001-0060	0001-0072

Notes:

Each extension can be assigned to an MCO Tenant Group (see **Tenant Group Assignment** address for each type of extension in FF3). This is how extension ring assignments are accomplished for incoming calls.

The same Exchange-Line Group ***can be used for both*** inbound and outbound calls. However, the same exchange line cannot belong to multiple outbound or inbound groups (maximum 1 outbound and 1 inbound group). See FF5 2 for building Outbound Exchange-Line Groups; FF5 3 for building Inbound Exchange-Line Groups.

Related Programming:

Tenant Group Assignment (pg. 3-24) for digital keyphones/SLTs FF3 0 BSSC 05 Hold (1-72) Hold
Tenant Group Assignment (pg. 3-36) for S-point ISDN extensions FF3 1 BSSC 04 Hold (1-72) Hold
Tenant Group Assignment (pg. 3-43) for Virtual extensions FF3 2 (001-576) 02 Hold (1-72) Hold
Tenant Group Assignment (pg. 3-45) for RAI extension port FF3 3 01 Hold (1-72) Hold
MCO Inbound Exchange-Line Group Members (pg. 5-21) FF5 3 (01-99) (001-576) Hold (1-576) Hold

Table 1-14. Tenant Groups: Inbound Exchange-Line Groups (FF1 3 03)

Address No.	Description	LCD Display	Default
0001	Tenant Group #1: Inbound Exch.Line Group	**Tenant01 IN-MCO**	1
0002	Tenant Group #2: Inbound Exch.Line Group	**Tenant02 IN-MCO**	2
0003	Tenant Group #3: Inbound Exch.Line Group	**Tenant03 IN-MCO**	3
0004	Tenant Group #4: Inbound Exch.Line Group	**Tenant04 IN-MCO**	4
0005	Tenant Group #5: Inbound Exch.Line Group	**Tenant05 IN-MCO**	5
0006	Tenant Group #6: Inbound Exch.Line Group	**Tenant06 IN-MCO**	6
0007	Tenant Group #7: Inbound Exch.Line Group	**Tenant07 IN-MCO**	7
0008	Tenant Group #8: Inbound Exch.Line Group	**Tenant08 IN-MCO**	8
0009	Tenant Group #9: Inbound Exch.Line Group	**Tenant09 IN-MCO**	9
0010	Tenant Group #10: Inbound Exch.Line Group	**Tenant10 IN-MCO**	10
...	...	**...**	...
0072	Tenant Group #72: Inbound Exch.Line Group	**Tenant72 IN-MCO**	72

FF1 4: DDI/CLI Tables

NOTE: Two separate DDI/CLI Dial Tables are provided: "A" side and "B" side. One can be used for analog, and the other for digital. Another advantage of having two separate tables: it wouldn't be a problem to receive the same block of 4-digit numbers from the exchange line, such as 277-[2020 thru 2099] and 366-[2020 thru 2099]. The system could take care of routing the same 4-digit number to different extensions, based on which side ("A" or "B") the exchange line belongs to.

Exchange Lines are assigned to "A" or "B" side via their ***Exchange Line COS*** *assignment in FF2. Also, see* ***Exchange Line COS: DDI/CLI Table*** *on pg. 1-91.*

Analog DDI is not available in the U.K.

DDI/CLI Numbering ("A" Side)

0001 :4
A-Receive Digit

(all CPCs) - Version 2.0 or higher

Set the digit string length (1-4) of DDI (Direct Dialling Inward) or CLI (Called Line Indication) numbers in the "A" side table (see next page).

FF1 4 01 0001 Hold (1-4) Hold

Digit String Length (1-4 digits) for "A"-side DDI/CLI Numbers

default: 4 digits

Notes:

The Digit String Length defined in this address determines the length of the DDI/CLI numbers entered in the **DDI/CLI Dial Table ("A" Side)** (see next address). It must match what is supplied by the local public exchange. If the number received by the system does not match an entry in the table, or if the actual Digit String Length is not the same as specified above, the system will treat the call as a misdialled call.

DDI (Direct Dialling Inward): An outside caller can reach an internal extension directly by dialling a 7-digit public exchange phone number. The DDI exchange line passes the last 2 to 4 digits of the phone number to the PBX, and the digits become (or are modified to become) the equivalent of an extension number. DDI exchange lines can't be used for outgoing calls (no dialtone offered).

CLI (Called Line Indication): Similar to DDI, but normally used on digital (T1 or ISDN) lines. The CLI number (the phone number dialled by the caller) is passed to the PBX, and routed to different extensions based on the CLI number dialled.

To set up DDI and/or CLI Numbers: Set exchange lines for DDI/CLI in the **Ring Type** addresses (FF2). Enter the DDI/CLI numbers, and assign their ring and delayed-ring destinations, in the **DDI/CLI Dial Table** (see next page).

Related Programming:

DDI/CLI Dial Table ("A" Side) (pg. 1-184) FF1 4 02 (000-575) (1-6) Hold (0-9999 or 1-72) Hold
Trunk Signal Type ...
for public exchange lines (pg. 2-8) FF2 0 BSSC 01 00 Hold (0-3) Hold
for T1-CO lines (pg. 2-87) *(USA only)* FF2 2 BSSCC 02 00 Hold (0-3) Hold
Day1/Day2/Night Ring Type ...
for public exchange lines (pg. 2-28) FF2 0 BSSC 03 (0, 2 and 4) Hold (0-6) Hold
for ISDN exchange lines (pg. 2-75) FF2 1 BSSC 04 (0, 2 and 4) Hold (0-6) Hold
for T1-CO lines (pg. 2-106) *(USA only)* FF2 2 BSSCC 04 (0, 2 and 4) Hold (0-6) Hold

FF1 System

DDI/CLI Dial Table ("A" Side)

0001 :0
A001-RCV DGT #

(all CPCs) - Version 2.0 or higher

Assign up to 576 DDI or CLI numbers for "A" side. Also in this table, enter their ring destinations and assign them to a Tenant Group.

FF1 4 02 (000-575) (1-6) Hold (0-9999 or 1-72) Hold

Address Bin Nos. for "A" side DDI/CLI Numbers:	1=Digits of DDI/CLI No.:	0-9999 (DDI or CLI No.)
000=DDI/CLI #1	2=Day Destination:	0-9999 (Ext./Virtual/Closed No.)
001=DDI/CLI #2	3=Night Destination:	0-9999 (Ext./Virtual/Closed No.)
002=DDI/CLI #3	4=Day Dest.-Busy/Delayed:	0-9999 (Ext./Virtual/Closed No.)
003=DDI/CLI #4	5=Night Dest.-Busy/Delayed:	0-9999 (Ext./Virtual/Closed No.)
....	6=Tenant Group No.:	1-72 (Tenant Group)
575=DDI/CLI #576		**defaults: 0 (no assignment)**

(see table, next page)

NOTE: Available range of DDI/CLI numbers in this "A" side Table is determined by the CPC installed, and the number of CCUs specified in programming (see **0: System Configuration**).

CPC INSTALLED		NO. OF CCUS SPECIFIED IN PROGRAMMING					
(shaded cells not available with this CPC)	CPC-96:	1	2	3	4	5	6
	CPC-288:	1	2	3	4	5	6
	CPC-576:	1	2	3	4	5	6
max. DDI/CLI "A" numbers:		96	192	288	384	480	576
corresponding Addresses:		000-095	000-191	000-287	000-383	000-479	000-575

Notes:

The DDI/CLI numbers entered in this address must match the digit string length defined in **DDI/CLI Numbering ("A" Side)** (see previous address).

Related Programming:

DDI/CLI Numbering ("A" Side) (pg. 1-183) FF1 4 01 0001 Hold (1-4) Hold
Exchange Line COS: DDI/CLI Table (pg. 1-91) FF1 0 04 (00-15) 04 Hold (0 or 1) Hold

Table 1-15. DDI/CLI Dial Table ("A" Side) FF1 4 02 (0001-5756)

for DDI/CLI#	Address No.	LCD Display	Assignment Parameters
DDI/CLI#1	0001 = Digits of DDI/CLI number	**A001-RCV DGT #**	DDI/CLI No. (0-9999)
	0002 = Destination, Day Mode	**A001-DEST. Day**	Ext./Virt./Closed No. (0-9999)
	0003 = Destination, Night Mode	**A001-DEST. Night**	Ext./Virt./Closed No. (0-9999)
	0004 = Busy/Delayed Destination, Day	**A001-Delayed Day**	Ext./Virt./Closed No. (0-9999)
	0005 = Busy/Delayed Destination, Night	**A001-Delayed NGT**	Ext./Virt./Closed No. (0-9999)
	0006 = Tenant Group Number	**A001-Tenant G**	Tenant Group No. (1-72)
DDI/CLI#2	0011 = Digits of DDI/CLI number	**A002-RCV DGT #**	DDI/CLI No. (0-9999)
	0012 = Destination, Day Mode	**A002-DEST. Day**	Ext./Virt./Closed No. (0-9999)
	0013 = Destination, Night Mode	**A002-DEST. Night**	Ext./Virt./Closed No. (0-9999)
	0014 = Busy/Delayed Destination, Day	**A002-Delayed Day**	Ext./Virt./Closed No. (0-9999)
	0015 = Busy/Delayed Destination, Night	**A002-Delayed NGT**	Ext./Virt./Closed No. (0-9999)
	0016 = Tenant Group Number	**A002-Tenant G**	Tenant Group No. (1-72)
DDI/CLI#3	0021 = Digits of DDI/CLI number	**A003-RCV DGT #**	DDI/CLI No. (0-9999)
	0022 = Destination, Day Mode	**A003-DEST. Day**	Ext./Virt./Closed No. (0-9999)
	0023 = Destination, Night Mode	**A003-DEST. Night**	Ext./Virt./Closed No. (0-9999)
	0024 = Busy/Delayed Destination, Day	**A003-Delayed Day**	Ext./Virt./Closed No. (0-9999)
	0025 = Busy/Delayed Destination, Night	**A003-Delayed NGT**	Ext./Virt./Closed No. (0-9999)
	0026 = Tenant Group Number	**A003-Tenant G**	Tenant Group No. (1-72)
...	**...**	**...**	...
DDI/CLI#576	5751 = Digits of DDI/CLI number	**A576-RCV DGT #**	DDI/CLI No. (0-9999)
	5752 = Destination, Day Mode	**A576-DEST. Day**	Ext./Virt./Closed No. (0-9999)
	5753 = Destination, Night Mode	**A576-DEST. Night**	Ext./Virt./Closed No. (0-9999)
	5754 = Busy/Delayed Destination, Day	**A576-Delayed Day**	Ext./Virt./Closed No. (0-9999)
	5755 = Busy/Delayed Destination, Night	**A576-Delayed NGT**	Ext./Virt./Closed No. (0-9999)
	5756 = Tenant Group Number	**A576-Tenant G**	Tenant Group No. (1-72)

DDI/CLI Numbering ("B" Side)

0001 :4
B-Receive Digit

(all CPCs) - Version 2.0 or higher

Set the digit string length (1-4) of DDI or CLI numbers in the "B" side table (next page).

FF1 4 03 0001 Hold (1-4) Hold

Digit String Length (1-4 digits) for "B"-side DDI/CLI Numbers

default: 4 digits

FF1 System

Notes:

See "A" side Notes on pg. 1-183. The same applies to "B" side.

Related Programming:

(see "A" side Related Programming on pg. 1-183)

DDI/CLI Dial Table ("B" Side)

0001 :0
B001-RCV DGT #

(all CPCs) - Version 2.0 or higher

Assign up to 576 DDI/CLI numbers for "B" side. Also in this table, enter their ring destinations and assign them to a Tenant Group.

FF1 4 04 (000-575) (1-6) Hold (0-9999 or 1-72) Hold

Address Bin Nos. for "B" side DDI/CLI Numbers:	1=Digits of DDI/CLI No.:	0-9999 (DDI or CLI No.)
000=DDI/CLI #1	2=Day Destination:	0-9999 (Ext./Virtual/Closed No.)
001=DDI/CLI #2	3=Night Destination:	0-9999 (Ext./Virtual/Closed No.)
002=DDI/CLI #3	4=Day Dest.-Busy/Delayed:	0-9999 (Ext./Virtual/Closed No.)
003=DDI/CLI #4	5=Night Dest.-Busy/Delayed:	0-9999 (Ext./Virtual/Closed No.)
....	6=Tenant Group No.:	1-72 (Tenant Group)
575=DDI/CLI #576		**defaults: 0 (no assignment)**

(see table, next page)

NOTE: Available range of DDI/CLI numbers in this "B" side Table is determined by the CPC installed, and the number of CCUs specified in programming (see **0: System Configuration**).

CPC INSTALLED		NO. OF CCUS SPECIFIED IN PROGRAMMING					
(shaded cells not available with this CPC)	CPC-96:	1	2	3	4	5	6
	CPC-288:	1	2	3	4	5	6
	CPC-576:	1	2	3	4	5	6
max. DDI/CLI "B" numbers:		96	192	288	384	480	576
corresponding Addresses:		000-095	000-191	000-287	000-383	000-479	000-575

Notes:

See "A" side Notes on pg. 1-184. The same applies to "B" side.

Related Programming:

(see "A" side Related Programming on pg. 1-184)

Table 1-16. DDI/CLI Dial Table (“B” Side) (FF1 4 04)

for DDI/CLI#	Address No.	LCD Display	Assignment Parameters
DDI/CLI#1	0001 = Digits of DDI/CLI number	**B001-RCV DGT #**	DDI/CLI No. (0-9999)
	0002 = Destination, Day Mode	**B001-DEST. Day**	Ext./Virt./Closed No. (0-9999)
	0003 = Destination, Night Mode	**B001-DEST. Night**	Ext./Virt./Closed No. (0-9999)
	0004 = Busy/Delayed Destination, Day	**B001-Delayed Day**	Ext./Virt./Closed No. (0-9999)
	0005 = Busy/Delayed Destination, Night	**B001-Delayed NGT**	Ext./Virt./Closed No. (0-9999)
	0006 = Tenant Group Number	**B001-Tenant G**	Tenant Group No. (1-72)
DDI/CLI#2	0011 = Digits of DDI/CLI number	**B002-RCV DGT #**	DDI/CLI No. (0-9999)
	0012 = Destination, Day Mode	**B002-DEST. Day**	Ext./Virt./Closed No. (0-9999)
	0013 = Destination, Night Mode	**B002-DEST. Night**	Ext./Virt./Closed No. (0-9999)
	0014 = Busy/Delayed Destination, Day	**B002-Delayed Day**	Ext./Virt./Closed No. (0-9999)
	0015 = Busy/Delayed Destination, Night	**B002-Delayed NGT**	Ext./Virt./Closed No. (0-9999)
	0016 = Tenant Group Number	**B002-Tenant G**	Tenant Group No. (1-72)
DDI/CLI#3	0021 = Digits of DDI/CLI number	**B003-RCV DGT #**	DDI/CLI No. (0-9999)
	0022 = Destination, Day Mode	**B003-DEST. Day**	Ext./Virt./Closed No. (0-9999)
	0023 = Destination, Night Mode	**B003-DEST. Night**	Ext./Virt./Closed No. (0-9999)
	0024 = Busy/Delayed Destination, Day	**B003-Delayed Day**	Ext./Virt./Closed No. (0-9999)
	0025 = Busy/Delayed Destination, Night	**B003-Delayed NGT**	Ext./Virt./Closed No. (0-9999)
	0026 = Tenant Group Number	**B003-Tenant G**	Tenant Group No. (1-72)
...	**...**	**...**	...
DDI/CLI#576	5751 = Digits of DDI/CLI number	**B576-RCV DGT #**	DDI/CLI No. (0-9999)
	5752 = Destination, Day Mode	**B576-DEST. Day**	Ext./Virt./Closed No. (0-9999)
	5753 = Destination, Night Mode	**B576-DEST. Night**	Ext./Virt./Closed No. (0-9999)
	5754 = Busy/Delayed Destination, Day	**B576-Delayed Day**	Ext./Virt./Closed No. (0-9999)
	5755 = Busy/Delayed Destination, Night	**B576-Delayed NGT**	Ext./Virt./Closed No. (0-9999)
	5756 = Tenant Group Number	**B576-Tenant G**	Tenant Group No. (1-72)

DDI Dialling to ISDN "S" Point

0001 :--
001 S-P DGT #

(all CPCs) - Version 2.0 or higher

Enter the destination extension(s) for each ISDN S-point DDI number. Up to 96 different destination possibilities can be entered here.

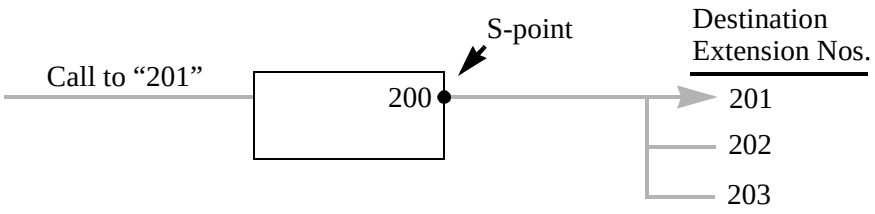
FF1 4 05 (0001-0192) Hold (0-9999) Hold

0001=Entry #1 - DDI S-point Number	DDI S-point Number (0-9999) or
0002=Entry #1 - Destination Extension No.	Destination Ext.No. (0-9999)
0003=Entry #2 - DDI S-point Number	
0004=Entry #2 - Destination Extension No.	**default: -- (no assignment)**
0005=Entry #3 - DDI S-point Number	
....	
0192=Entry #96 - Destination Extension No.	***(see table, next page)***

Notes:

When the extension calls the S-point DDI number, the system will call the DDI extension number and send the S-point DDI number information (see figure below).

Figure 0-1: DDI Dialling to ISDN S-Point (example)



(the table set up in the above address, links Extension Nos. 201, 202, 203, etc. to S-point 200)

Related Programming:

Called Number Indication (pg. 3-34) FF3 1 BSSC 03 03 Hold (0 or 1) Hold

FF1
System

Table 1-17. DDI Dialling for ISDN "S" Point (FF1 4 05)

Entry	Address	for S-point DDI (0-9999)	Address	for Destination Ext. (0-9999)	Entry	Address	for S-point DDI (0-9999)	Address	for Destination Ext. (0-9999)
#1	0001:		0002:		#49	0097:		0098:	
#2	0003:		0004:		#50	0099:		0100:	
#3	0005:		0006:		#51	0101:		0102:	
#4	0007:		0008:		#52	0103:		0104:	
#5	0009:		0010:		#53	0105:		0106:	
#6	0011:		0012:		#54	0107:		0108:	
#7	0013:		0014:		#55	0109:		0110:	
#8	0015:		0016:		#56	0111:		0112:	
#9	0017:		0018:		#57	0113:		0114:	
#10	0019:		0020:		#58	0115:		0116:	
#11	0021:		0022:		#59	0117:		0118:	
#12	0023:		0024:		#60	0119:		0120:	
#13	0025:		0026:		#61	0121:		0122:	
#14	0027:		0028:		#62	0123:		0124:	
#15	0029:		0030:		#63	0125:		0126:	
#16	0031:		0032:		#64	0127:		0128:	
#17	0033:		0034:		#65	0129:		0130:	
#18	0035:		0036:		#66	0131:		0132:	
#19	0037:		0038:		#67	0133:		0134:	
#20	0039:		0040:		#68	0135:		0136:	
#21	0041:		0042:		#69	0137:		0138:	
#22	0043:		0044:		#70	0139:		0140:	
#23	0045:		0046:		#71	0141:		0142:	
#24	0047:		0048:		#72	0143:		0144:	
#25	0049:		0050:		#73	0145:		0146:	
#26	0051:		0052:		#74	0147:		0148:	
#27	0053:		0054:		#75	0149:		0150:	
#28	0055:		0056:		#76	0151:		0152:	
#29	0057:		0058:		#77	0153:		0154:	
#30	0059:		0060:		#78	0155:		0156:	
#31	0061:		0062:		#79	0157:		0158:	
#32	0063:		0064:		#80	0159:		0160:	
#33	0065:		0066:		#81	0161:		0162:	
#34	0067:		0068:		#82	0163:		0164:	
#35	0069:		0070:		#83	0165:		0166:	
#36	0071:		0072:		#84	0167:		0168:	
#37	0073:		0074:		#85	0169:		0170:	
#38	0075:		0076:		#86	0171:		0172:	
#39	0077:		0078:		#87	0173:		0174:	
#40	0079:		0080:		#88	0175:		0176:	
#41	0081:		0082:		#89	0177:		0178:	
#42	0083:		0084:		#90	0179:		0180:	
#43	0085:		0086:		#91	0181:		0182:	
#44	0087:		0088:		#92	0183:		0184:	
#45	0089:		0090:		#93	0185:		0186:	
#46	0091:		0092:		#94	0187:		0188:	
#47	0093:		0094:		#95	0189:		0190:	
#48	0095:		0096:		#96	0191:		0192:	

3rd-party VM: DDI Number Automatic Send

0001 :0
Auto DID Dial

(all CPCs) - Version 2.0 or higher

Specify how the system will send the DDI number to Voice Mail if the called extension does not answer the incoming DDI call, and it is then transferred to VM.

FF1 4 06 0001 Hold (0-3) Hold

0=Do not send DDI No. (default)
1=Send entire DDI No.
2=Send last 2 digits of DDI No.
3=Send last 3 digits of DDI No.

FF1
System

Notes:

Related Programming:

VM Answer Supervision Code (pg. 1-122)	**FF1 0 23 0001 Hold (0000-9999) Hold**
VM Transfer Code #1: Prefix (pg. 1-122)	**FF1 0 24 0001 Hold (up to 8 char.) Hold**
VM Transfer Code #1: Suffix (pg. 1-123)	**FF1 0 24 0002 Hold (up to 8 char.) Hold**
VM Transfer Code #2: Prefix (pg. 1-123)	**FF1 0 24 0003 Hold (up to 8 char.) Hold**
VM Transfer Code #2: Suffix (pg. 1-124)	**FF1 0 24 0004 Hold (up to 8 char.) Hold**

3rd-party VM: ID Code Prefix for DDI

0002 :
DID VM-ID/Prefix

(all CPCs) - Version 2.0 or higher

Set an ID Code for 3rd Party Voice Mail, to be sent in front of the DDI number.

FF1 4 06 0002 Hold (up to 8 char.) Hold

NOTE: Enter a pause in this address by pressing Soft Key #4.

VM ID Code-Prefix (up to 8 characters, including 0-9, ∗, #, and Pause)

default: [no assignment]

Notes:

Related Programming:

3rd-party VM: ID Code Suffix for DDI

0003 : DID VM-ID/Suffix

(all CPCs) - Version 2.0 or higher

Set an ID Code for 3rd Party Voice Mail, to be sent at the end of the DDI number.

FF1 4 06 0003 Hold (up to 8 char.) Hold

FF1 System

NOTE: Enter a pause in this address by pressing Soft Key #4.

VM ID Code-Suffix (up to 8 characters, including 0-9, ∗, #, and Pause)

default: [no assignment]

Notes:

Related Programming:

FF1 5: Not Used

FF1 6: Not Used

FF1 7: Not Used

FF1 8: Digital Pad Settings

Digital Pad Settings for Extension Pad Class

0001 :4
ECLS01-ECLS01

(all CPCs) - Version 2.0 or higher

Set volume adjustments for phone connections between Extension Pad Classes 1-8 (the ***transmitting*** end of the connection) and 30 other pad classes (the ***receiving*** end of the connection).

FF1 8 01 (0001-0240) Hold (0-31) Hold

0001-0030=transmitted by Extension Pad Class 1
0031-0060=transmitted by Extension Pad Class 2
0061-0090=transmitted by Extension Pad Class 3
0091-0120=transmitted by Extension Pad Class 4
0121-0150=transmitted by Extension Pad Class 5
0151-0180=transmitted by Extension Pad Class 6
0181-0210=transmitted by Extension Pad Class 7
0211-0240=transmitted by Extension Pad Class 8

(see table, next page)

Volume Adjustment Setting:

0= 0 dB	16= 0 dB
1= –2 dB	17= +2 dB
2= –4 dB	18= +4 dB
3= –6 dB	19= +6 dB
4= –8 dB	20= +8 dB
5= –10 dB	21= +10 dB
6= –12 dB	22= +12 dB
7= –14 dB	23= +14 dB
8= –16 dB	24= +16 dB
9= –18 dB	25= +18 dB
10= –20 dB	26= +20 dB
11= –22 dB	27= +22 dB
12= –24 dB	28= +24 dB
13= –26 dB	29= +26 dB
14= –28 dB	30= +28 dB
15= –30 dB	31= +30 dB

Notes:

Adjust the default setting(s) in this address whenever other parties have difficulty hearing a particular extension, or the extension user sounds too loud during conversations. Extension Pad Classes 1-8 can be assigned to individual extensions in FF3.

The default settings in this address are intended for different phone types as follows:

Extension Pad Class 1: for SLT
Extension Pad Class 2: for SLT/loss compensation
Extension Pad Class 3: for Digital Key Phones
Extension Pad Class 4: for Wireless
Extension Pad Class 5: for ISDN S-point
Extension Pad Class 6: for VM Playback
Extension Pad Class 7: for Attendant
Extension Pad Class 8: for Terminal Adapter

Related Programming:

Extension Digital Pad Class Assignment (pg. 3-26) for dig.&SLT extensions FF3 0 BSSC 08 Hold (1-8) Hold
Extension Digital Pad Class Assignment (pg. 3-38) for ISDN extensions FF3 1 BSSC 07 0 Hold (1-8) Hold

Table 1-18. Digital Pad Settings for Extension Pad Class 1-8 (FF1 8 01)

[AddressNo.:Default] for Extension Pad Class *(transmitting end)* ...								for connection to *(receiving end)* ...
Ext. Pad Class 1	**Ext. Pad Class 2**	**Ext. Pad Class 3**	**Ext. Pad Class 4**	**Ext. Pad Class 5**	**Ext. Pad Class 6**	**Ext. Pad Class 7**	**Ext. Pad Class 8**	
0001:4	0031:4	0061:4	0091:1	0121:1	0151:7	0181:2	0211:0	Extension Pad Class 1
0002:4	0032:4	0062:4	0092:1	0122:1	0152:7	0182:2	0212:0	Extension Pad Class 2
0003:0	0033:0	0063:0	0093:19	0123:19	0153:3	0183:17	0213:0	Extension Pad Class 3
0004:18	0034:18	0064:18	0094:21	0124:21	0154:1	0184:20	0214:0	Extension Pad Class 4
0005:18	0035:18	0065:18	0095:21	0125:21	0155:1	0185:20	0215:0	Extension Pad Class 5
0006:0	0036:0	0066:0	0096:19	0126:19	0156:0	0186:18	0216:0	Extension Pad Class 6
0007:0	0037:0	0067:0	0097:19	0127:19	0157:3	0187:17	0217:0	Extension Pad Class 7
0008:0	0038:0	0068:0	0098:0	0128:0	0158:0	0188:0	0218:0	Extension Pad Class 8
0009:0	0039:0	0069:0	0099:19	0129:19	0159:3	0189:17	0219:0	Exch.Line Pad Class 1
0010:0	0040:0	0070:0	0100:19	0130:19	0160:3	0190:17	0220:0	Exch.Line Pad Class 2
0011:0	0041:0	0071:0	0101:0	0131:0	0161:0	0191:0	0221:0	Exch.Line Pad Class 3
0012:0	0042:0	0072:0	0102:0	0132:0	0162:0	0192:0	0222:0	Exch.Line Pad Class 4
0013:0	0043:0	0073:0	0103:0	0133:0	0163:0	0193:0	0223:0	Exch.Line Pad Class 5
0014:0	0044:0	0074:0	0104:0	0134:0	0164:0	0194:0	0224:0	Exch.Line Pad Class 6
0015:2	0045:2	0075:2	0105:17	0135:17	0165:1	0195:0	0225:0	Exch.Line Pad Class 7
0016:2	0046:2	0076:2	0106:17	0136:17	0166:6	0196:0	0226:0	Exch.Line Pad Class 8
0017:2	0047:2	0077:2	0107:17	0137:17	0167:5	0197:0	0227:0	Exch.Line Pad Class 9
0018:0	0048:0	0078:0	0108:0	0138:0	0168:0	0198:0	0228:0	Exch.Line Pad Class 10
0019:2	0049:2	0079:2	0109:17	0139:17	0169:5	0199:0	0229:0	Exch.Line Pad Class 11
0020:0	0050:0	0080:0	0110:0	0140:0	0170:0	0200:0	0230:0	Exch.Line Pad Class 12
0021:0	0051:0	0081:18	0111:0	0141:0	0171:0	0201:18	0231:0	Exch.Line Pad Class 13
0022:2	0052:2	0082:0	0112:2	0142:2	0172:2	0202:0	0232:0	Exch.Line Pad Class 14
0023:4	0053:4	0083:2	0113:4	0143:4	0173:4	0203:2	0233:0	Exch.Line Pad Class 15
0024:0	0054:0	0084:0	0114:0	0144:0	0174:0	0204:0	0234:0	Exch.Line Pad Class 16
0025:2	0055:2	0085:2	0115:17	0145:17	0175:0	0205:0	0235:0	Conference Call
0026:2	0056:2	0086:2	0116:17	0146:17	0176:0	0206:0	0236:0	Page Port
0027:2	0057:2	0087:2	0117:17	0147:17	0177:0	0207:0	0237:0	MFR
0028:0	0058:0	0088:0	0118:0	0148:0	0178:0	0208:0	0238:0	RAI Modem
0029:2	0059:2	0089:2	0119:17	0149:17	0179:0	0209:0	0239:0	Conference Call Unit
0030:0	0060:0	0090:0	0120:0	0150:0	0180:0	0210:0	0240:0	(Not Used)

Digital Pad Settings for Exchange Line Pad Class

0001 :0
TCLS01-ECLS01

(all CPCs) - Version 2.0 or higher

Set volume adjustments for phone connections between Exchange Line Pad Classes 1-16 (the ***transmitting*** end of the connection) and 30 other pad classes (the ***receiving*** end of the connection).

FF1 8 02 (0001-0480) Hold (0-31) Hold

0001-0030: transmitted by Exch.Line Pad Class 1
0031-0060: transmitted by Exch.Line Pad Class 2
0061-0090: transmitted by Exch.Line Pad Class 3
0091-0120: transmitted by Exch.Line Pad Class 4
0121-0150: transmitted by Exch.Line Pad Class 5
0151-0180: transmitted by Exch.Line Pad Class 6
0181-0210: transmitted by Exch.Line Pad Class 7
0211-0240: transmitted by Exch.Line Pad Class 8
0241-0270: transmitted by Exch.Line Pad Class 9
0271-0300: transmitted by Exch.Line Pad Class 10
0301-0330: transmitted by Exch.Line Pad Class 11
0331-0360: transmitted by Exch.Line Pad Class 12
0361-0390: transmitted by Exch.Line Pad Class 13
0391-0420: transmitted by Exch.Line Pad Class 14
0421-0450: transmitted by Exch.Line Pad Class 15
0451-0480: transmitted by Exch.Line Pad Class 16

(see tables, next page)

Volume Adjustment Setting:

0= 0 dB	16 = 0 dB
1= –2 dB	17 = +2 dB
2= –4 dB	18 = +4 dB
3= –6 dB	19 = +6 dB
4= –8 dB	20 = +8 dB
5= –10 dB	21 = +10 dB
6= –12 dB	22 = +12 dB
7= –14 dB	23 = +14 dB
8= –16 dB	24 = +16 dB
9= –18 dB	25 = +18 dB
10= –20 dB	26 = +20 dB
11= –22 dB	27 = +22 dB
12= –24 dB	28 = +24 dB
13= –26 dB	29 = +26 dB
14= –28 dB	30 = +28 dB
15= –30 dB	31 = +30 dB

Notes:

Adjust the default setting(s) in this address whenever extension users have difficulty hearing calls on a particular exchange line, or the volume is too loud on it.

The default settings in this address are intended for different exchange-line types as follows:

Exchange Line Pad Class 1: for Analog Public Exchange Line
Exchange Line Class 2: for Analog Public Exchange Line/loss compensation
Exchange Line Class 3: for Private Line CES (Centralized Extension System) #1
Exchange Line Class 4: for Private Line CES #2
Exchange Line Class 5: for LDT (Loop Dialling Exchange Line) Standard
Exchange Line Class 6: for Private Line CES #4 (no CES #3)
Exchange Line Class 7: for ISDN T-point
Exchange Line Class 8: for AC-15 #1 (U.K. only)
Exchange Line Class 9: for AC-15 #2 (U.K. only)
Exchange Line Class 10: Not Used
Exchange Line Class 11: for AC-15 System Connection (U.K. only)
Exchange Line Class 12: Not Used
Exchange Line Class 13: for 0 dB Highway
Exchange Line Class 14: for 4 dB Highway
Exchange Line Class 15: for 8 dB Highway
Exchange Line Class 16: for Data Highway/ISDN

Related Programming:

Exchange Line Digital Pad Class Assignment (pg. 2-37) for analog exchange lines FF2 0 BSSC 08 Hold (1-16) Hold

Exchange Line Digital Pad Class Assignment (pg. 2-59) for AC-15 private lines FF2 0 BSSC 08 Hold (1-16) Hold

Exchange Line Digital Pad Class Assignment (pg. 2-85) for ISDN exch.lines FF2 1 BSSC 10 Hold (1-16) Hold

Trunk Digital Pad Class Assignment (pg. 2-114) for T1-CO lines *(USA only)* FF2 2 BSSCC 09 Hold (1-16) Hold

Trunk Digital Pad Class Assignment (pg. 2-136) for T1-E&M tie lines *(USA only)* FF2 2 BSSCC 09 Hold (1-16) Hold

FF1 System

Table 1-19. Digital Pad Settings for Exchange Line Pad Class 1-8 (FF1 8 02 0001-0240)

Address:Default for Exchange Line Pad Class *(transmitting end)* ...								for connection to *(receiving end)* ...
Exch.Line PadCls 1	Exch.Line PadCls 2	Exch.Line PadCls 3	Exch.Line PadCls 4	Exch.Line PadCls 5	Exch.Line PadCls 6	Exch.Line PadCls 7	Exch.Line PadCls 8	
0001:0	0031:0	0061:0	0091:0	0121:0	0151:0	0181:2	0211:2	Extension Pad Class 1
0002:0	0032:0	0062:0	0092:0	0122:0	0152:0	0182:2	0212:2	Extension Pad Class 2
0003:20	0033:20	0063:0	0093:0	0123:0	0153:0	0183:18	0213:18	Extension Pad Class 3
0004:22	0034:22	0064:0	0094:0	0124:0	0154:0	0184:20	0214:20	Extension Pad Class 4
0005:22	0035:22	0065:0	0095:0	0125:0	0155:0	0185:20	0215:20	Extension Pad Class 5
0006:20	0036:20	0066:0	0096:0	0126:0	0156:0	0186:19	0216:18	Extension Pad Class 6
0007:20	0037:20	0067:0	0097:0	0127:0	0157:0	0187:18	0217:17	Extension Pad Class 7
0008:0	0038:0	0068:0	0098:0	0128:0	0158:0	0188:0	0218:0	Extension Pad Class 8
0009:18	0039:18	0069:0	0099:0	0129:0	0159:0	0189:18	0219:18	Exch.Line Pad Class 1
0010:18	0040:18	0070:0	0100:0	0130:0	0160:0	0190:18	0220:18	Exch.Line Pad Class 2
0011:0	0041:0	0071:0	0101:0	0131:0	0161:0	0191:0	0221:0	Exch.Line Pad Class 3
0012:0	0042:0	0072:0	0102:0	0132:0	0162:0	0192:0	0222:0	Exch.Line Pad Class 4
0013:0	0043:0	0073:0	0103:0	0133:0	0163:0	0193:0	0223:0	Exch.Line Pad Class 5
0014:0	0044:0	0074:0	0104:0	0134:0	0164:0	0194:0	0224:0	Exch.Line Pad Class 6
0015:18	0045:08	0075:0	0105:0	0135:0	0165:0	0195:0	0225:0	Exch.Line Pad Class 7
0016:18	0046:18	0076:0	0106:0	0136:0	0166:0	0196:0	0226:0	Exch.Line Pad Class 8
0017:18	0047:18	0077:0	0107:0	0137:0	0167:0	0197:0	0227:0	Exch.Line Pad Class 9
0018:0	0048:0	0078:0	0108:0	0138:0	0168:0	0198:0	0228:0	Exch.Line Pad Class 10
0019:18	0049:18	0079:0	0109:0	0139:0	0169:0	0199:0	0229:0	Exch.Line Pad Class 11
0020:0	0050:0	0080:0	0110:0	0140:0	0170:0	0200:0	0230:0	Exch.Line Pad Class 12
0021:20	0051:20	0081:0	0111:0	0141:0	0171:0	0201:0	0231:0	Exch.Line Pad Class 13
0022:18	0052:18	0082:2	0112:2	0142:2	0172:2	0202:2	0232:2	Exch.Line Pad Class 14
0023:0	0053:0	0083:4	0113:4	0143:4	0173:4	0203:4	0233:4	Exch.Line Pad Class 15
0024:0	0054:0	0084:0	0114:0	0144:0	0174:0	0204:0	0234:0	Exch.Line Pad Class 16
0025:17	0055:17	0085:0	0115:0	0145:0	0175:0	0205:0	0235:0	Conference Call
0026:20	0056:20	0086:0	0116:0	0146:0	0176:0	0206:0	0236:0	Page Port
0027:17	0057:17	0087:0	0117:0	0147:0	0177:0	0207:0	0237:0	MFR
0028:0	0058:0	0088:0	0118:0	0148:0	0178:0	0208:0	0238:0	RAI Modem
0029:17	0059:17	0089:0	0119:0	0149:0	0179:0	0209:0	0239:0	Conference Call Unit
0030:0	0060:0	0090:0	0120:0	0150:0	0180:0	0210:0	0240:0	(Not Used)

Table 1-20. Digital Pad Settings for Exchange Line Pad Class 9-16 (FF1 8 02 0241-0480)

Address:Default for Exchange Line Pad Class *(transmitting end)* ...								for connection to *(receiving end)* ...
Exch.Line PadCls 9	Exch.Line PadCls 10	Exch.Line PadCls 11	Exch.Line PadCls 12	Exch.Line PadCls 13	Exch.Line PadCls 14	Exch.Line PadCls 15	Exch.Line PadCls 16	
0241:2	0271:0	0301:2	0331:0	0361:4	0391:2	0421:0	0451:0	Extension Pad Class 1
0242:2	0272:0	0302:2	0332:0	0362:4	0392:2	0422:0	0452:0	Extension Pad Class 2
0243:18	0273:0	0303:18	0333:0	0363:1	0393:17	0423:3	0453:0	Extension Pad Class 3
0244:20	0274:0	0304:20	0334:0	0364:0	0394:18	0424:4	0454:0	Extension Pad Class 4
0245:120	0275:0	0305:20	0335:0	0365:0	0395:18	0425:4	0455:0	Extension Pad Class 5
0246:18	0276:0	0306:18	0336:0	0366:19	0396:21	0426:7	0456:0	Extension Pad Class 6
0247:18	0277:0	0307:18	0337:0	0367:1	0397:17	0427:3	0457:0	Extension Pad Class 7
0248:0	0278:0	0308:0	0338:0	0368:0	0398:0	0428:4	0458:0	Extension Pad Class 8
0249:18	0279:0	0309:18	0339:0	0369:0	0399:18	0429:4	0459:0	Exch.Line Pad Class 1
0250:18	0280:0	0310:18	0340:0	0370:0	0400:18	0430:4	0460:0	Exch.Line Pad Class 2
0251:0	0281:0	0311:0	0341:0	0371:0	0401:18	0431:4	0461:0	Exch.Line Pad Class 3
0252:0	0282:0	0312:0	0342:0	0372:0	0402:18	0432:4	0462:0	Exch.Line Pad Class 4
0253:0	0283:0	0313:0	0343:0	0373:0	0403:18	0433:4	0463:0	Exch.Line Pad Class 5
0254:0	0284:0	0314:0	0344:0	0374:0	0404:18	0434:4	0464:0	Exch.Line Pad Class 6
0255:0	0285:0	0315:0	0345:0	0375:0	0405:18	0435:4	0465:0	Exch.Line Pad Class 7
0256:0	0286:0	0316:0	0346:0	0376:0	0406:18	0436:4	0466:0	Exch.Line Pad Class 8
0257:0	0287:0	0317:0	0347:0	0377:0	0407:18	0437:4	0467:0	Exch.Line Pad Class 9
0258:0	0288:0	0318:0	0348:0	0378:0	0408:0	0438:0	0468:0	Exch.Line Pad Class 10
0259:0	0289:0	0319:0	0349:0	0379:0	0409:18	0439:0	0469:0	Exch.Line Pad Class 11
0260:0	0290:0	0320:0	0350:0	0380:0	0410:0	0440:0	0470:0	Exch.Line Pad Class 12
0261:0	0291:0	0321:0	0351:0	0381:0	0411:18	0441:4	0471:0	Exch.Line Pad Class 13
0262:2	0292:0	0322:2	0352:0	0382:2	0412:0	0442:2	0472:0	Exch.Line Pad Class 14
0263:4	0293:0	0323:4	0353:0	0383:4	0413:2	0443:0	0473:0	Exch.Line Pad Class 15
0264:0	0294:0	0324:0	0354:0	0384:0	0414:0	0444:0	0474:0	Exch.Line Pad Class 16
0265:0	0295:0	0325:0	0355:0	0385:0	0415:18	0445:4	0475:0	Conference Call
0266:0	0296:0	0326:0	0356:0	0386:0	0416:18	0446:4	0476:0	Page Port
0267:0	0297:0	0327:0	0357:0	0387:0	0417:18	0447:4	0477:0	MFR
0268:0	0298:0	0328:0	0358:0	0388:0	0418:0	0448:0	0478:0	RAI Modem
0269:0	0299:0	0329:0	0359:0	0389:0	0419:18	0449:4	0479:0	Conference Call Unit
0270:0	0300:0	0330:0	0360:0	0390:0	0420:0	0450:0	0480:0	(Not Used)

Digital Pad Settings for BGM

0001 :4
BGM-ECLS01

(all CPCs) - Version 2.0 or higher

Set volume adjustments for phone connections between Background Music (BGM) service tone (the ***transmitting*** end of the connection) and Extension Pad Classes 1-8 (the ***receiving*** end of the connection).

FF1
System

FF1 8 03 (0001-0008) Hold (0-31) Hold

Address Nos. for Extension Pad Classes (receiving end) of BGM Service Tone:

0001=Extension Pad Class 1
0002=Extension Pad Class 2
0003=Extension Pad Class 3
0004=Extension Pad Class 4
0005=Extension Pad Class 5
0006=Extension Pad Class 6
0007=Extension Pad Class 7
0008=Extension Pad Class 8

(see table below for defaults)

Volume Adjustment Setting:

0= 0 dB	16= 0 dB
1= –2 dB	17= +2 dB
2= –4 dB	18= +4 dB
3= –6 dB	19= +6 dB
4= –8 dB	20= +8 dB
5= –10 dB	21= +10 dB
6= –12 dB	22= +12 dB
7= –14 dB	23= +14 dB
8= –16 dB	24= +16 dB
9= –18 dB	25= +18 dB
10= –20 dB	26= +20 dB
11= –22 dB	27= +22 dB
12= –24 dB	28= +24 dB
13= –26 dB	29= +26 dB
14= –28 dB	30= +28 dB
15= –30 dB	31= +30 dB

Notes:

Related Programming:

Table 1-21. Digital Pad Settings for BGM (FF1 8 03)

Address No.	for connection to (receiving end) ...	LCD Display	Default
0001	Extension Pad Class 1	**BGM-ECLS01**	4
0002	Extension Pad Class 2	**BGM-ECLS02**	4
0003	Extension Pad Class 3	**BGM-ECLS03**	0
0004	Extension Pad Class 4	**BGM-ECLS04**	0
0005	Extension Pad Class 5	**BGM-ECLS05**	0
0006	Extension Pad Class 6	**BGM-ECLS06**	0
0007	Extension Pad Class 7	**BGM-ECLS07**	0
0008	Extension Pad Class 8	**BGM-ECLS08**	0

Digital Pad Settings for Paging Port Adapter

0001 :0
Paging - ECLS01

(all CPCs) - Version 2.0 or higher

Set volume adjustments for phone connections from the Paging Port Adapter (***transmitting*** end) to Extension/Exchange Line Pad Classes (***receiving*** end) whenever the Talkback function is used.

FF1 8 04 (0001-0024) Hold (0-31) Hold

Address Nos. for receiving parties of the Paging Port Adapter --
0001-0008: Extension Pad Classes 1-8
0009-0024: Exchange Line Pad Classes 1-16

(see table below for addresses & defaults)

Volume Adjustment Setting:

0= 0 dB	16= 0 dB
1= –2 dB	17= +2 dB
2= –4 dB	18= +4 dB
3= –6 dB	19= +6 dB
4= –8 dB	20= +8 dB
5= –10 dB	21= +10 dB
6= –12 dB	22= +12 dB
7= –14 dB	23= +14 dB
8= –16 dB	24= +16 dB
9= –18 dB	25= +18 dB
10= –20 dB	26= +20 dB
11= –22 dB	27= +22 dB
12= –24 dB	28= +24 dB
13= –26 dB	29= +26 dB
14= –28 dB	30= +28 dB
15= –30 dB	31= +30 dB

Notes:

Related Programming:

Table 1-22. Digital Pad Settings for Paging Port Adapter (FF1 8 04)

Address No.	for connection to (receiving end) ...	LCD Display	Default
0001	Extension Pad Class 1	**Paging-ECLS01**	0
0002	Extension Pad Class 2	**Paging-ECLS02**	17
0003	Extension Pad Class 3	**Paging-ECLS03**	0
0004	Extension Pad Class 4	**Paging-ECLS04**	0
0005	Extension Pad Class 5	**Paging-ECLS05**	0
0006	Extension Pad Class 6	**Paging-ECLS06**	4
0007	Extension Pad Class 7	**Paging-ECLS07**	0
0008	Extension Pad Class 8	**Paging-ECLS08**	0
0009	Exchange Line Pad Class 1	**Paging-TCLS01**	0

0010	Exchange Line Pad Class 2	**Paging-TCLS02**	19
0011	Exchange Line Pad Class 3	**Paging-TCLS03**	0
0012	Exchange Line Pad Class 4	**Paging-TCLS04**	0
0013	Exchange Line Pad Class 5	**Paging-TCLS05**	0
0014	Exchange Line Pad Class 6	**Paging-TCLS06**	0
0015	Exchange Line Pad Class 7	**Paging-TCLS07**	0
0016	Exchange Line Pad Class 8	**Paging-TCLS08**	0
0017	Exchange Line Pad Class 9	**Paging-TCLS09**	0
0018	Exchange Line Pad Class 10	**Paging-TCLS010**	0
0019	Exchange Line Pad Class 11	**Paging-TCLS011**	0
0020	Exchange Line Pad Class 12	**Paging-TCLS012**	0
0021	Exchange Line Pad Class 13	**Paging-TCLS013**	0
0022	Exchange Line Pad Class 14	**Paging-TCLS014**	0
0023	Exchange Line Pad Class 15	**Paging-TCLS015**	0
0024	Exchange Line Pad Class 16	**Paging-TCLS016**	0

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System

Digital Pad Settings for 3-Party Conference

0001 :3
3 CONF-ECLS01

(all CPCs) - Version 2.0 or higher

Set volume adjustments for phone connections between an extension initiating a 3-Party Conference (***transmitting*** end) and Extension/Exchange Line Pad Classes (***receiving*** end).

FF1 8 05 (0001-0024) Hold (0-31) Hold

Address Nos. for receiving parties of a 3-Party Conference initiator --
0001-0008: Extension Pad Classes 1-8
0009-0024: Exchange Line Pad Classes 1-16

(see table below for addresses & defaults)

Volume Adjustment Setting:

0= 0 dB	16= 0 dB
1= –2 dB	17= +2 dB
2= –4 dB	18= +4 dB
3= –6 dB	19= +6 dB
4= –8 dB	20= +8 dB
5= –10 dB	21= +10 dB
6= –12 dB	22= +12 dB
7= –14 dB	23= +14 dB
8= –16 dB	24= +16 dB
9= –18 dB	25= +18 dB
10= –20 dB	26= +20 dB
11= –22 dB	27= +22 dB
12= –24 dB	28= +24 dB
13= –26 dB	29= +26 dB
14= –28 dB	30= +28 dB
15= –30 dB	31= +30 dB

Notes:

Related Programming:

Splash Tone: 3-Party Conference (pg. 1-11) FF1 0 01 0005 Hold (0 or 1) Hold

Table 1-23. Digital Pad Settings for 3-Party Conference (FF1 8 05)

Address No.	for connection to (receiving end) ...	LCD Display	Default
0001	Extension Pad Class 1	**3 CONF-ECLS01**	3
0002	Extension Pad Class 2	**3 CONF-ECLS02**	2
0003	Extension Pad Class 3	**3 CONF-ECLS03**	3
0004	Extension Pad Class 4	**3 CONF-ECLS04**	0
0005	Extension Pad Class 5	**3 CONF-ECLS05**	0
0006	Extension Pad Class 6	**3 CONF-ECLS06**	20
0007	Extension Pad Class 7	**3 CONF-ECLS07**	0
0008	Extension Pad Class 8	**3 CONF-ECLS08**	0
0009	Exchange Line Pad Class 1	**3 CONF-TCLS01**	0
0010	Exchange Line Pad Class 2	**3 CONF-TCLS02**	18
0011	Exchange Line Pad Class 3	**3 CONF-TCLS03**	0
0012	Exchange Line Pad Class 4	**3 CONF-TCLS04**	0
0013	Exchange Line Pad Class 5	**3 CONF-TCLS05**	0
0014	Exchange Line Pad Class 6	**3 CONF-TCLS06**	0
0015	Exchange Line Pad Class 7	**3 CONF-TCLS07**	0
0016	Exchange Line Pad Class 8	**3 CONF-TCLS08**	0
0017	Exchange Line Pad Class 9	**3 CONF-TCLS09**	0
0018	Exchange Line Pad Class 10	**3 CONF-TCLS010**	0
0019	Exchange Line Pad Class 11	**3 CONF-TCLS011**	0
0020	Exchange Line Pad Class 12	**3 CONF-TCLS012**	0
0021	Exchange Line Pad Class 13	**3 CONF-TCLS013**	0
0022	Exchange Line Pad Class 14	**3 CONF-TCLS014**	0
0023	Exchange Line Pad Class 15	**3 CONF-TCLS015**	0
0024	Exchange Line Pad Class 16	**3 CONF-TCLS016**	0

Digital Pad Settings for 8-Party Conference

0001 :3
8 CONF-ECLS01

(all CPCs) - Version 2.0 or higher

Set volume adjustments for phone connections between an extension initiating an 8-Party Conference (***transmitting*** end) and Extension/Exchange Line Pad Classes (***receiving*** end).

FF1 8 06 (0001-0024) Hold (0-31) Hold

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Address Nos. for receiving parties of an 8-Party Conference initiator --
0001-0008: Extension Pad Classes 1-8
0009-0024: Exchange Line Pad Classes 1-16

(see table below for addresses & defaults)

Volume Adjustment Setting:

0= 0 dB	16= 0 dB
1= –2 dB	17= +2 dB
2= –4 dB	18= +4 dB
3= –6 dB	19= +6 dB
4= –8 dB	20= +8 dB
5= –10 dB	21= +10 dB
6= –12 dB	22= +12 dB
7= –14 dB	23= +14 dB
8= –16 dB	24= +16 dB
9= –18 dB	25= +18 dB
10= –20 dB	26= +20 dB
11= –22 dB	27= +22 dB
12= –24 dB	28= +24 dB
13= –26 dB	29= +26 dB
14= –28 dB	30= +28 dB
15= –30 dB	31= +30 dB

Notes:

Related Programming:

Extension COS: 8-Party Conference (pg. 1-71) FF1 0 03 (00-15) 35 Hold (0 or 1) Hold

Table 1-24. Digital Pad Settings for 8-Party Conference (FF1 8 06)

Address No.	for connection to (receiving end) ...	LCD Display	Default
0001	Extension Pad Class 1	**8 CONF-ECLS01**	3
0002	Extension Pad Class 2	**8 CONF-ECLS02**	2
0003	Extension Pad Class 3	**8 CONF-ECLS03**	3
0004	Extension Pad Class 4	**8 CONF-ECLS04**	0
0005	Extension Pad Class 5	**8 CONF-ECLS05**	0
0006	Extension Pad Class 6	**8 CONF-ECLS06**	20
0007	Extension Pad Class 7	**8 CONF-ECLS07**	0
0008	Extension Pad Class 8	**8 CONF-ECLS08**	0
0009	Exchange Line Pad Class 1	**8 CONF-TCLS01**	0

0010	Exchange Line Pad Class 2	**8 CONF-TCLS02**	18
0011	Exchange Line Pad Class 3	**8 CONF-TCLS03**	0
0012	Exchange Line Pad Class 4	**8 CONF-TCLS04**	0
0013	Exchange Line Pad Class 5	**8 CONF-TCLS05**	0
0014	Exchange Line Pad Class 6	**8 CONF-TCLS06**	0
0015	Exchange Line Pad Class 7	**8 CONF-TCLS07**	0
0016	Exchange Line Pad Class 8	**8 CONF-TCLS08**	0
0017	Exchange Line Pad Class 9	**8 CONF-TCLS09**	0
0018	Exchange Line Pad Class 10	**8 CONF-TCLS010**	0
0019	Exchange Line Pad Class 11	**8 CONF-TCLS011**	0
0020	Exchange Line Pad Class 12	**8 CONF-TCLS012**	0
0021	Exchange Line Pad Class 13	**8 CONF-TCLS013**	0
0022	Exchange Line Pad Class 14	**8 CONF-TCLS014**	0
0023	Exchange Line Pad Class 15	**8 CONF-TCLS015**	0
0024	Exchange Line Pad Class 16	**8 CONF-TCLS016**	0

FF1
System

2. Exchange Line Programming (FF2)

Use the FF2 programming addresses in this chapter to set exchange line parameters for the ICX:

FF2 0: Analog Public Exchange Lines
FF2 0: AC-15 Private Lines
FF2 1: ISDN Exchange Lines
FF2 2: T1-CO Lines (future use)
FF2 2: T1-E&M Tie Lines (future use)

This chapter covers the following FF2 addresses:

FF2 0 BSSC 02 08 Hold (0 or 1) Hold	Caller ID Ring Control *(not applicable to U.K.)*		2-22
FF2 0 BSSC 02 09 Hold (0 or 1) Hold	Call Logging for Outbound Calls	1 (Include)	2-23
FF2 0 BSSC 02 10 Hold (0 or 1) Hold	Call Logging for Inbound Calls	0 (Exclude)	2-23
FF2 0 BSSC 02 11 Hold (0 or 1) Hold	Flash Key Operation	0 (send flash to public exchange)	2-24
FF2 0 BSSC 02 12 Hold (0 or 1) Hold	Long Talk Alarm	0 (Disabled)	2-24
FF2 0 BSSC 02 13 Hold (0 or 1) Hold	Alarm Ringing	0 (Disabled)	2-25
FF2 0 BSSC 02 14 Hold (0 or 1) Hold	Slide Ringing	0 (Disabled)	2-25
FF2 0 BSSC 02 15 Hold (0 or 1) Hold	DTMF Conversion (Outbound Calls)	1 (Enabled)	2-26
FF2 0 BSSC 02 16 Hold (0 or 1) Hold	DTMF Conversion (Inbound Calls)	1 (Enabled)	2-27
FF2 0 BSSC 02 17 Hold (0 or 1) Hold	Indirect LCR	0 (Disabled)	2-27
FF2 0 BSSC 02 18 Hold thru FF2 0 BSSC 02 20 Hold	Not Used	--	2-28
FF2 0 BSSC 03 0 Hold (0-6) Hold	Day1 Ring Type	0 (multi-incoming)	2-28
FF2 0 BSSC 03 1 Hold (0-9999) Hold	Day1 Ring Destination	--	2-28
FF2 0 BSSC 03 2 Hold (0-6) Hold	Day2 Ring Type	0 (multi-incoming)	2-30
FF2 0 BSSC 03 3 Hold (0-9999) Hold	Day2 Ring Destination	--	2-30
FF2 0 BSSC 03 4 Hold (0-6) Hold	Night Ring Type	0 (multi-incoming)	2-31
FF2 0 BSSC 03 5 Hold (0-9999) Hold	Night Ring Destination	--	2-31
FF2 0 BSSC 04 0 Hold (0-4) Hold	Day1 Delayed Ring Type	0 (Disabled)	2-32
FF2 0 BSSC 04 1 Hold (0-9999) Hold	Day1 Delayed Ring Destination	--	2-32
FF2 0 BSSC 04 2 Hold (0-4) Hold	Day2 Delayed Ring Type	0 (Disabled)	2-33
FF2 0 BSSC 04 3 Hold (0-9999) Hold	Day2 Delayed Ring Destination	--	2-33
FF2 0 BSSC 04 4 Hold (0-4) Hold	Night Delayed Ring Type	0 (Disabled)	2-34
FF2 0 BSSC 04 5 Hold (0-9999) Hold	Night Delayed Ring Destination	--	2-34
FF2 0 BSSC 05 Hold (0-72) Hold	Tenant Group Assignment	0 (none)	2-35
FF2 0 BSSC 06 0 Hold (1-50) Hold	TRS Class Assignment (Day)	1	2-35
FF2 0 BSSC 06 1 Hold (1-50) Hold	TRS Class Assignment (Night)	1	2-36
FF2 0 BSSC 07 Hold (1-16) Hold	Exchange Line COS Assignment	1	2-36
FF2 0 BSSC 08 Hold (1-16) Hold	Exchange Line Digital Pad Class Assignment	1	2-37
FF2 0: AC-15 Private Lines			**2-38**
FF2 0 BSSC 00 Hold (0-576) Hold	Private-Line Number Assignment	--	2-38
FF2 0 BSSC 01 00 Hold (0-5) Hold	Private Line Signal Type	5 (AC-15 Wink)	2-39
FF2 0 BSSC 01 01 Hold thru FF2 0 BSSC 01 04 Hold	Not Used	--	2-39
FF2 0 BSSC 01 05 Hold (0 or 1) Hold	Ring Detect Timer	0 (48ms)	2-40
FF2 0 BSSC 01 06 Hold (0 or 1) Hold	Auto Answer for Outbound Calls	0 (Disabled)	2-40
FF2 0 BSSC 01 07 Hold (0 or 1) Hold	Balance Control	0 (Long Loop)	2-41
FF2 0 BSSC 01 08 Hold (0 or 1) Hold	Pad Control	0 (Far)	2-41
FF2 0 BSSC 01 09 Hold FF2 0 BSSC 01 10 Hold	Not Used	--	2-42
FF2 0 BSSC 01 11 Hold (1-6) Hold	Ring Frequency	1 (400/562Hz)	2-42
FF2 0 BSSC 01 12 Hold (0-12) Hold	Ring Pattern	1 (1on/2off)	2-43
FF2 0 BSSC 01 13 Hold (0-2) Hold	DTMF On/Off Pattern During Talk	1 (Pattern #2)	2-44
FF2 0 BSSC 01 14 Hold (0-2) Hold	DTMF On/Off Pattern for Outgoing Dialling	0 (Pattern #1)	2-44
FF2 0 BSSC 01 15 Hold (0-3) Hold	Disconnect Supervision Timer	0 (160ms)	2-45
FF2 0 BSSC 01 16 Hold FF2 0 BSSC 01 17 Hold	Not Used	--	2-45
FF2 0 BSSC 01 18 Hold (0-3) Hold	Auto Answer Timer	0 (1 second)	2-46
FF2 0 BSSC 01 19 Hold	Not Used	--	2-46

FF2 0 BSSC 02 00 Hold (0 or 1) Hold	DTMF/Dial Pulse Dialling	1 (DTMF)	2-47
FF2 0 BSSC 02 01 Hold (0 or 1) Hold	Flash Pattern	0 (Pattern #1)	2-47
FF2 0 BSSC 02 02 Hold FF2 0 BSSC 02 03 Hold	Not Used	--	2-48
FF2 0 BSSC 02 04 Hold (0 or 1) Hold	Private Line Connection Type (Public Exchange or PBX)	0 (public exch.)	2-48
FF2 0 BSSC 02 05 Hold	Not Used	--	2-48
FF2 0 BSSC 02 06 Hold (0 or 1) Hold	DTMF After Answer (Link Control)	0 (Allowed)	2-49
FF2 0 BSSC 02 07 Hold (0 or 1) Hold	Public-Exchange Dial Tone Simulation	0 (Disabled)	2-49
FF2 0 BSSC 02 08 Hold	Not Used	--	2-50
FF2 0 BSSC 02 09 Hold (0 or 1) Hold	Call Logging for Outbound Calls	1 (Include)	2-50
FF2 0 BSSC 02 10 Hold (0 or 1) Hold	Call Logging for Inbound Calls	0 (Exclude)	2-50
FF2 0 BSSC 02 11 Hold (0 or 1) Hold	Flash Key Operation	0 (send flash to public exchange)	2-51
FF2 0 BSSC 02 12 Hold thru FF2 0 BSSC 02 14 Hold	Not Used	--	2-52
FF2 0 BSSC 02 15 Hold (0 or 1) Hold	DTMF Conversion (Outbound Calls)	1 (Enabled)	2-52
FF2 0 BSSC 02 16 Hold (0 or 1) Hold	DTMF Conversion (Inbound Calls)	1 (Enabled)	2-53
FF2 0 BSSC 02 17 Hold (0 or 1) Hold	Indirect LCR	0 (Disabled)	2-53
FF2 0 BSSC 02 18 Hold thru FF2 0 BSSC 02 20 Hold	Not Used	--	2-54
FF2 0 BSSC 03 0 Hold (0 or 1) Hold	Day1 Ring Type	0 (Tie Incoming)	2-54
FF2 0 BSSC 03 1 Hold	Not Used	--	2-54
FF2 0 BSSC 03 2 Hold (0 or 1) Hold	Day2 Ring Type	0 (Tie Incoming)	2-55
FF2 0 BSSC 03 3 Hold	Not Used	--	2-55
FF2 0 BSSC 03 4 Hold (0 or 1) Hold	Night Ring Type	0 (Tie Incoming)	2-55
FF2 0 BSSC 03 5 Hold	Not Used	--	2-56
FF2 0 BSSC 04 0 Hold thru FF2 0 BSSC 04 5 Hold	Not Used	--	2-56
FF2 0 BSSC 05 Hold (0-72) Hold	Tenant Group Assignment	0 (none)	2-57
FF2 0 BSSC 06 0 Hold (1-50) Hold	TRS Class Assignment (Day)	1	2-58
FF2 0 BSSC 06 1 Hold (1-50) Hold	TRS Class Assignment (Night)	1	2-58
FF2 0 BSSC 07 Hold (1-16) Hold	Exchange Line COS Assignment	1	2-59
FF2 0 BSSC 08 Hold (1-16) Hold	Exchange Line Digital Pad Class Assignment	8	2-59
FF2 1: ISDN Exchange Lines			**2-60**
FF2 1 BSS1 00 0 Hold (BSSC) Hold	D-Channel Position *(not applicable to U.K.)*	--	2-60
FF2 1 BSS1 00 1 Hold (1-127) Hold	D-Channel Interface ID Code *(not applicable to U.K.)*	--	2-60
FF2 1 BSSC 01 Hold (0-576) Hold	Exchange-Line Number Assignment (1st Channel)	--	2-61
FF2 1 BSSC 02 00 Hold (0 or 1) Hold	Exchange Line Connection Type (Point-to-Point/Multi-Point)	0 (Point-to-Point)	2-62
FF2 1 BSSC 02 01 Hold (0-6) Hold	Ring Frequency	1 (400/562Hz)	2-63
FF2 1 BSSC 02 02 Hold (0-12) Hold	Ring Pattern	1 (1on/2off)	2-64
FF2 1 BSSC 02 03 Hold (0-2) Hold	DTMF On/Off Pattern During Talk	1 (Pattern #2)	2-65
FF2 1 BSSC 02 04 Hold FF2 1 BSSC 02 05 Hold	Not Used	--	2-65
FF2 1 BSSC 03 00 Hold (0 or 1) Hold	Exchange Line Connection Type (Public Exchange or PBX)	0 (public exch.)	2-66
FF2 1 BSSC 03 01 Hold (0 or 1) Hold	Auto-Repeat Dial	1 (Allowed)	2-66
FF2 1 BSSC 03 02 Hold (0 or 1) Hold	Call Logging for Outbound Calls	1 (Include)	2-67

FF2 1 BSSC 03 03 Hold (0 or 1) Hold	Call Logging for Inbound Calls	0 (Exclude)	2-67
FF2 1 BSSC 03 04 Hold (0 or 1) Hold	Flash Key Operation	0 (talk disconnct/ keep exch.line)	2-68
FF2 1 BSSC 03 05 Hold (0 or 1) Hold	Long Talk Alarm	0 (Disabled)	2-68
FF2 1 BSSC 03 06 Hold (0 or 1) Hold	Alarm Ringing	0 (Disabled)	2-69
FF2 1 BSSC 03 07 Hold (0 or 1) Hold	Slide Ringing	0 (Disabled)	2-69
FF2 1 BSSC 03 08 Hold (0 or 1) Hold	Indirect LCR	0 (Disabled)	2-70
FF2 1 BSSC 03 09 Hold (0 or 1) Hold	B-Channel Select	0 (highest- no.'d)	2-71
FF2 1 BSSC 03 10 Hold (0 or 1) Hold	B-Channel Numbering (Layer 3)	1 (Channel No.'g)	2-71
FF2 1 BSSC 03 11 Hold (0 or 1) Hold	Call ID Length	0 (1 byte/BRI) 1 (2 bytes/PRI)	2-72
FF2 1 BSSC 03 12 Hold (0 or 1) Hold	Calling Number Send	1 (Enabled)	2-72
FF2 1 BSSC 03 13 Hold (0 or 1) Hold	Sub-Address Type	0 (IA5)	2-73
FF2 1 BSSC 03 14 Hold thru FF2 1 BSSC 03 22 Hold	Not Used	--	2-74
FF2 1 BSSC 04 0 Hold (0-6) Hold	Day1 Ring Type	0 (multi-incoming)	2-75
FF2 1 BSSC 04 1 Hold (0-9999) Hold	Day1 Ring Destination	--	2-75
FF2 1 BSSC 04 2 Hold (0-6) Hold	Day2 Ring Type	0 (multi-incoming)	2-76
FF2 1 BSSC 04 3 Hold (0-9999) Hold	Day2 Ring Destination	--	2-76
FF2 1 BSSC 04 4 Hold (0-6) Hold	Night Ring Type	0 (multi-incoming)	2-77
FF2 1 BSSC 04 5 Hold (0-9999) Hold	Night Ring Destination	--	2-77
FF2 1 BSSC 05 0 Hold (0-4) Hold	Day1 Delayed Ring Type	0 (Disabled)	2-78
FF2 1 BSSC 05 1 Hold (0-9999) Hold	Day1 Delayed Ring Destination	--	2-78
FF2 1 BSSC 05 2 Hold (0-4) Hold	Day2 Delayed Ring Type	0 (Disabled)	2-79
FF2 1 BSSC 05 3 Hold (0-9999) Hold	Day2 Delayed Ring Destination	--	2-79
FF2 1 BSSC 05 4 Hold (0-4) Hold	Night Delayed Ring Type	0 (Disabled)	2-80
FF2 1 BSSC 05 5 Hold (0-9999) Hold	Night Delayed Ring Destination	--	2-80
FF2 1 BSSC 06 (00-23/30) Hold (0-72) Hold	Tenant Group Assignment (B-Channel)	0 (none)	2-81
FF2 1 BSSC 07 0 Hold (1-50) Hold	TRS Class Assignment (Day)	1	2-82
FF2 1 BSSC 07 1 Hold (1-50) Hold	TRS Class Assignment (Night)	1	2-82
FF2 1 BSSC 08 Hold (1-16) Hold	Exchange Line COS Assignment	1	2-83
FF2 1 BSSC 09 0 Hold (up to 6 digits) Hold	Calling Number Area Code	--	2-83
FF2 1 BSSC 09 1 Hold (up to 6 digits) Hold	Calling Number Office Code	--	2-84
FF2 1 BSSC 09 2 Hold (up to 4 digits) Hold	Calling Number Subscriber Number	--	2-84
FF2 1 BSSC 10 Hold (1-16) Hold	Exchange Line Digital Pad Class Assignment	7	2-85
FF2 2: T1-CO Lines (future use)			**2-86**
FF2 2 BSSCC 00 Hold (0-2) Hold	Trunk Connection Type (CO/Network)	1 (CO)	2-86
FF2 2 BSSCC 01 Hold (0-576) Hold	Trunk Number Assignment	--	2-87
FF2 2 BSSCC 02 00 Hold (0-3) Hold	Trunk Signal Type	3 (DID-Wink)	2-87
FF2 2 BSSCC 02 01 Hold (0 or 1) Hold	Disconnect Detect	0 (Disabled)	2-88
FF2 2 BSSCC 02 02 Hold (0 or 1) Hold	Dial Pulse Minimum Pause	0 (625ms)	2-88
FF2 2 BSSCC 02 03 Hold (0 or 1) Hold	Ground Start Ring Type	0 (CO signal)	2-89
FF2 2 BSSCC 02 04 Hold (0 or 1) Hold	DID Ring Detect Timer	0 (32ms)	2-89
FF2 2 BSSCC 02 05 Hold	Not Used	--	2-90
FF2 2 BSSCC 02 06 Hold (0 or 1) Hold	Frame Format	0 (SF)	2-90
FF2 2 BSSCC 02 07 Hold (0 or 1) Hold	Line Coding	0 (AMI)	2-91
FF2 2 BSSCC 02 08 Hold (0-6) Hold	Ring Frequency	1 (400/562Hz)	2-91
FF2 2 BSSCC 02 09 Hold (0-12) Hold	Ring Pattern	1 (1on/3off)	2-92
FF2 2 BSSCC 02 10 Hold (0-2) Hold	DTMF On/Off Pattern During Talk	1 (Pattern #2)	2-93
FF2 2 BSSCC 02 11 Hold (0-2) Hold	DTMF On/Off Pattern for Outgoing Dialing	0 (Pattern #1)	2-93

FF2 2 BSSCC 02 12 Hold (0-3) Hold	Disconnect Supervision Timer	LS/GS: 0 (281ms) DID: 0 (96ms)	2-94
FF2 2 BSSCC 02 13 Hold (0-3) Hold	Guard Timer for Outbound Calls	0 (500ms)	2-95
FF2 2 BSSCC 02 14 Hold (0-3) Hold	Inbound Ground Detect Timer	0 (1 second)	2-95
FF2 2 BSSCC 02 15 Hold	Not Used	--	2-96
FF2 2 BSSCC 03 00 Hold (0 or 1) Hold	DTMF/Dial Pulse Dialing	1 (DTMF)	2-96
FF2 2 BSSCC 03 01 Hold (0 or 1) Hold	Flash Pattern	0 (Pattern #1)	2-96
FF2 2 BSSCC 03 02 Hold (0 or 1) Hold	Dial Tone Detection	1 (Enabled)	2-97
FF2 2 BSSCC 03 03 Hold (0 or 1) Hold	Trunk Connection Type (CO/PBX)	0 (CO)	2-97
FF2 2 BSSCC 03 04 Hold (0 or 1) Hold	Auto-Repeat Dial	1 (Allowed)	2-98
FF2 2 BSSCC 03 05 Hold (0 or 1) Hold	DTMF After Answer (Link Control)	0 (Allowed)	2-98
FF2 2 BSSCC 03 06 Hold (0 or 1) Hold	CO Dial Tone Simulation	0 (Disabled)	2-99
FF2 2 BSSCC 03 07 Hold (0 or 1) Hold	SMDR for Outbound Calls	1 (Include)	2-99
FF2 2 BSSCC 03 08 Hold (0 or 1) Hold	SMDR for Inbound Calls	0 (Exclude)	2-100
FF2 2 BSSCC 03 09 Hold (0 or 1) Hold	Flash Key Operation	0 (flash to CO)	2-100
FF2 2 BSSCC 03 10 Hold (0 or 1) Hold	Long Talk Alarm	0 (Disabled)	2-101
FF2 2 BSSCC 03 11 Hold (0 or 1) Hold	Alarm Ringing	0 (Disabled)	2-101
FF2 2 BSSCC 03 12 Hold (0 or 1) Hold	Slide Ringing	0 (Disabled)	2-102
FF2 2 BSSCC 03 13 Hold (0 or 1) Hold	DTMF Conversion (Outbound Calls)	1 (Enabled)	2-103
FF2 2 BSSCC 03 14 Hold (0 or 1) Hold	DTMF Conversion (Inbound Calls)	1 (Enabled)	2-103
FF2 2 BSSCC 03 15 Hold (0 or 1) Hold	Indirect LCR	0 (Disabled)	2-104
FF2 2 BSSCC 03 16 Hold (0 or 1) Hold	Call Duration	1 (System timer)	2-104
FF2 2 BSSCC 03 17 Hold FF2 2 BSSCC 03 18 Hold	Not Used	--	2-105
FF2 2 BSSCC 04 0 Hold (0-6) Hold	Day1 Ring Type	0 (multi-incoming)	2-106
FF2 2 BSSCC 04 1 Hold (0-9999) Hold	Day1 Ring Destination	--	2-106
FF2 2 BSSCC 04 2 Hold (0-6) Hold	Day2 Ring Type	0 (multi-incoming)	2-107
FF2 2 BSSCC 04 3 Hold (0-9999) Hold	Day2 Ring Destination	--	2-107
FF2 2 BSSCC 04 4 Hold (0-6) Hold	Night Ring Type	0 (multi-incoming)	2-108
FF2 2 BSSCC 04 5 Hold (0-9999) Hold	Night Ring Destination	--	2-108
FF2 2 BSSCC 05 0 Hold (0-4) Hold	Day1 Delayed Ring Type	0 (Disabled)	2-109
FF2 2 BSSCC 05 1 Hold (0-9999) Hold	Day1 Delayed Ring Destination	--	2-109
FF2 2 BSSCC 05 2 Hold (0-4) Hold	Day2 Delayed Ring Type	0 (Disabled)	2-110
FF2 2 BSSCC 05 3 Hold (0-9999) Hold	Day2 Delayed Ring Destination	--	2-110
FF2 2 BSSCC 05 4 Hold (0-4) Hold	Night Delayed Ring Type	0 (Disabled)	2-111
FF2 2 BSSCC 05 5 Hold (0-9999) Hold	Night Delayed Ring Destination	--	2-111
FF2 2 BSSCC 06 Hold (1-72) Hold	Tenant Group Assignment	--	2-112
FF2 2 BSSCC 07 0 Hold (1-50) Hold	TRS Class Assignment (Day)	1	2-112
FF2 2 BSSCC 07 1 Hold (1-50) Hold	TRS Class Assignment (Night)	1	2-113
FF2 2 BSSCC 08 Hold (1-16) Hold	Trunk COS Assignment	1	2-113
FF2 2 BSSCC 09 Hold (1-16) Hold	Trunk Digital Pad Class Assignment	7	2-114
FF2 2: T1-E&M Tie Lines (future use)			**2-115**
FF2 2 BSSCC 00 Hold (1-2) Hold	Trunk Connection Type (CO/Network)	1 (CO)	2-115
FF2 2 BSSCC 01 Hold (0-576) Hold	Trunk Number Assignment	--	2-116
FF2 2 BSSCC 02 00 Hold (0-5) Hold	Trunk Signal Type	5 (E&M Wink)	2-116
FF2 2 BSSCC 02 01 Hold thru FF2 2 BSSCC 02 03 Hold	Not Used	--	2-117
FF2 2 BSSCC 02 04 Hold (0 or 1) Hold	Ring Detect Timer	0 (48ms)	2-117
FF2 2 BSSCC 02 05 Hold (0 or 1) Hold	Auto Answer for Outbound Calls	0 (Disabled)	2-118
FF2 2 BSSCC 02 06 Hold (0 or 1) Hold	Frame Format	0 (SF)	2-118

FF2 2 BSSCC 02 07 Hold (0 or 1) Hold	Line Coding	0 (AMI)	2-119
FF2 2 BSSCC 02 08 Hold (0-6) Hold	Ring Frequency	1 (400/562Hz)	2-120
FF2 2 BSSCC 02 09 Hold (0-12) Hold	Ring Pattern	1 (1on/3off)	2-121
FF2 2 BSSCC 02 10 Hold (0-2) Hold	DTMF On/Off Pattern During Talk	1 (Pattern #2)	2-122
FF2 2 BSSCC 02 11 Hold (0-2) Hold	DTMF On/Off Pattern for Outgoing Dialing	0 (Pattern #1)	2-122
FF2 2 BSSCC 02 12 Hold (0-3) Hold	Disconnect Supervision Timer	0 (160ms)	2-123
FF2 2 BSSCC 02 13 Hold FF2 2 BSSCC 02 14 Hold	Not Used	--	2-123
FF2 2 BSSCC 02 15 Hold (0-3) Hold	Auto Answer Timer	0 (1 second)	2-124
FF2 2 BSSCC 03 00 Hold (0 or 1) Hold	DTMF/Dial Pulse Dialing	1 (DTMF)	2-124
FF2 2 BSSCC 03 01 Hold (0 or 1) Hold	Flash Pattern	0 (Pattern #1)	2-125
FF2 2 BSSCC 03 02 Hold	Not Used	--	2-125
FF2 2 BSSCC 03 03 Hold (0 or 1) Hold	Trunk Connection Type (CO/PBX)	0 (CO)	2-126
FF2 2 BSSCC 03 04 Hold	Not Used	--	2-126
FF2 2 BSSCC 03 05 Hold (0 or 1) Hold	DTMF After Answer (Link Control)	0 (Allowed)	2-126
FF2 2 BSSCC 03 06 Hold (0 or 1) Hold	CO Dial Tone Simulation	0 (Disabled)	2-127
FF2 2 BSSCC 03 07 Hold (0 or 1) Hold	SMDR for Outbound Calls	1 (Include)	2-127
FF2 2 BSSCC 03 08 Hold (0 or 1) Hold	SMDR for Inbound Calls	0 (Exclude)	2-128
FF2 2 BSSCC 03 09 Hold (0 or 1) Hold	Flash Key Operation	0 (flash to CO)	2-128
FF2 2 BSSCC 03 10 Hold thru FF2 2 BSSCC 03 12 Hold	Not Used	--	2-129
FF2 2 BSSCC 03 13 Hold (0 or 1) Hold	DTMF Conversion (Outbound Calls)	1 (Enabled)	2-129
FF2 2 BSSCC 03 14 Hold (0 or 1) Hold	DTMF Conversion (Inbound Calls)	1 (Enabled)	2-130
FF2 2 BSSCC 03 15 Hold (0 or 1) Hold	Indirect LCR	0 (Disabled)	2-130
FF2 2 BSSCC 03 16 Hold thru FF2 2 BSSCC 03 18 Hold	Not Used	--	2-131
FF2 2 BSSCC 04 0 Hold (0 or 1) Hold	Day1 Ring Type	0 (Tie incoming)	2-131
FF2 2 BSSCC 04 1 Hold	Not Used	--	2-132
FF2 2 BSSCC 04 2 Hold (0 or 1) Hold	Day2 Ring Type	0 (Tie incoming)	2-132
FF2 2 BSSCC 04 3 Hold	Not Used	--	2-131
FF2 2 BSSCC 04 4 Hold (0 or 1) Hold	Night Ring Type	0 (Tie incoming)	2-133
FF2 2 BSSCC 04 5 Hold	Not Used	--	2-133
FF2 2 BSSCC 05 0 Hold thru FF2 2 BSSCC 05 5 Hold	Not Used	--	2-134
FF2 2 BSSCC 06 Hold (0-72) Hold	Tenant Group Assignment	0 (none)	2-134
FF2 2 BSSCC 07 0 Hold (1-50) Hold	TRS Class Assignment (Day)	1	2-135
FF2 2 BSSCC 07 1 Hold (1-50) Hold	TRS Class Assignment (Night)	1	2-135
FF2 2 BSSCC 08 Hold (1-16) Hold	Trunk COS Assignment	1	2-136
FF2 2 BSSCC 09 Hold (1-16) Hold	Trunk Digital Pad Class Assignment	7	2-136

FF2 0: Analog Public Exchange Lines

NOTE: *The same FF2 0 addresses are also used for AC-15 private lines. However, their settings are different. See page 2-38 for* ***AC-15 Private Line*** *settings.*

Exchange-Line Number Assignment

BSSC-00 : Trunk Number

(all CPCs) - Version 2.0 or higher

Assign numbers to the analog public-exchange line circuits.

(or BLK-DOWN)

FF2 0 BSSC 00 Hold (0-576) Hold

BSSC: Analog Exchange Line Position -
B=CCU 1-6
SS=Slot 01-12
C=Circuit 1-8

Exch.Line No. 1-576 assigned to circuit (0=no exchange line no.)

default: (none)

NOTE: Available range of Exchange Line Numbers is determined by the CPC installed, and the number of CCUs specified in programming (see **0: System Configuration**).

CPC INSTALLED		NO. OF CCUS SPECIFIED IN PROGRAMMING					
(shaded cells not available with this CPC)	CPC-96:	1	2	3	4	5	6
	CPC-288:	1	2	3	4	5	6
	CPC-576:	1	2	3	4	5	6
Exchange Line No. range:		1-96	1-192	1-288	1-384	1-480	1-576

Notes:

Press the BLK-DOWN soft key instead of the last HOLD in the above address, to scroll to the next BSSC exchange line position and assign it a number (stay in same address).

Before removing an Exchange Line Card from a Free Slot, you must first clear the Exchange Line Numbers (if assigned) from all of the Card's BSSC ports in this address. See pg. 0-3 for more information.

Related Programming:

Exchange Line Connection Type (Public Exchange or PBX) (pg. 2-20) FF2 0 BSSC 02 04 Hold (0 or 1) Hold
Exchange Line Numbering (pg. 1-22) FF1 0 02 0001 Hold (0 or 1) Hold

Exchange Line Signal Type

BSSC-0100: Signal Type

(all CPCs) - Version 2.0 or higher

Set the analog exchange line's signalling type.

FF2 0 BSSC 01 00 Hold (0-3) Hold

BSSC: Analog Exchange Line Position -
B=CCU 1-6
SS=Slot 01-12
C=Circuit 1-8

0=Loop Start (default for LS)
(not available in U.K.) 1=Ground Start (default for GS)
(not available in U.K.) 2=DID Immediate Start (default for DID)
(not available in U.K.) 3=DID Wink Start

FF2 Exchange

Notes:

Related Programming:

Loop Detect

BSSC-0101:1 Loop Detect

(all CPCs) - Version 2.0 or higher

(also called "fire-and-disconnect") Enable/Disable system check for Loop Detect, if the exchange line is set for Loop-Start signalling in **Exchange Line Signal Type** (previous address).

FF2 0 BSSC 01 01 Hold (0 or 1) Hold

BSSC: Analog Exchange Line Position -
B=CCU 1-6
SS=Slot 01-12
C=Circuit 1-8

0=No Loop Detect
1=Loop Detect (default)

Notes:

If this address is set to "1" (Loop Detect enabled), system will check for loop signal when the exchange line is seized to place an outgoing call.

Related Programming:

Exchange Line Signal Type (pg. 2-8) **FF2 0 BSSC 01 00 Hold (0-3) Hold**

Disconnect Detect

BSSC-0102:0
DISC Detect

(all CPCs) - Version 2.0 or higher

Enable/Disable system detection of a disconnect signal (drop in voltage) sent by the public exchange when the other end disconnects first. Applies to outgoing calls on analog Loop-Start or Ground-Start exchange lines with **Loop Detect** enabled.

FF2 0 BSSC 01 02 Hold (0 or 1) Hold

BSSC: Analog Exchange Line Position -
B=CCU 1-6
SS=Slot 01-12
C=Circuit 1-8

0=Disconnect Detect (default)
1=No Disconnect Detect

FF2
Exchange

Notes:

Related Programming:

Loop Detect (pg. 2-8) **FF2 0 BSSC 01 01 Hold (0 or 1) Hold**

Dial Pulse Minimum Pause

BSSC-0103:0
DP MIN.Pause

(all CPCs) - Version 2.0 or higher

Set the dial pulse minimum pause time.

FF2 0 BSSC 01 03 Hold (0 or 1) Hold

BSSC: Analog Exchange Line Position -
B=CCU 1-6
SS=Slot 01-12
C=Circuit 1-8

0=625 ms (default-USA) or 750 ms (default-U.K.)
1=1000 ms (1 second)

Notes:

Related Programming:

DTMF/Dial Pulse Dialling (pg. 2-18) **FF2 0 BSSC 02 00 Hold (0 or 1) Hold**

Ground Start Ring Type

BSSC-0104:0
GS Ring Type

(all CPCs) - Version 2.0 or higher

(not applicable to U.K.) (for Ground Start lines only) Set whether the public exchange supplies the real ringing signal. (Ground Start lines typically need Tip-Ground for incoming signal.)

FF2 0 BSSC 01 04 Hold (0 or 1) Hold

BSSC: Analog Exchange Line Position -
B=CCU 1-6
SS=Slot 01-12
C=Circuit 1-8

0=Ringing signal (default)
1=No ringing signal

FF2
Exchange

Notes:

Related Programming:

Exchange Line Signal Type (pg. 2-8) FF2 0 BSSC 01 00 Hold (0-3) Hold

DID Ring Detect Timer

BSSC-0105:0
DID RingDET Time

(all CPCs) - Version 2.0 or higher

(not applicable to U.K.) Set the DID Ring Detect timer, which will be used to specify the ringing.

FF2 0 BSSC 01 05 Hold (0 or 1) Hold

BSSC: Analog Exchange Line Position -
B=CCU 1-6
SS=Slot 01-12
C=Circuit 1-8

0=32 ms (default)
1=96 ms

Notes:

If the exchange line is set for Immediate-Start signalling, the system will wait this long before recognising ring from the public exchange.

This setting is available only if the **Exchange Line Signal Type** is set for 2=DID Immediate Start or 3=DID Wink Start; it is not available for Loop Start or Ground Start signalling types.

Related Programming:

Exchange Line Signal Type (pg. 2-8) FF2 0 BSSC 01 00 Hold (0-3) Hold

Caller ID Receive Timer

BSSC-0106:0
CID Receive Timer??

(all CPCs) - Version 2.5 or higher

???

FF2 0 BSSC 01 06 Hold (0-???) Hold

BSSC: Analog Exchange Line Position -
B=CCU 1-6
SS=Slot 01-12
C=Circuit 1-8

0=2500 to 2850 ms (default)

Notes:

Related Programming:

Not Used

(all CPCs) - Version 2.0 or higher

FF2 0 BSSC 01 07 Hold

BSSC-0107:
Not Used

FF2 0 BSSC 01 08 Hold

BSSC-0108:
Not Used

Reverse Answer Signal Control

BSSC-0109:1
Reverse ANS SIG

(all CPCs) - Version 2.0 or higher

(not applicable to USA) Set whether the public exchange sends back reverse signalling when the called party answers an outgoing call on this exchange line.

FF2 0 BSSC 01 09 Hold (0 or 1) Hold

BSSC: Analog Exchange Line Position -
B=CCU 1-6
SS=Slot 01-12
C=Circuit 1-8

0=Reverse signal from public exchange.

1=No reverse signal from public exchange. (default)

FF2
Exchange

Notes:

Typically, COs in the USA do not send reverse signalling for called-party answer (leave this address at the default **"1=No reverse signal"**).

If this address is set to "0=Reverse signal," the **Call Duration Timer (Public Exchange Line) (pg. 1-131)** will not apply to this exchange line, even if its **Call Duration (pg. 2-20)** is set to "1=Use system timer."

Related Programming:

Call Duration (pg. 2-20) FF2 0 BSSC 02 03 Hold (0 or 1) Hold
Call Duration Timer (Public Exchange Line) (pg. 1-131) FF1 1 01 0005 Hold (1-255) Hold

Caller ID

BSSC-0110:0
CID Control

(all CPCs) - Version 2.0 or higher

(for USA and Hong Kong only) Enable/Disable the Caller ID feature on this analog exchange line.

FF2 0 BSSC 01 10 Hold (0 or 1) Hold

BSSC: Analog Exchange Line Position -
B=CCU 1-6
SS=Slot 01-12
C=Circuit 1-8

0=Disable Caller ID. (default)

1=Enable Caller ID.

Notes:

To install Caller ID (analog):

(1) Throw switches on the LTRK/8 (Loop-Start Trunk/8-port) Card.

(2) Install the CID Card (daughter board, mounted on the LTRK/8 Card).

(3) Set this parameter.

See *Section 300-Installation* for more information.

Related Programming:

Caller ID Ring Control (pg. 2-22) **FF2 0 BSSC 02 08 Hold (0 or 1) Hold**

Ring Frequency

BSSC-0111:1
Ring Frequency

(all CPCs) - Version 2.0 or higher

(for digital phones only) Set the ring frequency for incoming calls on this exchange line.

FF2 0 BSSC 01 11 Hold (0-6) Hold

BSSC: Analog Exchange Line Position -
B=CCU 1-6
SS=Slot 01-12
C=Circuit 1-8

0=Melody
1=400/562 Hz (default)
2=1000/1340 Hz
3=400 Hz
4=800/1040 Hz
5=1040/1320 Hz
6=660/1320 Hz

Notes:

If "0" (Melody) is selected, you must set the next address **(Ring Pattern)** to 12=Continuous tone. Otherwise, the Ring Pattern will interrupt the melody heard.

Related Programming:

Ring Pattern

BSSC-0112:0
Ring Cycle PTN

(all CPCs) - Version 2.0 or higher

Set the ring pattern for incoming calls on this exchange line.

FF2 0 BSSC 01 12 Hold (0-12) Hold

BSSC: Analog Exchange Line Position -
B=CCU 1-6
SS=Slot 01-12
C=Circuit 1-8

FF2
Exchange

Setting Values for U.K.		Setting Values for USA and Hong Kong	
0	**Synchronise with public exchange (default)**	**0**	**Synchronise with CO/public exchange (default)**
1	1on/2off (in seconds)	1	1on/3off (in seconds)
2	2on/1off	2	2on/2off
3	1on/1off	3	3on/1off
4	.5on/.5off	4	1on/1off
5	.25on/2.75off	5	.5on/.5off
6	.25on/.25off/.25on/2.25off	6	.5on/3.5off
7	.25on/.25off/.25on/.25off/.25on/1.75off	7	.5on/.5off/.5on/2.5off
8	.75on/.25off/.75on/1.25off	8	.25on/.25off/.25on/3.25off
9	1on/.25off/.25on/1.5off	9	1on/.25off/.25on/2.5off
10	1on/.25off/.25on/.25off/.25on/1off	10	1on/.25off/.25on/.25off/.25on/2off
11	1.375on/.125off/.125on/.125off/.125on/.125off	11	1.375on/.125off/.125on/.125off/.125on/.125off
12	Continuous tone	12	Continuous tone

Notes:

If this address is left at **"0=Synchronise with CO/public exchange" (default)**, and the exchange line's **Ring Type** is DDI/CLI or DISA, the system will automatically use setting 1's ring pattern.

If **Exchange Line COS: Incoming Ring Tone Source (pg. 1-88)** is set to **"0=Use exchange line's Ring Pattern" (default)**, the above Ring Pattern will apply to all incoming call types: multiple incoming, DL, DDI/CLI, DISA. However, if the **Ring Tone Source** is set to "1=Use intercom ring tone," the above Ring Pattern will apply only to multiple-incoming calls.

Related Programming:

Exchange Line COS: Incoming Ring Tone Source (pg. 1-88) FF1 0 04 (00-15) 01 Hold (0 or 1) Hold
Exchange Line COS Assignment (pg. 2-36) FF2 0 BSSC 07 Hold (1-16) Hold
Ring Type/Destination for analog exchange lines (pg. 2-28) FF2 0 BSSC 03 (0 thru 5) Hold...
FF4 0: FF-Keys on Digital Keyphones, SLTs, and EM/24 Units (pg. 4-7)
FF4 1: FF-Keys on DSS/72 Consoles (pg. 4-14)

DTMF On/Off Pattern During Talk

BSSC-0113:1
DTMF PTN-Talk

(all CPCs) - Version 2.0 or higher

Set the DTMF signalling pattern that will apply after an extension user connects to the called party during a public-exchange call on this exchange line.

FF2 0 BSSC 01 13 Hold (0-2) Hold

BSSC: Analog Exchange Line Position -
B=CCU 1-6
SS=Slot 01-12
C=Circuit 1-8

0=DTMF Pattern #1
1=DTMF Pattern #2 (default)
2=DTMF Pattern #3

FF2
Exchange

Notes:

This address applies to the entry of account codes, selection of voice menu options, etc. during a call.

Up to 3 different DTMF patterns can be defined in **FF1 1 01 (0016-0019).**

(all CPCs - Version 2.5 and higher) During a 3-Party Conference, if an extension dials digit(s), DTMF signals will be sent to the other party (mainly for Voice Mail connection).

Related Programming:

DTMF ON: Pattern #1 (pg. 1-136) FF1 1 01 0016 Hold (1-255) Hold
DTMF OFF: Pattern #1 (pg. 1-137) FF1 1 01 0017 Hold (1-255) Hold
DTMF ON/OFF: Pattern #2 (pg. 1-138) FF1 1 01 0018 Hold (1-255) Hold
DTMF ON/OFF: Pattern #3 (pg. 1-139) FF1 1 01 0019 Hold (1-255) Hold

DTMF On/Off Pattern for Outgoing Dialling

BSSC-0114:0
DTMF PTN-Dial

(all CPCs) - Version 2.0 or higher

Set the DTMF signalling pattern that will apply to the dialling of outbound phone numbers (DTMF sent to public exchange) on this exchange line.

FF2 0 BSSC 01 14 Hold (0-2) Hold

BSSC: Analog Exchange Line Position -
B=CCU 1-6
SS=Slot 01-12
C=Circuit 1-8

0=DTMF Pattern #1 (default)
1=DTMF Pattern #2
2=DTMF Pattern #3

Notes:

Up to 3 different DTMF patterns can be defined in **FF1 1 01 (0016-0019).**

Related Programming:

DTMF ON: Pattern #1 (pg. 1-136) FF1 1 01 0016 Hold (1-255) Hold
DTMF OFF: Pattern #1 (pg. 1-137) FF1 1 01 0017 Hold (1-255) Hold
DTMF ON/OFF: Pattern #2 (pg. 1-138) FF1 1 01 0018 Hold (1-255) Hold
DTMF ON/OFF: Pattern #3 (pg. 1-139) FF1 1 01 0019 Hold (1-255) Hold
DTMF/Dial Pulse Dialling (pg. 2-18) FF2 0 BSSC 02 00 Hold (0 or 1) Hold

Disconnect Supervision Timer

BSSC-0115:0
Disconnect Timer

(all CPCs) - Version 2.0 or higher

Set how long the system will wait after detecting a drop in voltage from the public exchange, before recognising it as a valid disconnect signal.

FF2 0 BSSC 01 15 Hold (0-3) Hold

BSSC: Analog Exchange Line Position -
B=CCU 1-6
SS=Slot 01-12
C=Circuit 1-8

if Exchange-Line Signalling is ...

Loop Start/Ground Start:	DID: *(not available in U.K.)*
0=281 ms (default)	**0=96 ms (default)**
1=531 ms	1=144 ms
2=781 ms	2=240 ms
3=1032 ms (1.032 seconds)	3=1500 ms (1.500 seconds)

Notes:

Related Programming:

Exchange Line Signal Type (pg. 2-8) FF2 0 BSSC 01 00 Hold (0-3) Hold

Guard Timer for Outbound Calls

BSSC-0116:0
Guard Timer

(all CPCs) - Version 2.0 or higher

Set how long the system guards the exchange line after a call is disconnected, to prevent “glare” (collision between an incoming and outgoing call).

FF2 0 BSSC 01 16 Hold (0-3) Hold

BSSC: Analog Exchange Line Position -
B=CCU 1-6
SS=Slot 01-12
C=Circuit 1-8

0=500 ms (.5 seconds) (default)
1=1000 ms (1 second)
2=1500 ms (1.5 seconds)
3=2000 ms (2 seconds)

Notes:

While the exchange line is guarded, it cannot be used for another call until this **Guard Timer** has expired.

This setting is available only if the **Exchange Line Signal Type** is set for 0=Loop Start or 1=Ground Start (it is not available for DID signaling types).

Related Programming:

Exchange Line Signal Type (pg. 2-8) **FF2 0 BSSC 01 00 Hold (0-3) Hold**

Inbound Ground Detect Timer

BSSC-0117:0
Ground OTG Timer

(all CPCs) - Version 2.0 or higher

(not applicable to U.K.) Set how long a public-exchange Tip-ground signal must be present on a Ground Start exchange line, before the system recognises it as a valid incoming call.

FF2 0 BSSC 01 17 Hold (0-3) Hold

BSSC: Analog Exchange Line Position -
B=CCU 1-6
SS=Slot 01-12
C=Circuit 1-8

0=1 second (default)
1=2 seconds
2=4 seconds
3=8 seconds

Notes:

If this **Inbound Ground Detect Timer** is set too short, the system may generate false ringing when Tip-ground is not removed quickly enough at the end of the call.

Related Programming:

Exchange Line Signal Type (pg. 2-8) **FF2 0 BSSC 01 00 Hold (0-3) Hold**

Not Used

(all CPCs) - Version 2.0 or higher

FF2 0 BSSC 01 18 Hold

BSSC-0118:
Not Used

Ring Interval for Abandoned Calls

BSSC-0119:0
RG Control

(all CPCs) - Version 2.0 or higher

Specify the timer for recognising that a ringing incoming call has been abandoned by the caller. If the next ring isn't received by the time this Timer expires, the call will be treated as abandoned (stop ringing).

FF2 0 BSSC 01 19 Hold (0-3) Hold

BSSC: Analog Exchange Line Position -
B=CCU 1-6
SS=Slot 01-12
C=Circuit 1-8

0=5 seconds (default)
1=6 seconds
2=8 seconds
3=11 seconds

FF2
Exchange

Notes:

Related Programming:

DTMF/Dial Pulse Dialling

BSSC-0200:1
Dial Type DP/PB

(all CPCs) - Version 2.0 or higher

Set the exchange line's signalling type for outbound and inbound dialling.

FF2 0 BSSC 02 00 Hold (0 or 1) Hold

BSSC: Analog Exchange Line Position -
B=CCU 1-6
SS=Slot 01-12
C=Circuit 1-8

0=Dial-pulse, at 10 pps
1=DTMF (default)

Notes:

Related Programming:

Flash Pattern

BSSC-0201:0
Flash Length

(all CPCs) - Version 2.0 or higher

Set which pattern will be used for flash signals to the public exchange.
(see **FF1 1: System Timers** to define Flash Patterns #1 and #2)

FF2 0 BSSC 02 01 Hold (0 or 1) Hold

BSSC: Analog Exchange Line Position -
B=CCU 1-6
SS=Slot 01-12
C=Circuit 1-8

0=Flash Pattern #1 (default)
1=Flash Pattern #2

Notes:

Two different Flash Patterns can be defined in **Flash Timers 1 and 2,** FF1 1 01 (0001-0002).

Related Programming:

Flash Timer 1 for Exchange Line (pg. 1-128) FF1 1 01 0001 Hold (1-255) Hold
Flash Timer 2 for Exchange Line (pg. 1-129) FF1 1 01 0002 Hold (1-255) Hold
Flash Key Operation (pg. 2-24) FF2 0 BSSC 02 11 Hold (0 or 1) Hold

Dial Tone Detection

BSSC-0202:1
DT Detect

(all CPCs) - Version 2.0 or higher

Set whether the system will check for public-exchange dial tone before sending dialled digits on this exchange line.

FF2 0 BSSC 02 02 Hold (0 or 1) Hold

BSSC: Analog Exchange Line Position -
B=CCU 1-6
SS=Slot 01-12
C=Circuit 1-8

0=No check (use precoded delay timer).
1=Check (send digits after dial tone is detected). (default)

Notes:

Related Programming:

Call Duration

BSSC-0203:1
Call Duration

(all CPCs) - Version 2.0 or higher

Set whether the system will use the **Call Duration Timer** to begin tracking call duration (both on LCD display and in Call Logging records) for outbound calls on this exchange line.

FF2 0 BSSC 02 03 Hold (0 or 1) Hold

BSSC: Analog Exchange Line Position -
B=CCU 1-6
SS=Slot 01-12
C=Circuit 1-8

0=Do not use system timer to start call duration.
1=Use system timer to start call duration. (default)

FF2 Exchange

Notes:

This address should be set to 0=Do not use system timer if the public exchange sends back reverse signalling for called-party answer (typical in the U.K.).

Related Programming:

Call Duration Timer (Public Exchange Line) (pg. 1-131) **FF1 1 01 0005 Hold (1-255) Hold**
Reverse Answer Signal Control (pg. 2-12) **FF2 0 BSSC 01 09 Hold (0 or 1) Hold**

Exchange Line Connection Type (Public Exchange or PBX)

BSSC-0204:0
TRK Type CO/PBX

(all CPCs) - Version 2.0 or higher

Set whether the exchange line connects directly to the public exchange, or is behind a PBX/Centrex.

FF2 0 BSSC 02 04 Hold (0 or 1) Hold

BSSC: Analog Exchange Line Position -
B=CCU 1-6
SS=Slot 01-12
C=Circuit 1-8

0=Public Exchange (default)
1=PBX

Notes:

Related Programming:

PBX Exchange Line Access Codes (pg. 1-106) **FF1 0 08 (0001-0006) Hold FL/R (0-9999) Hold**

Auto-Repeat Dial

BSSC-0205:1
Auto Repeat Dial

(all CPCs) - Version 2.0 or higher

Enable/Disable Auto-Repeat Dial on this exchange line.

FF2 0 BSSC 02 05 Hold (0 or 1) Hold

BSSC: Analog Exchange Line Position -
B=CCU 1-6
SS=Slot 01-12
C=Circuit 1-8

0=Do not allow Auto-Repeat Dial.
1=Allow Auto-Repeat Dial. (default)

FF2
Exchange

Notes:

Auto-Repeat Dial: Dial an outside call. If busy tone is received, press the FL/R key to have the system automatically redial the number at set intervals (max. 15 times) until the called party answers or the user hangs up.

Related Programming:

Flash Timer for Auto-Repeat Dial (pg. 1-129) FF1 1 01 0003 Hold (1-255) Hold

DTMF After Answer (Link Control)

BSSC-0206:0
Link Control

(all CPCs) - Version 2.0 or higher

(for DTMF SLT phones) Set whether DTMF signals can be sent through the system after the called party answers.

FF2 0 BSSC 02 06 Hold (0 or 1) Hold

BSSC: Analog Exchange Line Position -
B=CCU 1-6
SS=Slot 01-12
C=Circuit 1-8

0=Two-Way Link: DTMF path is open both ways. (default)

1=One-Way Link: No DTMF signalling after the called party answers.

Notes:

Set this address to "1=One-Way Link" to prevent double-dialling (placing another call on the same exchange line after the called party hangs up, thus bypassing TRS/Call Barring restrictions).

Related Programming:

DTMF/Dial Pulse Dialling (pg. 2-18) FF2 0 BSSC 02 00 Hold (0 or 1) Hold

Public-Exchange Dial Tone Simulation

BSSC-0207:0
CO-DT

(all CPCs) - Version 2.0 or higher

Set whether the system sends a simulated public-exchange dial tone on this exchange line (important for DDI Wink-Start signalling).

FF2 0 BSSC 02 07 Hold (0 or 1) Hold

BSSC: Analog Exchange Line Position -
B=CCU 1-6
SS=Slot 01-12
C=Circuit 1-8

0=Do not send simulated Public-Exch. dial tone to extension. (default)

1=Send simulated Public-Exch. dial tone.

FF2
Exchange

Notes:

Set this address to "1=Send" if the public exchange doesn't support dial tone (typical in the U.K.).

Related Programming:

Exchange Line Signal Type (pg. 2-8) **FF2 0 BSSC 01 00 Hold (0-3) Hold**

Caller ID Ring Control

BSSC-0208:0
INCM Control

(all CPCs) - Version 2.0 or higher

(for USA and Hong Kong only) Set whether the system will wait for Caller ID information before ringing an incoming call on this exchange line; or whether ringing will commence immediately.

FF2 0 BSSC 02 08 Hold (0 or 1) Hold

BSSC: Analog Exchange Line Position -
B=CCU 1-6
SS=Slot 01-12
C=Circuit 1-8

0=Wait for Caller ID data. (default)

1=Immediate ring (do not wait).

Notes:

The exchange line must be enabled for Caller ID (in FF2 0 BSSC 01 10) in order for this address to take effect.

Related Programming:

Caller ID (pg. 2-12) **FF2 0 BSSC 01 10 Hold (0 or 1) Hold**

Call Logging for Outbound Calls

BSSC-0209:1
SMDR Output/Out

(all CPCs) - Version 2.0 or higher

Set whether ***outbound*** calls on this exchange line will be included in Call Logging records.

FF2 0 BSSC 02 09 Hold (0 or 1) Hold

BSSC: Analog Exchange Line Position -
B=CCU 1-6
SS=Slot 01-12
C=Circuit 1-8

0=Do not include in Call Logging.
1=Include in Call Logging. (default)

Notes:

Related Programming:

Call Logging Data to Serial Port (pg. 1-102) FF1 0 06 0001 Hold (0-2) Hold
Call Logging Output Format (pg. 1-107) FF1 0 09 0001 Hold (0-2) Hold

Call Logging for Inbound Calls

BSSC-0210:0
SMDR Output/In

(all CPCs) - Version 2.0 or higher

Set whether ***incoming*** calls on this exchange line will be included in Call Logging records.

FF2 0 BSSC 02 10 Hold (0 or 1) Hold

BSSC: Analog Exchange Line Position -
B=CCU 1-6
SS=Slot 01-12
C=Circuit 1-8

0=Do not include in Call Logging. (default)
1=Include in Call Logging.

Notes:

Related Programming:

Call Logging Data to Serial Port (pg. 1-102) FF1 0 06 0001 Hold (0-2) Hold
Call Logging Output Format (pg. 1-107) FF1 0 09 0001 Hold (0-2) Hold

Flash Key Operation

BSSC-0211:0
Flash Control

(all CPCs) - Version 2.0 or higher

Set what happens when a digital phone user presses either the FL/R key, PROG key, or the feature codes “Recall/Flash” or “SLT Flash Send” during a call on this exchange line.

FF2 0 BSSC 02 11 Hold (0 or 1) Hold

BSSC: Analog Exchange Line Position -
B=CCU 1-6
SS=Slot 01-12
C=Circuit 1-8

0=Flash signal sent to public exchange. (default)
1=Exchange Line released/user hears internal dial tone.

FF2
Exchange

Notes:

The sending of the flash signal can also be enabled/disabled on individual extensions (see **Flash Signal Control** on pg. 3-19).

❒ If the flash signal is disabled on the exchange line but enabled on the extension, or vice versa, a flash signal ***will be sent*** when the user presses FL/R (or PROG, “Recall/Flash”, or “SLT Flash Send”).

Related Programming:

Flash Signal Control (pg. 3-19) FF3 0 BSSC 04 21 Hold (0 or 1) Hold
Flash Pattern (pg. 2-19) FF2 0 BSSC 02 01 Hold (0 or 1) Hold
Dial Plan A: Flexible Feature Codes at Dial Tone (pg. 1-168) FF1 2 02 (0001-0056) Hold (max. 4-digit Code) Hold
Dial Plan B: Flexible Feature Codes at Dial Tone (pg. 1-170) FF1 2 03 (0001-0056) Hold (max. 4-digit Code) Hold

Long Talk Alarm

BSSC-0212:0
Long-Talk Alarm

(all CPCs) - Version 2.0 or higher

Enable/Disable the alarm tone heard by an extension user during an outbound call on this exchange line, if the call lasts longer than the **Long Talk Alarm Timer.**

FF2 0 BSSC 02 12 Hold (0 or 1) Hold

BSSC: Analog Exchange Line Position -
B=CCU 1-6
SS=Slot 01-12
C=Circuit 1-8

0=Disable Long Talk Alarm. (default)
1=Enable Long Talk Alarm.

Notes:

By default, individual extensions are enabled for the Long Talk Alarm (via Extension COS setting).

Related Programming:

Long Talk Alarm #1 Timer (pg. 1-147) FF1 1 02 0010 Hold (0-255) Hold
Long Talk Alarm #2 Timer (pg. 1-148) FF1 1 02 0011 Hold (0-255) Hold
Extension COS: Long Talk Alarm (pg. 1-76) FF1 0 03 (00-15) 40 Hold (0 or 1) Hold

Alarm Ringing

BSSC-0213:0
Alarm Ringing

(all CPCs) - Version 2.0 or higher

Enable/Disable Alarm Ringing for incoming calls on this exchange line that ring unanswered for longer than the **Slide Ring/Alarm Ring Timer.**

FF2 0 BSSC 02 13 Hold (0 or 1) Hold

BSSC: Analog Exchange Line Position -
B=CCU 1-6
SS=Slot 01-12
C=Circuit 1-8

0=Disable Alarm Ringing. (default)
1=Enable Alarm Ringing.

FF2
Exchange

Notes:

Alarm Ringing: Ringing frequency/interval changes for an incoming call that rings unanswered for longer than the **Slide Ring/Alarm Ring Timer.**

Alarm Ringing will not work while Slide Ringing or Delayed Ringing is occurring.

Related Programming:

Ring Alarm Frequency (pg. 1-119) FF1 0 21 0001 Hold (0-6) Hold
Ring Alarm Pattern (pg. 1-120) FF1 0 21 0002 Hold (0-12) Hold
Slide Ring/Alarm Ring Timer (Day1) (pg. 1-145) FF1 1 02 0007 Hold (0-255) Hold
Slide Ring/Alarm Ring Timer (Day2) (pg. 1-146) FF1 1 02 0008 Hold (0-255) Hold
Slide Ring/Alarm Ring Timer (Night) (pg. 1-146) FF1 1 02 0009 Hold (0-255) Hold

Slide Ringing

BSSC-0214:0
Slide Ringing

(all CPCs) - Version 2.0 or higher

Enable/Disable Slide Ringing for incoming calls on this exchange line that ring unanswered for longer than the **Slide Ring/Alarm Ring Timer.**

FF2 0 BSSC 02 14 Hold (0 or 1) Hold

BSSC: Analog Exchange Line Position -
B=CCU 1-6
SS=Slot 01-12
C=Circuit 1-8

0=Disable Slide Ringing. (default)
1=Enable Slide Ringing.

Notes:

Slide Ringing: Applies to extensions that are Slide Ringing-enabled and have exchange lines (which are also Slide Ringing-enabled) assigned to FF-keys. An incoming call on the exchange line will ring at the assigned extension or hunt group first (see **Day1/2/Night Ring Assignments** in FF2). Then, after the **Slide Ring/Alarm Ring Timer** (in FF1) expires, the call will also begin ringing on the exchange line FF-keys (see **FF-Key Feature Assignment** in FF4).

Related Programming:

Slide Ring/Alarm Ring Timer (Day1) (pg. 1-145) FF1 1 02 0007 Hold (0-255) Hold
Slide Ring/Alarm Ring Timer (Day2) (pg. 1-146) FF1 1 02 0008 Hold (0-255) Hold
Slide Ring/Alarm Ring Timer (Night) (pg. 1-146) FF1 1 02 0009 Hold (0-255) Hold
Slide Ringing Receive (pg. 3-9) on individual extensions FF3 0 BSSC 04 02 Hold (0 or 1) Hold
Ring Type/Destination - Day1, Day2, Night (pg. 2-28) FF2 0 BSSC 03 (0-5) Hold (0-6 or 0-9999) Hold
FF-Key Feature Assignment (Digital Keyphones, SLTs, EM/24s) (pg. 4-7) FF4 0 BSSC 0 (01-32) Hold FL/R (Code) Hold

DTMF Conversion (Outbound Calls)

BSSC-0215:1
PB Convert/Out

(all CPCs) - Version 2.0 or higher

Set whether the exchange line will switch from dial-pulse to DTMF signalling after the called party answers an outgoing call, according to the **Call Duration Timer.**

FF2 0 BSSC 02 15 Hold (0 or 1) Hold

BSSC: Analog Exchange Line Position -
B=CCU 1-6
SS=Slot 01-12
C=Circuit 1-8

0=Do not switch to DTMF signalling.

1=Switch to DTMF signalling after the outside party answers. (default)

Notes:

Related Programming:

Call Duration Timer (Public Exchange Line) (pg. 1-131) FF1 1 01 0005 Hold (1-255) Hold
Call Duration (pg. 2-20) FF2 0 BSSC 02 03 Hold (0 or 1) Hold
DTMF/Dial Pulse Dialling (pg. 2-18) FF2 0 BSSC 02 00 Hold (0 or 1) Hold

DTMF Conversion (Inbound Calls)

BSSC-0216:1
PB Convert/In

(all CPCs) - Version 2.0 or higher

Set whether the exchange line will switch from dial-pulse to DTMF signalling after the extension user answers an incoming call.

FF2 0 BSSC 02 16 Hold (0 or 1) Hold

BSSC: Analog Exchange Line Position -
B=CCU 1-6
SS=Slot 01-12
C=Circuit 1-8

0=Do not switch to DTMF signalling.

1=Switch to DTMF signalling after the phone user answers. (default)

Notes:

Related Programming:

DTMF/Dial Pulse Dialling (pg. 2-18) **FF2 0 BSSC 02 00 Hold (0 or 1) Hold**

Indirect LCR

BSSC-0217:0
Indirect LCR

(all CPCs) - Version 2.0 or higher

(U.K. use only) Enable/Disable the Indirect Least Cost Routing (LCR) function.

FF2 0 BSSC 02 17 Hold (0 or 1) Hold

BSSC: Analog Exchange Line Position -
B=CCU 1-6
SS=Slot 01-12
C=Circuit 1-8

0=Disable Indirect LCR. (default)

1=Enable Indirect LCR.

Notes:

Indirect LCR: System will send a pre-assigned code (set in the ARS Dial Conversion Tables) when an extension seizes the exchange line to make an outgoing call. This feature is used in the U.K. for sending a system identification PIN number to the public exchange.

USA: Do not enable this address for MCO access code routing (eg., dialing "9" to get an outside line). Instead, use ARS tables (see FF6) so the system can distinguish intercom calls from outgoing calls.

Related Programming:

FF6 2 05: Digit Modify Table (pg. 6-40)

Not Used

(all CPCs) - Version 2.0 or higher

FF2 0 BSSC 02 18 Hold

BSSC-0218: Not Used

FF2 0 BSSC 02 19 Hold

BSSC-0219: Not Used

FF2 0 BSSC 02 20 Hold

BSSC-0220: Not Used

FF2
Exchange

Day1 Ring Type

BSSC-030:0 Day1 Ring Type

(all CPCs) - Version 2.0 or higher

Set the analog exchange line's ringing type for incoming calls during Day1 mode.

FF2 0 BSSC 03 0 Hold (0-6) Hold

BSSC: Analog Exchange Line Position -
B=CCU 1-6
SS=Slot 01-12
C=Circuit 1-8

0=Multiple Incoming (default)
1=DDI or CLI
2=DISA
3=DL to Extension
4=DL to Hunt Group
5=DL to SSD
6=DL to Attendant Hunt Group

Day1 Ring Destination

BSSC-031: D1 Destination

(all CPCs) - Version 2.0 or higher

Assign a destination extension, Hunt Group, SSD code, or Attendant Hunt Group for a DL (Direct Line) setting in the above address.

FF2 0 BSSC 03 1 Hold (0-9999) Hold

BSSC: Analog Exchange Line Position -
B=CCU 1-6
SS=Slot 01-12
C=Circuit 1-8

Destination Number:
(if "3=DL to Extension") Ext.No., Virtual Ext.No., or Closed No.
(if "4=DL to Hunt Group") Extension Hunt Group No. (1-72)
(if "5=DL to SSD") SSD Code No.
(if "6=DL to Attendant") Attendant Hunt Group Pilot No.

default: [no assignment]

Notes:

Multiple Incoming: An incoming call on this exchange line can ring on multiple extensions that have a public-exchange or MCO FF-key line appearance for it (see **FF4**: **Exchange-Line FF-Key** addresses).

Ring destinations for **DDI/CLI** exchange lines are assigned in **FF1 4: DDI/CLI Tables (pg. 1-183)**.

DISA exchange lines do not require a ring destination assignment; the DISA caller will dial the desired extension after entering the phone system.

To set up Virtual Port Ringing: Choose "3=DL to Extension" and enter the Virtual Port Extension No. (*not* the port no.) in the above addresses. Extension Numbers are assigned to Virtual Ports in FF3 2 (001-576) 00 Hold (0-9999) Hold (pg. 3-40).

Related Programming:

DDI/CLI Dial Table ("A" Side) (pg. 1-184) FF1 4 02 (000-575) (1-6) Hold (0-9999 or 1-72) Hold
DDI/CLI Dial Table ("B" Side) (pg. 1-187) FF1 4 04 (000-575) (1-6) Hold (0-9999 or 1-72) Hold
Extension Number Assignment (pg. 3-4) for digital keyphones/SLTs FF3 0 BSSC 02 Hold (0-9999) Hold
Extension Number Assignment (pg. 3-29) for S-point ISDN extensions FF3 1 BSSC 01 Hold (0-9999) Hold
Extension Number Assignment (pg. 3-40) FF3 2 (001-576) 00 Hold (0-9999) Hold
FF-Key Feature Assignment (Digital Keyphones, SLTs, EM/24s) (pg. 4-7) FF4 0 BSSC 0 (01-32) Hold FL/R (Code) Hold
FF-Key Feature Assignment (DSS/72) (pg. 4-14) FF4 1 BSSC 0 (01-72) Hold FL/R (Code) Hold
FF5 1: Extension Hunt Groups (pg. 5-13)
Attendant HG: Pilot Number (pg. 5-3) FF5 0 01 Hold (0-9999) Hold
Closed Number Table: Digit String (pg. 6-44) FF6 2 07 (001-150) 0001 Hold (1-4 digits) Hold
SSD Numbers (pg. 8-46) FF8 1 02 Hold 0 Hold Hold (00/0-79/9) Hold FL/R (up to 24 char.) Hold

Day2 Ring Type

BSSC-032:0
Day2 Ring Type

(all CPCs) - Version 2.0 or higher

Set the analog exchange line's ringing type for incoming calls during Day2 mode.

FF2 0 BSSC 03 2 Hold (0-6) Hold

BSSC: Analog Exchange Line Position -
B=CCU 1-6
SS=Slot 01-12
C=Circuit 1-8

0=Multiple Incoming (default)
1=DDI or CLI
2=DISA
3=DL to Extension
4=DL to Hunt Group
5=DL to SSD
6=DL to Attendant Hunt Group

FF2
Exchange

Day2 Ring Destination

BSSC-033:
D2 Destination

(all CPCs) - Version 2.0 or higher

Assign a destination extension, Hunt Group, SSD code, or Attendant Hunt Group for a DL (Direct Line) setting in the above address.

FF2 0 BSSC 03 3 Hold (0-9999) Hold

BSSC: Analog Exchange Line Position -
B=CCU 1-6
SS=Slot 01-12
C=Circuit 1-8

Destination Number:
(if "3=DL to Extension") Ext.No., Virtual Ext.No., or Closed No.
(if "4=DL to Hunt Group") Extension Hunt Group No. (1-72)
(if "5=DL to SSD") SSD Code No.
(if "6=DL to Attendant") Attendant Hunt Group Pilot No.

default: [no assignment]

Notes: *(see* **"Day1 Ring Type/Destination" - pg. 2-28***)*

Related Programming: *(see* **"Day1 Ring Type/Destination" - pg. 2-28***)*

Night Ring Type

BSSC-034:0
Night Ring Type

(all CPCs) - Version 2.0 or higher

Set the analog exchange line's ringing type for incoming calls during Night mode.

FF2 0 BSSC 03 4 Hold (0-6) Hold

BSSC: Analog Exchange Line Position -
B=CCU 1-6
SS=Slot 01-12
C=Circuit 1-8

0=Multiple Incoming (default)
1=DDI or CLI
2=DISA
3=DL to Extension
4=DL to Hunt Group
5=DL to SSD
6=DL to Attendant Hunt Group

FF2
Exchange

Night Ring Destination

BSSC-035:
N Destination

(all CPCs) - Version 2.0 or higher

Assign a destination extension, Hunt Group, SSD code, or Attendant Hunt Group for a DL (Direct Line) setting in the above address.

FF2 0 BSSC 03 5 Hold (0-9999) Hold

BSSC: Analog Exchange Line Position -
B=CCU 1-6
SS=Slot 01-12
C=Circuit 1-8

Destination Number:
(if "3=DL to Extension") Ext. No., Virtual Ext.No., or Closed No.
(if "4=DL to Hunt Group") Extension Hunt Group No. (1-72)
(if "5=DL to SSD") SSD Code No.
(if "6=DL to Attendant") Attendant Hunt Group Pilot No.

default: [no assignment]

Notes: *(see* **"Day1 Ring Type/Destination" - pg. 2-28***)*

Related Programming: *(see* **"Day1 Ring Type/Destination" - pg. 2-28***)*

Day1 Delayed Ring Type

BSSC-040:0
Day1 D-Ring Type

(all CPCs) - Version 2.0 or higher

Set the analog exchange line's delayed-ringing type during Day1 mode.
NOTE: **Day1 Ring Type (pg. 2-28)** must be either "DL" or "Multiple Incoming" to set Day1 Delayed Ringing (DDI/CLI and DISA do not apply here).

FF2 0 BSSC 04 0 Hold (0-4) Hold

BSSC: Analog Exchange Line Position -
B=CCU 1-6
SS=Slot 01-12
C=Circuit 1-8

0=Disabled/no delayed ringing (default)
1=Delay-ring to Extension
2=Delay-ring to Hunt Group
3=Delay-ring to SSD
4=Delay-ring to Attendant Hunt Group

FF2
Exchange

Day1 Delayed Ring Destination

BSSC-041:
D1 D-Destination

(all CPCs) - Version 2.0 or higher

Assign a destination extension, Hunt Group, SSD code, or Attendant Hunt Group, depending on the setting in the above address.

FF2 0 BSSC 04 1 Hold (0-9999) Hold

BSSC: Analog Exchange Line Position -
B=CCU 1-6
SS=Slot 01-12
C=Circuit 1-8

Destination Number:
(if "1=Delay-ring to Extension") Ext.No., Virtual Ext.No., or Closed No.
(if "2=Delay-ring to Hunt Group") Extension Hunt Group No. (1-72)
(if "3=Delay-ring to SSD") SSD Code No.
(if "4=Delay-ring to Attendant") Attendant Hunt Group Pilot No.

default: [no assignment]

Notes:

Delayed ringing for **DDI/CLI** exchange lines are assigned in **FF1 4: DDI/CLI Tables (pg. 1-183)**.

Related Programming:

Day1 Ring Type (pg. 2-28) FF2 0 BSSC 03 0 Hold (0-6) Hold
Extension Number Assignment (pg. 3-4) for digital keyphones/SLTs FF3 0 BSSC 02 Hold (0-9999) Hold
Extension Number Assignment (pg. 3-29) for S-point ISDN extensions FF3 1 BSSC 01 Hold (0-9999) Hold
Extension Number Assignment (pg. 3-40) FF3 2 (001-576) 00 Hold (0-9999) Hold
Attendant HG: Pilot Number (pg. 5-3) FF5 0 01 Hold (0-9999) Hold
FF5 1: Extension Hunt Groups (pg. 5-13)
Closed Number Table: Digit String (pg. 6-44) FF6 2 07 (001-150) 0001 Hold (1-4 digits) Hold
SSD Numbers (pg. 8-46) FF8 1 02 Hold 0 Hold Hold (00/0-79/9) Hold FL/R (up to 24 char.) Hold
CO Delayed Ring Timer ...
Day1 unanswered calls (pg. 1-142) FF1 1 02 0003 Hold (0-255) Hold

Day2 unanswered calls (pg. 1-142) FF1 1 02 0004 Hold (0-255) Hold
Night unanswered calls (pg. 1-143) FF1 1 02 0005 Hold (0-255) Hold
Busy (pg. 1-144) FF1 1 02 0006 Hold (0-255) Hold

Day2 Delayed Ring Type

BSSC-042:0
Day2 D-Ring Type

(all CPCs) - Version 2.0 or higher

Set the analog exchange line's delayed-ringing type during Day2 mode.
NOTE: **Day2 Ring Type (pg. 2-30)** must be either "DL" or "Multiple Incoming" to set Day2 Delayed Ringing (DDI/CLI and DISA do not apply here).

FF2 0 BSSC 04 2 Hold (0-4) Hold

BSSC: Analog Exchange Line Position -
B=CCU 1-6
SS=Slot 01-12
C=Circuit 1-8

0=Disabled/no delayed ringing (default)
1=Delay-ring to Extension
2=Delay-ring to Hunt Group
3=Delay-ring to SSD
4=Delay-ring to Attendant Hunt Group

Day2 Delayed Ring Destination

BSSC-043:
D2 D-Destination

(all CPCs) - Version 2.0 or higher

Assign a destination extension, Hunt Group, SSD code, or Attendant Hunt Group, depending on the setting in the above address.

FF2 0 BSSC 04 3 Hold (0-9999) Hold

BSSC: Analog Exchange Line Position -
B=CCU 1-6
SS=Slot 01-12
C=Circuit 1-8

Destination Number:
(if "1=Delay-ring to Extension") Ext.No., Virtual Ext.No., or Closed No.
(if "2=Delay-ring to Hunt Group") Extension Hunt Group No. (1-72)
(if "3=Delay-ring to SSD") SSD Code No.
(if "4=Delay-ring to Attendant") Attendant Hunt Group Pilot No.

default: [no assignment]

Notes: *(see* **"Day1 Delayed Ring Type/Destination" - pg. 2-32***)*

Related Programming: *(see* **"Day1 Delayed Ring Type/Destination" - pg. 2-32***)*

Night Delayed Ring Type

BSSC-044:0
NGT D-Ring Type

(all CPCs) - Version 2.0 or higher

Set the analog exchange line's delayed-ringing type during Night mode.
NOTE: **Night Ring Type (pg. 2-31)** must be either "DL" or "Multiple Incoming" to set Night Delayed Ringing (DDI/CLI and DISA do not apply here).

FF2 0 BSSC 04 4 Hold (0-4) Hold

BSSC: Analog Exchange Line Position -
B=CCU 1-6
SS=Slot 01-12
C=Circuit 1-8

0=Disabled/no delayed ringing (default)
1=Delay-ring to Extension
2=Delay-ring to Hunt Group
3=Delay-ring to SSD
4=Delay-ring to Attendant Hunt Group

FF2
Exchange

Night Delayed Ring Destination

BSSC-045:
N D-Destination

(all CPCs) - Version 2.0 or higher

Assign a destination extension, Hunt Group, SSD code, or Attendant Hunt Group, depending on the setting in the above address.

FF2 0 BSSC 04 5 Hold (0-9999) Hold

BSSC: Analog Exchange Line Position -
B=CCU 1-6
SS=Slot 01-12
C=Circuit 1-8

Destination Number:
(if "1=Delay-ring to Extension") Ext.No., Virtual Ext.No., or Closed No.
(if "2=Delay-ring to Hunt Group") Extension Hunt Group No. (1-72)
(if "3=Delay-ring to SSD") SSD Code No.
(if "4=Delay-ring to Attendant") Attendant Hunt Group Pilot No.

default: [no assignment]

Notes: *(see* **"Day1 Delayed Ring Type/Destination" - pg. 2-32***)*

Related Programming: *(see* **"Day1 Delayed Ring Type/Destination" - pg. 2-32***)*

Tenant Group Assignment

BSSC-05 :0
Tenant Group

(all CPCs) - Version 2.0 or higher

Assign the exchange line to a Tenant Group, which will apply when the exchange line originates an outbound call (such as DISA).

FF2 0 BSSC 05 Hold (0-72) Hold

BSSC: Analog Exchange Line Position -
B=CCU 1-6
SS=Slot 01-12
C=Circuit 1-8

Tenant Group No. 1-72

default: 0 (no Tenant Group assigned)

FF2
Exchange

NOTE: Available range of Tenant Group Nos. is determined by the CPC installed, and the number of CCUs specified in programming (see **0: System Configuration**).

CPC INSTALLED		NO. OF CCUS SPECIFIED IN PROGRAMMING					
(shaded cells not available with this CPC)	CPC-96:	1	2	3	4	5	6
	CPC-288:	1	2	3	4	5	6
	CPC-576:	1	2	3	4	5	6
Tenant Group No. range:		12	24	36	48	60	72

Notes:

Related Programming:

MOH Source for Exchange Lines (pg. 1-110) **FF1 0 12 (0001-0072) Hold (0-3) Hold**

TRS Class Assignment (Day)

BSSC-060 :1
Day1/2 TRS CLS

(all CPCs) - Version 2.0 or higher

Assign a Toll Restriction Service (TRS/Call Barring) class to the exchange line, applicable during Day1 and Day2 modes when the exchange line originates an outbound call (such as DISA).

FF2 0 BSSC 06 0 Hold (1-50) Hold

BSSC: Analog Exchange Line Position -
B=CCU 1-6
SS=Slot 01-12
C=Circuit 1-8

TRS Class No. 1-50 for Day Mode

default: 1 (USA, U.K.)
9 (all others)

Notes:

Related Programming:

FF6 1: TRS Class Definitions (pg. 6-16)

TRS Class Assignment (Night)

BSSC-061: 1
Night TRS CLS

(all CPCs) - Version 2.0 or higher

Assign a Toll Restriction Service (TRS/Call Barring) class to the exchange line, applicable during Night mode when the exchange line originates an outbound call (such as DISA).

FF2
Exchange

FF2 0 BSSC 06 1 Hold (1-50) Hold

BSSC: Analog Exchange Line Position -
B=CCU 1-6
SS=Slot 01-12
C=Circuit 1-8

TRS Class No. 1-50 for Night Mode

default: 1 (USA, U.K.)
9 (all others)

Notes:

Related Programming:

FF6 1: TRS Class Definitions (pg. 6-16)

Exchange Line COS Assignment

BSSC-07 :1
Trunk COS

(all CPCs) - Version 2.0 or higher

Assign a Class of Service (COS) number to the exchange line.

FF2 0 BSSC 07 Hold (1-16) Hold

BSSC: Analog Exchange Line Position -
B=CCU 1-6
SS=Slot 01-12
C=Circuit 1-8

Exchange Line COS No. 1-16

default: 1

Notes:

This **Exchange Line COS Assignment** controls the ring tone for incoming calls on this exchange line: public-exchange ring tone, intercom ring tone, or (for DL exchange lines) a specific ring pattern. The

COS also controls various network settings. For more information, see **FF1 0 04: Exchange Line COS Definitions (pg. 1-88)**.

Related Programming:

Exchange Line COS: Incoming Ring Tone Source (pg. 1-88) FF1 0 04 (00-15) 01 Hold (0 or 1) Hold
Exchange Line COS: DDI/CLI Table (pg. 1-91) FF1 0 04 (00-15) 04 Hold (0 or 1) Hold
Exchange Line COS: Paging on DISA/Private Line Call (pg. 1-92) FF1 0 04 (00-15) 05 Hold (0 or 1) Hold
Exchange Line COS: DISA ID Verification (pg. 1-93) FF1 0 04 (00-15) 06 Hold (0 or 1) Hold
Ring Pattern (pg. 2-14) FF2 0 BSSC 01 12 Hold (0-12) Hold
Day1/Day2/Night Ring Type/Destination (pg. 2-28) FF2 0 BSSC 03 (0 thru 5) ...

Exchange Line Digital Pad Class Assignment

BSSC-08 :1
Trunk DPAD CLS

(all CPCs) - Version 2.0 or higher

Assign a Digital Pad Class to the analog exchange line.

FF2 0 BSSC 08 Hold (1-16) Hold

BSSC: Analog Exchange Line Position -
B=CCU 1-6
SS=Slot 01-12
C=Circuit 1-8

Exchange Line Digital Pad Class 1-16

default: 1

Notes:

Based on this setting, you can assign automatic volume adjustments for different connection types to this exchange line (see FF1 8 02).

Related Programming:

Digital Pad Settings for Exchange Line Pad Class (pg. 1-195) FF1 8 02 (0001-0480) Hold (0-31) Hold

FF2 0: AC-15 Private Lines

*NOTE: The same **FF2 0** addresses are also used for analog public-exchange lines. However, their settings are different. See page 2-7 for **Analog Exchange Line** settings.*

Private-Line Number Assignment

BSSC-00 : Trunk Number

(all CPCs) - Version 2.0 or higher

FF2 Exchange

Assign numbers to the AC-15 private-line circuits.

(or BLK-DOWN)

FF2 0 BSSC 00 Hold (0-576) Hold

BSSC: AC-15 Private Line Position -
B=CCU 1-6
SS=Slot 01-12
C=Circuit 1-4

Private Line No. 1-576 assigned to circuit (0=no number assignment)

default: (none)

NOTE: Available range of Private-Line Numbers is determined by the CPC installed, and the number of CCUs specified in programming (see **0: System Configuration**).

CPC INSTALLED		NO. OF CCUS SPECIFIED IN PROGRAMMING					
(shaded cells not available with this CPC)	CPC-96:	1	2	3	4	5	6
	CPC-288:	1	2	3	4	5	6
	CPC-576:	1	2	3	4	5	6
Private-Line No. range:		1-96	1-192	1-288	1-384	1-480	1-576
max. Private-Line circuits:		1-48	1-96	1-144	1-192	1-240	1-288

Notes:

Press the BLK-DOWN soft key instead of the last HOLD in the above address, to scroll to the next BSSC position and assign it a number (stay in same address).

Before removing an AC-15 Private-Line Card from a Free Slot, you must first clear the **Private-Line Number Assignment** (if assigned) from all of the Card's BSSC ports in this address. See pg. 0-3 for more information.

The above "Private Line No. ranges" do not reflect the actual number of AC-15 private-line circuits available. For example, in a 576-port system the range of available Private Line *Numbers* is 576, but the actual number of *circuits* available is only 288 (each AC-15 Private Line Card has only 4 circuits, as opposed to 8 circuits on a regular analog exchange-line card).

Related Programming:

Exchange Line Numbering (pg. 1-22) FF1 0 02 0001 Hold (0 or 1) Hold
Private Line Connection Type (Public Exchange or PBX) (pg. 2-48) FF2 0 BSSC 02 04 Hold (0 or 1) Hold

Private Line Signal Type

BSSC-0100:5
Signal Type

(all CPCs) - Version 2.0 or higher

Set the AC-15 private-line's signalling type.

FF2 0 BSSC 01 00 Hold (0-5) Hold

BSSC: AC-15 Private Line Position -
B=CCU 1-6
SS=Slot 01-12
C=Circuit 1-4

0-3=Not Used *(these apply to analog exchange lines; see pg. 2-7)*
4=AC-15 Immediate Start
5=AC-15 Wink Start (default)

Notes:

Related Programming:

Not Used

(all CPCs) - Version 2.0 or higher

FF2 0 BSSC 01 01 Hold	BSSC-0101 : Not Used
FF2 0 BSSC 01 02 Hold	BSSC-0102 : Not Used
FF2 0 BSSC 01 03 Hold	BSSC-0103 : Not Used
FF2 0 BSSC 01 04 Hold	BSSC-0104 : Not Used

Ring Detect Timer

BSSC-0105 :0
Ring DET Timer

(all CPCs) - Version 2.0 or higher

Set the amount of time allowed for the system to recognise an incoming call on AC-15 private lines that are set for Immediate Start signalling (see **Private Line Signal Type).**

FF2 0 BSSC 01 05 Hold (0 or 1) Hold

BSSC: AC-15 Private Line Position -
B=CCU 1-6
SS=Slot 01-12
C=Circuit 1-4

0=48 ms (default)
1=160 ms

FF2
Exchange

Notes:

Related Programming:

Private Line Signal Type (pg. 2-39) **FF2 0 BSSC 01 00 Hold (0-5) Hold**

Auto Answer for Outbound Calls

BSSC-0106 :0
Auto Detect ANS

(all CPCs) - Version 2.0 or higher

Set whether the system will automatically assume that an outgoing call on this private line has been answered by the other end, without waiting for an answer signal.

FF2 0 BSSC 01 06 Hold (0 or 1) Hold

BSSC: AC-15 Private Line Position -
B=CCU 1-6
SS=Slot 01-12
C=Circuit 1-4

0=Disable Auto Answer; wait for answer signal from other end, before opening voice path. (default)

1=Enable Auto Answer; open voice path without waiting for answer signal.

Notes:

Set this to "1=Enable" only if the other system does not send back an answer signal (typically, it does), or if the private line is used for paging calls.

Related Programming:

Auto Answer Timer (pg. 2-46) **FF2 0 BSSC 01 18 Hold (0-3) Hold**

Balance Control

BSSC-0107 :0
Balance Control

(all CPCs) - Version 2.0 or higher

For impedance matching in balanced networks. Controls sidetone level on the private line, based on the distance between the phone system and the other end.

FF2 0 BSSC 01 07 Hold (0 or 1) Hold

BSSC: AC-15 Private Line Position -
B=CCU 1-6
SS=Slot 01-12
C=Circuit 1-4

0=Long Loop (default)
1=Short Loop

FF2
Exchange

Notes:

Because there are so many factors involved in choosing **Long Loop** or **Short Loop** (such as what kind of wire/match is used for each connection; distance; Ohms/match; R, L, & C; etc.), this setting should be tested on the private line, or changed only if problems occur.

Related Programming:

Pad Control

BSSC-0108 :0
PAD Control

(all CPCs) - Version 2.0 or higher

For balanced networks. Controls voice level on the AC-15 Private Line, depending on the distance between the phone system and the other end (which is either the public exchange or another PBX).

FF2 0 BSSC 01 08 Hold (0 or 1) Hold

BSSC: AC-15 Private Line Position -
B=CCU 1-6
SS=Slot 01-12
C=Circuit 1-4

0=Far (default)
1=Near

Notes:

Related Programming:

Not Used

(all CPCs) - Version 2.0 or higher

FF2 0 BSSC 01 09 Hold

BSSC-0109 :
Not Used

FF2 0 BSSC 01 10 Hold

BSSC-0110 :
Not Used

FF2
Exchange

Ring Frequency

BSSC-0111 :1
Ring Frequency

(all CPCs) - Version 2.0 or higher

(for digital phones only) Set the ring frequency for AC-15 private lines.

FF2 0 BSSC 01 11 Hold (1-6) Hold

BSSC: AC-15 Private Line Position -
B=CCU 1-6
SS=Slot 01-12
C=Circuit 1-4

1=400/562 Hz (default)
2=1000/1340 Hz
3=400 Hz
4=800/1040 Hz
5=1040/1320 Hz
6=660/1320 Hz

Notes:

Related Programming:

Ring Pattern

BSSC-0112 :1
Ring Cycle PTN

(all CPCs) - Version 2.0 or higher

(not applicable to USA) (affects digital phones only) Set the ring pattern for multiple-incoming calls (FF-key line appearances) on the AC-15 private line, or set it to synchronise ringing with the exchange line.

FF2 0 BSSC 01 12 Hold (0-12) Hold

BSSC: AC-15 Private Line Position -
B=CCU 1-6
SS=Slot 01-12
C=Circuit 1-4

Setting Values for U.K.		Setting Values for all other countries	
0	Synchronise with exchange line	**0**	Synchronise with trunk
1	**1on/2off (in seconds) (default)**	**1**	1on/3off (in seconds)
2	2on/1off	**2**	2on/2off
3	1on/1off	**3**	3on/1off
4	.5on/.5off	**4**	1on/1off
5	.25on/2.75off	**5**	**.5on/.5off (default)**
6	.25on/.25off/.25on/2.25off	**6**	.5on/3.5off
7	.25on/.25off/.25on/.25off/.25on/1.75off	**7**	.5on/.5off/.5on/2.5off
8	.75on/.25off/.75on/1.25off	**8**	.25on/.25off/.25on/3.25off
9	1on/.25off/.25on/1.5off	**9**	1on/.25off/.25on/2.5off
10	1on/.25off/.25on/.25off/.25on/1off	**10**	1on/.25off/.25on/.25off/.25on/2off
11	1.375on/.125off/.125on/.125off/.125on/.125off	**11**	1.375on/.125off/.125on/.125off/.125on/.125off
12	Continuous tone	**12**	Continuous tone

Notes:

This address does not apply to DL calls, which ring on the phone's "INT" LED (not on an FF-key).

Related Programming:

FF4 0: FF-Keys on Digital Keyphones, SLTs, and EM/24 Units (pg. 4-7)
FF4 1: FF-Keys on DSS/72 Consoles (pg. 4-14)

DTMF On/Off Pattern During Talk

BSSC-0113 :1
DTMF PTN-Talk

(all CPCs) - Version 2.0 or higher

Set the DTMF signalling pattern that will apply after the extension user connects to the called party during a public-exchange call on the AC-15 private line.

FF2 0 BSSC 01 13 Hold (0-2) Hold

BSSC: AC-15 Private Line Position -
B=CCU 1-6
SS=Slot 01-12
C=Circuit 1-4

0=DTMF Pattern #1
1=DTMF Pattern #2 (default)
2=DTMF Pattern #3

FF2
Exchange

Notes:

This address applies to the entry of account codes, selection of voice menu options, etc. during a call.

Up to 3 different DTMF patterns can be defined in **FF1 1 01 (0016-0019).**

(all CPCs - Version 2.5 and higher) During a 3-Party Conference, if an extension dials digit(s), DTMF signals will be sent to the other party (mainly for Voice Mail connection).

Related Programming:

DTMF ON: Pattern #1 (pg. 1-136) FF1 1 01 0016 Hold (1-255) Hold
DTMF OFF: Pattern #1 (pg. 1-137) FF1 1 01 0017 Hold (1-255) Hold
DTMF ON/OFF: Pattern #2 (pg. 1-138) FF1 1 01 0018 Hold (1-255) Hold
DTMF ON/OFF: Pattern #3 (pg. 1-139) FF1 1 01 0019 Hold (1-255) Hold

DTMF On/Off Pattern for Outgoing Dialling

BSSC-0114 :0
DTMF PTN-Dial

(all CPCs) - Version 2.0 or higher

Set the DTMF signalling pattern that will apply to the dialling of outbound phone numbers (DTMF sent to public exchange) on the AC-15 private line.

FF2 0 BSSC 01 14 Hold (0-2) Hold

BSSC: AC-15 Private Line Position -
B=CCU 1-6
SS=Slot 01-12
C=Circuit 1-4

0=DTMF Pattern #1 (default)
1=DTMF Pattern #2
2=DTMF Pattern #3

Notes:

Up to 3 different DTMF patterns can be defined in **FF1 1 01 (0016-0019).**

Related Programming:

DTMF ON: Pattern #1 (pg. 1-136) FF1 1 01 0016 Hold (1-255) Hold

DTMF OFF: Pattern #1 (pg. 1-137) **FF1 1 01 0017 Hold (1-255) Hold**
DTMF ON/OFF: Pattern #2 (pg. 1-138) **FF1 1 01 0018 Hold (1-255) Hold**
DTMF ON/OFF: Pattern #3 (pg. 1-139) **FF1 1 01 0019 Hold (1-255) Hold**

Disconnect Supervision Timer

BSSC-0115 :0
Disconnect Time

(all CPCs) - Version 2.0 or higher

Set how long the system will wait after detecting a drop in voltage from the public exchange, before recognising it as a valid disconnect signal on this private line.

FF2 0 BSSC 01 15 Hold (0-3) Hold

BSSC: AC-15 Private Line Position -
B=CCU 1-6
SS=Slot 01-12
C=Circuit 1-4

0=160 ms (default)
1=96 ms
2=240 ms
3=800 ms

Notes:

Related Programming:

Not Used

(all CPCs) - Version 2.0 or higher

FF2 0 BSSC 01 16 Hold

BSSC-0116 :
Not Used

FF2 0 BSSC 01 17 Hold

BSSC-0117 :
Not Used

Auto Answer Timer

BSSC-0118 :0
Auto ANS Timer

(all CPCs) - Version 2.0 or higher

Set how long the system will wait before opening a voice path when the user makes an outgoing call on this private line.

FF2 0 BSSC 01 18 Hold (0-3) Hold

BSSC: AC-15 Private Line Position -
B=CCU 1-6
SS=Slot 01-12
C=Circuit 1-4

0=1 second (default)
1=2 seconds
2=3 seconds
3=4 seconds

FF2
Exchange

Notes:

Whether **Auto Answer** is enabled or disabled on this private line (see FF2 0 BSSC 01 1), the **Auto Answer Timer** will begin after the digits are outpulsed.

- If **Auto Answer** is enabled, the system will wait until the **Timer** expires before opening a voice path.
- If **Auto Answer** is disabled, the system will open the voice path when either: (1) the answer signal is received from the other end, or (2) the **Auto Answer Timer** expires -- whichever occurs first.

Related Programming:

Auto Answer for Outbound Calls (pg. 2-40) **FF2 0 BSSC 01 06 Hold (0 or 1) Hold**

Not Used

(all CPCs) - Version 2.0 or higher

FF2 0 BSSC 01 19 Hold

BSSC-0119 :
Not Used

DTMF/Dial Pulse Dialling

BSSC-0200 :1
Dial Type DP/PB

(all CPCs) - Version 2.0 or higher

Set the AC-15 private line's signalling type for outbound and inbound dialling.

FF2 0 BSSC 02 00 Hold (0 or 1) Hold

BSSC: AC-15 Private Line Position -
B=CCU 1-6
SS=Slot 01-12
C=Circuit 1-4

0=Dial-pulse, at 10 pps
1=DTMF (default)

Notes:

Related Programming:

Flash Pattern

BSSC-0201 :0
Flash Length

(all CPCs) - Version 2.0 or higher

Set which pattern will be used for flash signals to the public exchange on this private line. (see **System Timers** to define Flash Patterns #1 and #2)

FF2 0 BSSC 02 01 Hold (0 or 1) Hold

BSSC: AC-15 Private Line Position -
B=CCU 1-6
SS=Slot 01-12
C=Circuit 1-4

0=Flash Pattern #1 (default)
1=Flash Pattern #2

Notes:

Two different Flash Patterns can be defined in **Flash Timers 1 and 2:** FF1 1 01 (0001-0002).

Related Programming:

Flash Timer 1 for Exchange Line (pg. 1-128) FF1 1 01 0001 Hold (1-255) Hold
Flash Timer 2 for Exchange Line (pg. 1-129) FF1 1 01 0002 Hold (1-255) Hold
Flash Key Operation (pg. 2-51) FF2 0 BSSC 02 11 Hold (0 or 1) Hold

Not Used

(all CPCs) - Version 2.0 or higher

FF2 0 BSSC 02 02 Hold — **BSSC-0202 : Not Used**

FF2 0 BSSC 02 03 Hold — **BSSC-0203 : Not Used**

FF2 Exchange

Private Line Connection Type (Public Exchange or PBX)

BSSC-0204 :0 TRK Type CO/PBX

(all CPCs) - Version 2.0 or higher

Set whether the AC-15 private line connects directly to another AC-15 private line (through the public exchange), or is behind a PBX/Centrex.

FF2 0 BSSC 02 04 Hold (0 or 1) Hold

BSSC: AC-15 Private Line Position -
B=CCU 1-6
SS=Slot 01-12
C=Circuit 1-4

0=Public Exchange (default)
1=PBX

Notes:

Related Programming:

PBX Exchange Line Access Codes (pg. 1-106) **FF1 0 08 (0001-0006) Hold FL/R (0-9999) Hold**

Not Used

(all CPCs) - Version 2.0 or higher

FF2 0 BSSC 02 05 Hold — **BSSC-0205 : Not Used**

DTMF After Answer (Link Control)

BSSC-0206 :0
Link Control

(all CPCs) - Version 2.0 or higher

(for DTMF SLT phones) Set whether DTMF signals can be sent through the system after the called party answers.

FF2 0 BSSC 02 06 Hold (0 or 1) Hold

BSSC: AC-15 Private Line Position -
B=CCU 1-6
SS=Slot 01-12
C=Circuit 1-4

0=Two-Way Link: DTMF path is open both ways. (default)

1=One-Way Link: No DTMF signalling after the called party answers.

FF2
Exchange

Notes:

Set this address to "1=One-Way Link" to prevent double-dialling (placing another call on the same private line after the called party hangs up, thus bypassing TRS/Call Barring restrictions).

Related Programming:

Public-Exchange Dial Tone Simulation

BSSC-0207 :0
CO-DT For Tie

(all CPCs) - Version 2.0 or higher

Set whether the system sends a simulated public-exchange dial tone on this private line (important for DDI Wink-Start signalling).

FF2 0 BSSC 02 07 Hold (0 or 1) Hold

BSSC: AC-15 Private Line Position -
B=CCU 1-6
SS=Slot 01-12
C=Circuit 1-4

0=Do not send simulated Public-Exch. dial tone to extension. (default)

1=Send simulated Public-Exch. dial tone.

Notes:

Set this address to "1=Send" if the public exchange doesn't support dial tone (typical in U.K.).

Related Programming:

Private Line Signal Type (pg. 2-39) **FF2 0 BSSC 01 00 Hold (0-5) Hold**

Not Used

(all CPCs) - Version 2.0 or higher

FF2 0 BSSC 02 08 Hold

BSSC-0208 :
Not Used

Call Logging for Outbound Calls

BSSC-0209 :1
SMDR Output/Out

FF2
Exchange

(all CPCs) - Version 2.0 or higher

Set whether ***outbound*** calls on the AC-15 private line will be included in Call Logging records.

FF2 0 BSSC 02 09 Hold (0 or 1) Hold

BSSC: AC-15 Private Line Position -
B=CCU 1-6
SS=Slot 01-12
C=Circuit 1-4

0=Do not include in Call Logging.
1=Include in Call Logging. (default)

Notes:

Related Programming:

Call Logging Data to Serial Port (pg. 1-102) FF1 0 06 0001 Hold (0-2) Hold
Call Logging Output Format (pg. 1-107) FF1 0 09 0001 Hold (0-2) Hold

Call Logging for Inbound Calls

BSSC-0210 :0
SMDR Output/In

(all CPCs) - Version 2.0 or higher

Set whether ***incoming*** calls on this AC-15 private line will be included in Call Logging records.

FF2 0 BSSC 02 10 Hold (0 or 1) Hold

BSSC: AC-15 Private Line Position -
B=CCU 1-6
SS=Slot 01-12
C=Circuit 1-4

0=Do not include in Call Logging. (default)
1=Include in Call Logging.

Notes:

Related Programming:

Call Logging Data to Serial Port (pg. 1-102) FF1 0 06 0001 Hold (0-2) Hold
Call Logging Output Format (pg. 1-107) FF1 0 09 0001 Hold (0-2) Hold

Flash Key Operation

BSSC-0211 :0
Flash Control

(all CPCs) - Version 2.0 or higher

Set what happens when a digital phone user presses either the FL/R key, PROG key, or the feature codes “Recall/Flash” or “SLT Flash Send” during a call on this private line.

FF2 0 BSSC 02 11 Hold (0 or 1) Hold

BSSC: AC-15 Private Line Position -
B=CCU 1-6
SS=Slot 01-12
C=Circuit 1-4

0=Flash signal is sent to public exchange. (default)
1=Private line released/user hears internal dial tone.

FF2
Exchange

Notes:

The sending of the flash signal can also be enabled/disabled on individual extensions (see **Flash Signal Control** on pg. 3-19).

❒ If the flash signal is disabled on the exchange line but enabled on the extension, or vice versa, a flash signal ***will be sent*** when the user presses FL/R (or PROG, “Recall/Flash”, or “SLT Flash Send”).

Related Programming:

Flash Signal Control (pg. 3-19) FF3 0 BSSC 04 21 Hold (0 or 1) Hold
Flash Pattern (pg. 2-47) FF2 0 BSSC 02 01 Hold (0 or 1) Hold
Dial Plan A: Flexible Feature Codes at Dial Tone (pg. 1-168) FF1 2 02 (0001-0056) Hold (max. 4-digit Code) Hold
Dial Plan B: Flexible Feature Codes at Dial Tone (pg. 1-170) FF1 2 03 (0001-0056) Hold (max. 4-digit Code) Hold

Not Used

(all CPCs) - Version 2.0 or higher

FF2 0 BSSC 02 12 Hold — BSSC-0212 : Not Used

FF2 0 BSSC 02 13 Hold — BSSC-0213 : Not Used

FF2 0 BSSC 02 14 Hold — BSSC-0214 : Not Used

FF2
Exchange

DTMF Conversion (Outbound Calls)

BSSC-0215 :1 PB Convert/Out

(all CPCs) - Version 2.0 or higher

Set whether the AC-15 private line will switch from dial-pulse to DTMF signalling after the called party answers an outgoing call, according to the **Call Duration Timer.**

FF2 0 BSSC 02 15 Hold (0 or 1) Hold

BSSC: AC-15 Private Line Position -
B=CCU 1-6
SS=Slot 01-12
C=Circuit 1-4

0=Do not switch to DTMF signalling.

1=Switch to DTMF signalling after the outside party answers. (default)

Notes:

Related Programming:

Call Duration Timer (Private Line) (pg. 1-131) FF1 1 01 0006 Hold (1-255) Hold
DTMF/Dial Pulse Dialling (pg. 2-47) FF2 0 BSSC 02 00 Hold (0 or 1) Hold

DTMF Conversion (Inbound Calls)

BSSC-0216 :1
PB Convert/In

(all CPCs) - Version 2.0 or higher

Set whether the AC-15 private line will switch from dial-pulse to DTMF signalling after the extension user answers an incoming call.

FF2 0 BSSC 02 16 Hold (0 or 1) Hold

BSSC: AC-15 Private Line Position -
B=CCU 1-6
SS=Slot 01-12
C=Circuit 1-4

0=Do not switch to DTMF signalling.

1=Switch to DTMF signalling after the phone user answers. (default)

FF2
Exchange

Notes:

Related Programming:

DTMF/Dial Pulse Dialling (pg. 2-47) **FF2 0 BSSC 02 00 Hold (0 or 1) Hold**

Indirect LCR

BSSC-0217 :0
Indirect LCR

(all CPCs) - Version 2.0 or higher

(U.K. use only) Enable/Disable the Indirect Least Cost Routing (LCR) function on the AC-15 private line.

FF2 0 BSSC 02 17 Hold (0 or 1) Hold

BSSC: AC-15 Private Line Position -
B=CCU 1-6
SS=Slot 01-12
C=Circuit 1-4

0=Disable Indirect LCR. (default)

1=Enable Indirect LCR.

Notes:

Indirect LCR: System will send a pre-assigned code (set in the ARS Dial Conversion Tables) when an extension seizes the exchange line to make an outgoing call. This feature is used in the U.K. for sending a system identification PIN number to the public exchange.

USA: Do not enable this address for MCO access code routing (eg., dialing "9" to get an outside line). Instead, use ARS tables (see FF6) so the system can distinguish intercom calls from outgoing calls.

Related Programming:

FF6 2 05: Digit Modify Table (pg. 6-40)

Not Used

(all CPCs) - Version 2.0 or higher

FF2 0 BSSC 02 18 Hold

BSSC-0218 :
Not Used

FF2 0 BSSC 02 19 Hold

BSSC-0219 :
Not Used

FF2 0 BSSC 02 20 Hold

BSSC-0220 :
Not Used

FF2
Exchange

Day1 Ring Type

BSSC-030 :0
Day1 Ring Type

(all CPCs) - Version 2.0 or higher

Set ring type for incoming calls on the AC-15 private line during Day1 mode.

FF2 0 BSSC 03 0 Hold (0 or 1) Hold

BSSC: AC-15 Private Line Position -
B=CCU 1-6
SS=Slot 01-12
C=Circuit 1-4

0=Tie Incoming. (default) Check digits and ring the extension or paging.

1=Tandem. Check digits based on Tandem Table.

Notes:

Related Programming:

FF6 2 08: Tandem Exchange Table (pg. 6-47)

Not Used

(all CPCs) - Version 2.0 or higher

FF2 0 BSSC 03 1 Hold

BSSC-031 :
Not Used

Day2 Ring Type

BSSC-032 :0
Day2 Ring Type

(all CPCs) - Version 2.0 or higher

Set ring type for incoming calls on the AC-15 private line during Day2 mode.

FF2 0 BSSC 03 2 Hold (0 or 1) Hold

BSSC: AC-15 Private Line Position -
B=CCU 1-6
SS=Slot 01-12
C=Circuit 1-4

0=Tie Incoming. (default) Check digits and ring the extension or paging.

1=Tandem. Check digits based on Tandem Table.

FF2
Exchange

Notes:

Related Programming:

FF6 2 08: Tandem Exchange Table (pg. 6-47)

Not Used

(all CPCs) - Version 2.0 or higher

FF2 0 BSSC 03 3 Hold

BSSC-033 :
Not Used

Night Ring Type

BSSC-034 :0
Night Ring Type

(all CPCs) - Version 2.0 or higher

Set ring type for incoming calls on the AC-15 private line during Night mode.

FF2 0 BSSC 03 4 Hold (0 or 1) Hold

BSSC: AC-15 Private Line Position -
B=CCU 1-6
SS=Slot 01-12
C=Circuit 1-4

0=Tie Incoming. (default) Check digits and ring the extension or paging.

1=Tandem. Check digits based on Tandem Table.

Notes:

Related Programming:

FF6 2 08: Tandem Exchange Table (pg. 6-47)

FF2 Exchange

Not Used

(all CPCs) - Version 2.0 or higher

FF2 0 BSSC 03 5 Hold

BSSC-035 : Not Used

Not Used

(all CPCs) - Version 2.0 or higher

FF2 0 BSSC 04 0 Hold

BSSC-040 : Not Used

FF2 0 BSSC 04 1 Hold

BSSC-041 : Not Used

FF2 0 BSSC 04 2 Hold

BSSC-042 : Not Used

FF2 0 BSSC 04 3 Hold

BSSC-043 : Not Used

FF2 0 BSSC 04 4 Hold

BSSC-044 : Not Used

FF2 0 BSSC 04 5 Hold

BSSC-045 : Not Used

Tenant Group Assignment

BSSC-05 :0
Tenant Group

(all CPCs) - Version 2.0 or higher

Assign the AC-15 private line to a Tenant Group, which will apply when the private line originates an outbound call (such as DISA).

FF2 0 BSSC 05 Hold (0-72) Hold

BSSC: AC-15 Private Line Position -
B=CCU 1-6
SS=Slot 01-12
C=Circuit 1-4

Tenant Group No. 1-72

default: 0 (no Tenant Group assigned)

NOTE: Available range of Tenant Group Nos. is determined by the CPC installed, and the number of CCUs specified in programming (see **0: System Configuration**).

CPC INSTALLED		NO. OF CCUS SPECIFIED IN PROGRAMMING					
(shaded cells not available with this CPC)	CPC-96:	1	2	3	4	5	6
	CPC-288:	1	2	3	4	5	6
	CPC-576:	1	2	3	4	5	6
Tenant Group No. range:		12	24	36	48	60	72

Notes:

Related Programming:

MOH Source for Private Lines (pg. 1-111) **FF1 0 13 (0001-0072) Hold (0-3) Hold**

TRS Class Assignment (Day)

BSSC-060 :1
Day1/2 TRS CLS

(all CPCs) - Version 2.0 or higher

Assign a Toll Restriction Service (TRS/Call Barring) class to the AC-15 private line, applicable during Day1 and Day2 modes when the private line is the originator of an outbound call (such as DISA).

FF2 0 BSSC 06 0 Hold (1-50) Hold

BSSC: AC-15 Private Line Position -
B=CCU 1-6
SS=Slot 01-12
C=Circuit 1-4

TRS Class No. 1-50 for Day Mode
default: 1 (for USA, U.K.)
9 (for all others)

FF2
Exchange

Notes:

Related Programming:

FF6 1: TRS Class Definitions (pg. 6-16)

TRS Class Assignment (Night)

BSSC-061 :1
Night TRS CLS

(all CPCs) - Version 2.0 or higher

Assign a Toll Restriction Service (TRS/Call Barring) class to the AC-15 private line, applicable during Night mode when the private line is the originator of an outbound call (such as DISA).

FF2 0 BSSC 06 1 Hold (1-50) Hold

BSSC: AC-15 Private Line Position -
B=CCU 1-6
SS=Slot 01-12
C=Circuit 1-4

TRS Class No. 1-50 for Night Mode
default: 1 (for USA, U.K.)
9 (for all others)

Notes:

Related Programming:

FF6 1: TRS Class Definitions (pg. 6-16)

Exchange Line COS Assignment

BSSC-07 :1
Trunk COS

(all CPCs) - Version 2.0 or higher

Assign an Exchange Line Class of Service (COS) to the AC-15 private line.

FF2 0 BSSC 07 Hold (1-16) Hold

BSSC: AC-15 Private Line Position -
B=CCU 1-6
SS=Slot 01-12
C=Circuit 1-4

Exchange Line COS No. 1-16

default: 1

FF2
Exchange

Notes:

This **Exchange Line COS Assignment** controls the ring tone for incoming calls on this AC-15 private line: intercom ring tone (2 short beeps followed by 3 seconds of silence), or a specific ring pattern. The Exchange Line COS also controls various private-line network settings. See **FF1 0 04: Exchange Line COS Definitions (pg. 1-88)**.

Related Programming:

Exchange Line COS: Incoming Ring Tone Source (pg. 1-88) FF1 0 04 (00-15) 01 Hold (0 or 1) Hold
Exchange Line COS: Dial Tone to Private Line (pg. 1-89) FF1 0 04 (00-15) 02 Hold (0 or 1) Hold
Exchange Line COS: Fast-Busy Tone to Private Line (pg. 1-90) FF1 0 04 (00-15) 03 Hold (0 or 1) Hold
Exchange Line COS: Paging on DISA/Private Line Call (pg. 1-92) FF1 0 04 (00-15) 05 Hold (0 or 1) Hold
Ring Pattern (pg. 2-43) FF2 0 BSSC 01 12 Hold (0-12) Hold

Exchange Line Digital Pad Class Assignment

BSSC-08 :8
Trunk DPAD CLS

(all CPCs) - Version 2.0 or higher

Assign a Digital Pad Class number to the AC-15 private line.

FF2 0 BSSC 08 Hold (1-16) Hold

BSSC: AC-15 Private Line Position -
B=CCU 1-6
SS=Slot 01-12
C=Circuit 1-4

Exchange Line Digital Pad Class 1-16

default: 8

Notes:

Based on this setting, you can assign automatic volume adjustments for different connection types to this private line (see FF1 8 02).

Related Programming:

Digital Pad Settings for Exchange Line Pad Class (pg. 1-195) FF1 8 02 (0001-0480) Hold (0-31) Hold

FF2 1: ISDN Exchange Lines

D-Channel Position

BSSC-000 : Shared DchPOS

(all CPCs) - Version 2.0 or higher

(not applicable to U.K.) If using a common (shared) D-Channel, identify the PRI ISDN exchange line(s) it will control on the PRI card (24B). Applicable only if the system is using multiple PRI or BRI cards.

FF2
Exchange

FF2 1 BSS1 00 0 Hold (BSSC) Hold

BSS1: ISDN-PRI Exchange Line Position -
B=CCU 1-6
SS=Slot 01-12
1=PRI Circuit 1

Common D-Channel Position:
B=CCU no. 1-6
SS=Slot no. 01-12
C=Circuit no. 1-4 (BRI) or 1 (PRI)

default: [no assignment]

Notes:

Skip this address if using only the 30B+D card for PRI, or only one 2B+D card for BRI.

Related Programming:

Synchronised Clock (pg. 1-116) **FF1 0 18 (0001-0003) Hold (BSS/C) Hold**

D-Channel Interface ID Code

BSSC-001 : Dch I/F ID Code

(all CPCs) - Version 2.0 or higher

(not applicable to U.K.) If using a common D-channel, identify the Interface ID code (supplied by the public exchange) that will be used for common D-channel control.

FF2 1 BSS1 00 1 Hold (1-127) Hold

BSS1: ISDN-PRI Exchange Line Position -
B=CCU 1-6
SS=Slot 01-12
1=PRI Circuit 1

Interface ID Code (max. 3 digits)

default: [no assignment]

Notes:

The **D-Channel Position** (see above address) must be entered before the **D-Channel Interface ID Code** can be set. If the **D-Channel Position** is cleared, the **Interface ID Code** will be automatically cleared as well.

Related Programming:

Exchange-Line Number Assignment (1st Channel)

BSSC-01 : Trunk Number

(all CPCs) - Version 2.0 or higher

Assign an exchange-line number to the first ISDN channel only. The system will automatically assign sequential numbers to the remaining channels on the card.

FF2 1 BSSC 01 Hold (0-576) Hold

BSSC: ISDN Exchange Line Position -
B=CCU 1-6
SS=Slot 01-12
C=Circuit 1-4 (BRI) or 1 (PRI)

Exchange Line No. (max. 3 digits)

default: (none)

Notes:

2B+D (BRI) card: Supports up to 2 exchange lines.
30B+D (PRI) card: Supports up to 30 exchange lines (minimum 8).
31B (PRI) card: Supports up to 31 exchange lines (minimum 8). *NOTE:* Channel #31 is reserved for D-channel (as B-channel) use.

Related Programming:

Exchange Line Numbering (pg. 1-22) FF1 0 02 0001 Hold (0 or 1) Hold

Exchange Line Connection Type (Point-to-Point/ Multi-Point)

BSSC-0200:0
Connection Type

(all CPCs) - Version 2.0 or higher

Set the ISDN exchange line for Point-to-Point connection (for either BRI or PRI), or Point-to-Multi-Point (BRI only).

FF2 1 BSSC 02 00 Hold (0 or 1) Hold

BSSC: ISDN Exchange Line Position -
B=CCU 1-6
SS=Slot 01-12
C=Circuit 1-4 (BRI) or 1 (PRI)

0=Point-to-Point (default)
1=Point-to-Multi-Point (BRI only)

FF2
Exchange

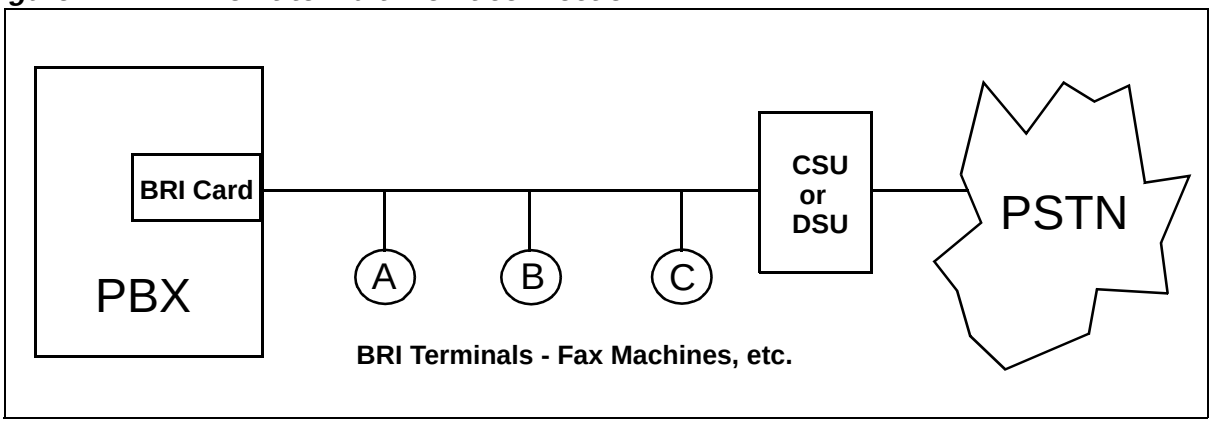
Notes:

If **D-Channel Position (pg. 2-60)** is specified, the above address must be set to **"0=Point-to-Point" (default).**

Related Programming:

D-Channel Position (pg. 2-60) **FF2 1 BSS1 00 0 Hold (BSSC) Hold**

Figure 2-1: BRI Point-to-Multi-Point connection



Ring Frequency

BSSC-0201:1
Ring Frequency

(all CPCs) - Version 2.0 or higher

(for digital phones only) Set the ring frequency for incoming calls on this ISDN exchange line.

FF2 1 BSSC 02 01 Hold (0-6) Hold

BSSC: ISDN Exchange Line Position -
B=CCU 1-6
SS=Slot 01-12
C=Circuit 1-4 (BRI) or 1 (PRI)

0=No Ring
1=400/562 Hz (default)
2=1000/1340 Hz
3=400 Hz
4=800/1040 Hz
5=1040/1320 Hz
6=660/1320 Hz

FF2
Exchange

Notes:

Related Programming:

Ring Pattern

BSSC-0202:1
Ring Cycle PTN

(all CPCs) - Version 2.0 or higher

Set the ring pattern for incoming calls on this ISDN exchange line.

FF2 1 BSSC 02 02 Hold (0-12) Hold

BSSC: ISDN Exchange Line Position -
B=CCU 1-6
SS=Slot 01-12
C=Circuit 1-4 (BRI) or 1 (PRI)

FF2
Exchange

Setting Values for U.K.		Setting Values for USA and Hong Kong	
0	Synchronise with public exchange	**0**	(use Pattern 1 below)
1	**1on/2off (in seconds) (default)**	**1**	**1on/3off (in seconds) (default)**
2	2on/1off	**2**	2on/2off
3	1on/1off	**3**	3on/1off
4	.5on/.5off	**4**	1on/1off
5	.25on/2.75off	**5**	.5on/.5off
6	.25on/.25off/.25on/2.25off	**6**	.5on/3.5off
7	.25on/.25off/.25on/.25off/.25on/1.75off	**7**	.5on/.5off/.5on/2.5off
8	.75on/.25off/.75on/1.25off	**8**	.25on/.25off/.25on/3.25off
9	1on/.25off/.25on/1.5off	**9**	1on/.25off/.25on/2.5off
10	1on/.25off/.25on/.25off/.25on/1off	**10**	1on/.25off/.25on/.25off/.25on/2off
11	1.375on/.125off/.125on/.125off/.125on/.125off	**11**	1.375on/.125off/.125on/.125off/.125on/.125off
12	Continuous tone	**12**	Continuous tone

Notes:

U.K. Only: If this address is set to "0=Synchronise with public exchange," and the ISDN exchange line's **Ring Type** is DDI or DISA, the system will automatically use setting 1's ring pattern.

If **Exchange Line COS: Incoming Ring Tone Source (pg. 1-88)** is set to **0=Use exchange line's Ring Pattern (default)**, the above Ring Pattern will apply to all incoming call types: multiple incoming, DL, DDI, DISA. However, if the **Ring Tone Source** is set to 1=Use intercom ring tone, the above Ring Pattern will apply only to multiple-incoming calls.

Related Programming:

Exchange Line COS: Incoming Ring Tone Source (pg. 1-88) FF1 0 04 (00-15) 01 Hold (0 or 1) Hold
Exchange Line COS Assignment (pg. 2-83) FF2 1 BSSC 08 Hold (1-16) Hold
Ring Type/Destination for ISDN exchange lines (pg. 2-75) FF2 1 BSSC 04 (0 thru 5) Hold...
FF4 0: FF-Keys on Digital Keyphones, SLTs, and EM/24 Units (pg. 4-7)
FF4 1: FF-Keys on DSS/72 Consoles (pg. 4-14)

DTMF On/Off Pattern During Talk

BSSC-0203:1
DTMF PTN-Talk

(all CPCs) - Version 2.0 or higher

Set the DTMF signalling pattern that will apply after the extension user connects to the called party during a public-exchange call on the ISDN exchange line.

FF2 1 BSSC 02 03 Hold (0-2) Hold

BSSC: ISDN Exchange Line Position -
B=CCU 1-6
SS=Slot 01-12
C=Circuit 1-4 (BRI) or 1 (PRI)

0=DTMF Pattern #1
1=DTMF Pattern #2 (default)
2=DTMF Pattern #3

FF2
Exchange

Notes:

This address applies to the entry of account codes, selection of voice menu options, etc. during a call.

Up to 3 different DTMF patterns can be defined in **FF1 1 01 (0016-0019).**

(all CPCs - Version 2.5 and higher) During a 3-Party Conference, if an extension dials digit(s), DTMF signals will be sent to the other party (mainly for Voice Mail connection).

Related Programming:

DTMF ON: Pattern #1 (pg. 1-136) FF1 1 01 0016 Hold (1-255) Hold
DTMF OFF: Pattern #1 (pg. 1-137) FF1 1 01 0017 Hold (1-255) Hold
DTMF ON/OFF: Pattern #2 (pg. 1-138) FF1 1 01 0018 Hold (1-255) Hold
DTMF ON/OFF: Pattern #3 (pg. 1-139) FF1 1 01 0019 Hold (1-255) Hold

Not Used

(all CPCs) - Version 2.0 or higher

FF2 1 BSSC 02 04 Hold

BSSC-0204:
Not Used

FF2 1 BSSC 02 05 Hold

BSSC-0205:
Not Used

Exchange Line Connection Type (Public Exchange or PBX)

BSSC-0300:0
TRK Type CO/PBX

(all CPCs) - Version 2.0 or higher

Set whether the ISDN exchange line connects directly to the public exchange or is behind a PBX/Centrex.

FF2 1 BSSC 03 00 Hold (0 or 1) Hold

BSSC: ISDN Exchange Line Position -
B=CCU 1-6
SS=Slot 01-12
C=Circuit 1-4 (BRI) or 1 (PRI)

0=Public Exchange (default)
1=PBX

FF2
Exchange

Notes:

Related Programming:

PBX Exchange Line Access Codes (pg. 1-106) **FF1 0 08 (0001-0006) Hold FL/R (0-9999) Hold**

Auto-Repeat Dial

BSSC-0301:1
Auto Repeat Dial

(all CPCs) - Version 2.0 or higher

Enable/Disable Auto-Repeat Dial on the ISDN exchange line.

FF2 1 BSSC 03 01 Hold (0 or 1) Hold

BSSC: ISDN Exchange Line Position -
B=CCU 1-6
SS=Slot 01-12
C=Circuit 1-4 (BRI) or 1 (PRI)

0=Do not allow Auto-Repeat Dial.
1=Allow Auto-Repeat Dial. (default)

Notes:

Auto-Repeat Dial: Dial an outside call. If busy tone is received, press the FL/R key to have the system automatically redial the number at set intervals (max. 15 times) until the called party answers or the user hangs up.

Related Programming:

Flash Timer for Auto-Repeat Dial (pg. 1-129) **FF1 1 01 0003 Hold (1-255) Hold**

Call Logging for Outbound Calls

BSSC-0302:1
SMDR Output/Out

(all CPCs) - Version 2.0 or higher

Set whether ***outbound*** calls on the ISDN exchange line will be included in Call Logging records.

FF2 1 BSSC 03 02 Hold (0 or 1) Hold

BSSC: ISDN Exchange Line Position -
B=CCU 1-6
SS=Slot 01-12
C=Circuit 1-4 (BRI) or 1 (PRI)

0=Do not include in Call Logging.
1=Include in Call Logging. (default)

Notes:

Related Programming:

Call Logging Data to Serial Port (pg. 1-102) **FF1 0 06 0001 Hold (0-2) Hold**
Call Logging Output Format (pg. 1-107) **FF1 0 09 0001 Hold (0-2) Hold**

Call Logging for Inbound Calls

BSSC-0303:0
SMDR Output/In

(all CPCs) - Version 2.0 or higher

Set whether ***incoming*** calls on the ISDN exchange line will be included in Call Logging records.

FF2 1 BSSC 03 03 Hold (0 or 1) Hold

BSSC: ISDN Exchange Line Position -
B=CCU 1-6
SS=Slot 01-12
C=Circuit 1-4 (BRI) or 1 (PRI)

0=Do not include in Call Logging. (default)
1=Include in Call Logging.

Notes:

Related Programming:

Call Logging Data to Serial Port (pg. 1-102) **FF1 0 06 0001 Hold (0-2) Hold**
Call Logging Output Format (pg. 1-107) **FF1 0 09 0001 Hold (0-2) Hold**

Flash Key Operation

BSSC-0304:0
Flash Control

(all CPCs) - Version 2.0 or higher

Set what happens when a digital phone user presses either the FL/R key, PROG key, or the feature codes “Recall/Flash” or “SLT Flash Send” during a call on this exchange line.

FF2 1 BSSC 03 04 Hold (0 or 1) Hold

BSSC: ISDN Exchange Line Position -
B=CCU 1-6
SS=Slot 01-12
C=Circuit 1-4 (BRI) or 1 (PRI)

0=Current talk path is disconnected but keeps the exchange line, then user hears simulated dial tone. (default)

1=Exchange Line is released, then user hears internal dial tone.

FF2
Exchange

Notes:

The sending of the flash signal can also be enabled/disabled on individual extensions (see **Flash Signal Control** on pg. 3-19).

❒ If the flash signal is disabled on the exchange line but enabled on the extension, or vice versa, a flash signal ***will be sent*** when the user presses FL/R (or PROG, “Recall/Flash”, or “SLT Flash Send”).

Related Programming:

Flash Signal Control (pg. 3-19) FF3 0 BSSC 04 21 Hold (0 or 1) Hold
Dial Plan A: Flexible Feature Codes at Dial Tone (pg. 1-168) FF1 2 02 (0001-0056) Hold (max. 4-digit Code) Hold
Dial Plan B: Flexible Feature Codes at Dial Tone (pg. 1-170) FF1 2 03 (0001-0056) Hold (max. 4-digit Code) Hold

Long Talk Alarm

BSSC-0305:0
Long-Talk Alarm

(all CPCs) - Version 2.0 or higher

Enable/Disable the alarm tone heard by an extension user during an outbound call on this exchange line, if the call lasts longer than the **Long Talk Alarm Timer.**

FF2 1 BSSC 03 05 Hold (0 or 1) Hold

BSSC: ISDN Exchange Line Position -
B=CCU 1-6
SS=Slot 01-12
C=Circuit 1-4 (BRI) or 1 (PRI)

0=Disable Long Talk Alarm. (default)
1=Enable Long Talk Alarm.

Notes:

By default, individual extensions are enabled for the Long Talk Alarm (via Extension COS setting).

Related Programming:

Long Talk Alarm #1 Timer (pg. 1-147) FF1 1 02 0010 Hold (0-255) Hold
Long Talk Alarm #2 Timer (pg. 1-148) FF1 1 02 0011 Hold (0-255) Hold
Extension COS: Long Talk Alarm (pg. 1-76) FF1 0 03 (00-15) 40 Hold (0 or 1) Hold

Alarm Ringing

BSSC-0306:0
Alarm Ringing

(all CPCs) - Version 2.0 or higher

Enable/Disable Alarm Ringing for incoming calls on this exchange line that ring unanswered for longer than the **Slide Ring/Alarm Ring Timer.**

FF2 1 BSSC 03 06 Hold (0 or 1) Hold

BSSC: ISDN Exchange Line Position -
B=CCU 1-6
SS=Slot 01-12
C=Circuit 1-4 (BRI) or 1 (PRI)

0=Disable Alarm Ringing. (default)
1=Enable Alarm Ringing.

FF2
Exchange

Notes:

Alarm Ringing: Ringing frequency/interval changes for an incoming call that rings unanswered for longer than the **Slide Ring/Alarm Ring Timer.**

Alarm Ringing will not work while Slide Ringing or Delayed Ringing is occurring.

Related Programming:

Ring Alarm Frequency (pg. 1-119) FF1 0 21 0001 Hold (0-6) Hold
Ring Alarm Pattern (pg. 1-120) FF1 0 21 0002 Hold (0-12) Hold
Slide Ring/Alarm Ring Timer (Day1) (pg. 1-145) FF1 1 02 0007 Hold (0-255) Hold
Slide Ring/Alarm Ring Timer (Day2) (pg. 1-146) FF1 1 02 0008 Hold (0-255) Hold
Slide Ring/Alarm Ring Timer (Night) (pg. 1-146) FF1 1 02 0009 Hold (0-255) Hold

Slide Ringing

BSSC-0307:0
Slide Ringing

(all CPCs) - Version 2.0 or higher

Enable/Disable Slide Ringing for incoming calls on this exchange line that ring unanswered for longer than the **Slide Ring/Alarm Ring Timer.**

FF2 1 BSSC 03 07 Hold (0 or 1) Hold

BSSC: ISDN Exchange Line Position -
B=CCU 1-6
SS=Slot 01-12
C=Circuit 1-4 (BRI) or 1 (PRI)

0=Disable Slide Ringing. (default)
1=Enable Slide Ringing.

Notes:

Slide Ringing: Applies to extensions that are Slide Ringing-enabled and have exchange lines (which are also Slide Ringing-enabled) assigned to FF-keys. An incoming call on the exchange line will ring at the assigned extension or hunt group first (see **Day1/2/Night Ring Assignments** in FF2). Then, after the **Slide Ring/Alarm Ring Timer** (in FF1) expires, the call will also begin ringing on the exchange line FF-keys (see **FF-Key Feature Assignment** in FF4).

Related Programming:

Slide Ring/Alarm Ring Timer (Day1) (pg. 1-145) FF1 1 02 0007 Hold (0-255) Hold
Slide Ring/Alarm Ring Timer (Day2) (pg. 1-146) FF1 1 02 0008 Hold (0-255) Hold
Slide Ring/Alarm Ring Timer (Night) (pg. 1-146) FF1 1 02 0009 Hold (0-255) Hold
Slide Ringing Receive (pg. 3-9) on individual extensions FF3 0 BSSC 04 02 Hold (0 or 1) Hold
Ring Type/Destination - Day1, Day2, Night (pg. 2-75) FF2 1 BSSC 04 (0-5) Hold (0-6 or 0-9999) Hold
FF-Key Feature Assignment (Digital Keyphones, SLTs, EM/24s) (pg. 4-7) FF4 0 BSSC 0 (01-32) Hold FL/R (Code) Hold

Indirect LCR

BSSC-0308:0
Indirect LCR

(all CPCs) - Version 2.0 or higher

(for U.K. only) Enable/Disable the Indirect Least Cost Routing (LCR) function on the ISDN exchange line.

FF2 1 BSSC 03 08 Hold (0 or 1) Hold

BSSC: ISDN Exchange Line Position -
B=CCU 1-6
SS=Slot 01-12
C=Circuit 1-4 (BRI) or 1 (PRI)

0=Disable Indirect LCR. (default)
1=Enable Indirect LCR.

Notes:

Indirect LCR: System will send a pre-assigned code (set in the ARS Dial Conversion Tables) when an extension seizes the exchange line to make an outgoing call. This feature is used in the U.K. for sending a system identification PIN number to the public exchange.

USA: Do not enable this address for MCO access code routing (eg., dialing "9" to get an outside line). Instead, use ARS tables (see FF6) so the system can distinguish intercom calls from outgoing calls.

Related Programming:

FF6 2 05: Digit Modify Table (pg. 6-40)

B-Channel Select

BSSC-0309:0
Bch Select

(all CPCs) - Version 2.0 or higher

Set the method used by the system to seize a B-channel for an outgoing call.

FF2 1 BSSC 03 09 Hold (0 or 1) Hold

BSSC: ISDN Exchange Line Position -
B=CCU 1-6
SS=Slot 01-12
C=Circuit 1-4 (BRI) or 1 (PRI)

0=System will select the highest-numbered channel. (default)

1=System will select the lowest-numbered channel.

Notes:

Set this address to the ***opposite*** of the public exchange's method, to prevent "glare" (when the same channel is simultaneously seized by the public exchange for an incoming call, and by the system for an outgoing call).

- ❒ Select **0 (system selects highest-numbered channel)** if the public exchange **cannot** change channels when "glare" occurs.
- ❒ Select **1 (system selects lowest-numbered channel)** if the public exchange **can** change channels when "glare" occurs.

Related Programming:

B-Channel Numbering (Layer 3)

BSSC-0310:1
Bch MAP

(all CPCs) - Version 2.0 or higher

Select the Layer 3 format of the messaging commands sent by the public exchange.

FF2 1 BSSC 03 10 Hold (0 or 1) Hold

BSSC: ISDN Exchange Line Position -
B=CCU 1-6
SS=Slot 01-12
C=Circuit 1-4 (BRI) or 1 (PRI)

0=Slot Mapping ***(default-USA, Hong Kong)***
1=Channel Numbering ***(default-U.K.)***

Notes:

In ISDN, Layers 1, 2 and 3 represent signalling levels over the D-channel. **Layer 1** is the basic hardware level that controls messages regarding electrical characteristics, such as speed, channel structure, etc. **Layer 2** is the "housekeeping" level, containing controls that make sure the messages

coincide, providing sequence and flow control, etc. **Layer 3** is the feature level with messages that establish, maintain, and terminate connections, as well as additional information for different applications, such as passing the identity of the calling party, passing terminal compatibility information, allowing the redirection of calls, etc.

Related Programming:

B-Channel Numbering (Layer 3) (pg. 3-32) (ISDN extensions) **FF3 1 BSSC 03 01 Hold (0 or 1) Hold**

Call ID Length

BSSC-0311:0
Call ID Length

(all CPCs) - Version 2.0 or higher

FF2 Exchange

Set the ID method by which the public exchange flags messages sent to the system to keep track of the same inbound or outbound call.

FF2 1 BSSC 03 11 Hold (0 or 1) Hold

BSSC: ISDN Exchange Line Position -
B=CCU 1-6
SS=Slot 01-12
C=Circuit 1-4 (BRI) or 1 (PRI)

0=1 byte/octet *(default-BRI)*
1=2 bytes/octets *(default-PRI)*

Notes:

"1 byte/octet" rotates from 1 to 127 IDs. "2 bytes/octets" rotates from 1 to 32,767 IDs.

Related Programming:

Calling Number Send

BSSC-0312:1
Calling # Send

(all CPCs) - Version 2.0 or higher

Set whether the system will send the "calling number" (originating phone number) to the public exchange when an outgoing call is placed on this exchange line.

FF2 1 BSSC 03 12 Hold (0 or 1) Hold

BSSC: ISDN Exchange Line Position -
B=CCU 1-6
SS=Slot 01-12
C=Circuit 1-4 (BRI) or 1 (PRI)

0=Do not send calling number to exchange line.
1=Send calling number to exchange line. (default)

Notes:

Related Programming:

Calling Number Area Code (pg. 2-83) **FF2 1 BSSC 09 0 Hold (up to 6 digits) Hold**
Calling Number Office Code (pg. 2-84) **FF2 1 BSSC 09 1 Hold (up to 6 digits) Hold**
Calling Number Subscriber Number (pg. 2-84) **FF2 1 BSSC 09 2 Hold (up to 4 digits) Hold**

Sub-Address Type

BSSC-0313:0
Sub Address Type

(all CPCs) - Version 2.0 or higher

Set the coding type used for sub-addressing on the ISDN terminal.

FF2 1 BSSC 03 13 Hold (0 or 1) Hold

BSSC: ISDN Exchange Line Position -
B=CCU 1-6
SS=Slot 01-12
C=Circuit 1-4 (BRI) or 1 (PRI)

0=IA5 coding (default)
1=BCD coding

Notes:

IA5 stands for “International Alphabet No. 5” coding. **BCD** stands for “Binary Coded Decimal” coding, used for the type of numbers.

Related Programming:

Calling Number Area Code (pg. 2-83) **FF2 1 BSSC 09 0 Hold (up to 6 digits) Hold**
Calling Number Office Code (pg. 2-84) **FF2 1 BSSC 09 1 Hold (up to 6 digits) Hold**
Calling Number Subscriber Number (pg. 2-84) **FF2 1 BSSC 09 2 Hold (up to 4 digits) Hold**

Not Used

(all CPCs) - Version 2.0 or higher

FF2	1	BSSC	03	14	Hold	BSSC-0314: Not Used
FF2	1	BSSC	03	15	Hold	BSSC-0315: Not Used
FF2	1	BSSC	03	16	Hold	BSSC-0316: Not Used
FF2	1	BSSC	03	17	Hold	BSSC-0317: Not Used
FF2	1	BSSC	03	18	Hold	BSSC-0318: Not Used
FF2	1	BSSC	03	19	Hold	BSSC-0319: Not Used
FF2	1	BSSC	03	20	Hold	BSSC-0320: Not Used
FF2	1	BSSC	03	21	Hold	BSSC-0321: Not Used
FF2	1	BSSC	03	22	Hold	BSSC-0322: Not Used

FF2
Exchange

Day1 Ring Type

BSSC-040 :0
Day1 Ring Type

(all CPCs) - Version 2.0 or higher

Set the ISDN exchange line's ringing type for incoming calls during Day1 mode.

FF2 1 BSSC 04 0 Hold (0-6) Hold

BSSC: ISDN Exchange Line Position -
B=CCU 1-6
SS=Slot 01-12
C=Circuit 1-4 (BRI) or 1 (PRI)

0=Multiple Incoming (default)
1=DDI or CLI
2=DISA
3=DL to Extension
4=DL to Hunt Group
5=DL to SSD
6=DL to Attendant Hunt Group

FF2
Exchange

Day1 Ring Destination

BSSC-041 :
D1 Destination

(all CPCs) - Version 2.0 or higher

Assign a destination extension, Hunt Group, SSD code, or Attendant Hunt Group for a DL (Direct Line) setting in the above address.

FF2 1 BSSC 04 1 Hold (0-9999) Hold

BSSC: ISDN Exchange Line Position -
B=CCU 1-6
SS=Slot 01-12
C=Circuit 1-4 (BRI) or 1 (PRI)

Destination Number:

(if "3=DL to Extension")	Ext.No., Virtual Ext.No., or Closed No.
(if "4=DL to Hunt Group")	Extension Hunt Group No. (1-72)
(if "5=DL to SSD")	SSD Code No.
(if "6=DL to Attendant")	Attendant Hunt Group Pilot No.

default: [no assignment]

Notes:

When the system receives the digits from the public exchange on the ISDN exchange line, it will handle the call as a DDI call.

Multiple Incoming: An incoming call on this exchange line can ring on multiple extensions that have a public-exchange or MCO FF-key line appearance for it (see **FF4**: **Exchange-Line FF-Key** addresses).

Ring destinations for **DDI/CLI** exchange lines are assigned in **FF1 4: DDI/CLI Tables (pg. 1-183)**.

DISA exchange lines do not require a ring destination assignment; the DISA caller will dial the desired extension after entering the phone system.

To set up Virtual Port Ringing: Choose "3=DL to Extension" and enter the Virtual Port Extension No. (*not* the port no.) in the above addresses. Extension Numbers are assigned to Virtual Ports in FF3 2 (001-576) 00 Hold (0-9999) Hold (pg. 3-40).

Related Programming:

DDI/CLI Dial Table ("A" Side) (pg. 1-184) FF1 4 02 (000-575) (1-6) Hold (0-9999 or 1-72) Hold
DDI/CLI Dial Table ("B" Side) (pg. 1-187) FF1 4 04 (000-575) (1-6) Hold (0-9999 or 1-72) Hold
DDI Dialling to ISDN "S" Point (pg. 1-189) FF1 4 05 (0001-0192) Hold (0-9999) Hold
Extension Number Assignment (pg. 3-4) (digital keyphones/SLTs) FF3 0 BSSC 02 Hold (0-9999) Hold
Extension Number Assignment (pg. 3-29) (S-point ISDN ext.) FF3 1 BSSC 01 Hold (0-9999) Hold
Extension Number Assignment (pg. 3-40) FF3 2 (001-576) 00 Hold (0-9999) Hold
FF-Key Feature Assignment (Digital Keyphones, SLTs, EM/24s) (pg. 4-7) FF4 0 BSSC 0 (01-32) Hold FL/R (Code) Hold
FF-Key Feature Assignment (DSS/72) (pg. 4-14) FF4 1 BSSC 0 (01-72) Hold FL/R (Code) Hold
Attendant HG: Pilot Number (pg. 5-3) FF5 0 01 Hold (0-9999) Hold
FF5 1: Extension Hunt Groups (pg. 5-13)
Closed Number Table: Digit String (pg. 6-44) FF6 2 07 (001-150) 0001 Hold (1-4 digits) Hold
SSD Numbers (pg. 8-46) FF8 1 02 Hold 0 Hold Hold (00/0-79/9) Hold FL/R (up to 24 char.) Hold

FF2
Exchange

Day2 Ring Type

BSSC-042 :0
Day2 Ring Type

(all CPCs) - Version 2.0 or higher

Set the ISDN exchange line's ringing type for incoming calls during Day2 mode.

FF2 1 BSSC 04 2 Hold (0-6) Hold

BSSC: ISDN Exchange Line Position -
B=CCU 1-6
SS=Slot 01-12
C=Circuit 1-4 (BRI) or 1 (PRI)

0=Multiple Incoming (default)
1=DDI or CLI
2=DISA
3=DL to Extension
4=DL to Hunt Group
5=DL to SSD
6=DL to Attendant Hunt Group

Day2 Ring Destination

BSSC-043 :
D2 Destination

(all CPCs) - Version 2.0 or higher

Assign a destination extension, Hunt Group, SSD code, or Attendant Hunt Group for a DL (Direct Line) setting in the above address.

FF2 1 BSSC 04 3 Hold (0-9999) Hold

BSSC: ISDN Exchange Line Position -
B=CCU 1-6
SS=Slot 01-12
C=Circuit 1-4 (BRI) or 1 (PRI)

Destination Number:
(if "3=DL to Extension") Ext.No., Virtual Ext.No., or Closed No.
(if "4=DL to Hunt Group") Extension Hunt Group No. (1-72)
(if "5=DL to SSD") SSD Code No.
(if "6=DL to Attendant") Attendant Hunt Group Pilot No.

default: [no assignment]

Notes: *(see* **"Day1 Ring Type/Destination" - pg. 2-75***)*

Related Programming: *(see* **"Day1 Ring Type/Destination" - pg. 2-75***)*

Night Ring Type

BSSC-044 :0
Night Ring Type

(all CPCs) - Version 2.0 or higher

Set the ISDN exchange line's ringing type for incoming calls during Night mode.

FF2 1 BSSC 04 4 Hold (0-6) Hold

BSSC: ISDN Exchange Line Position -
B=CCU 1-6
SS=Slot 01-12
C=Circuit 1-4 (BRI) or 1 (PRI)

0=Multiple Incoming (default)
1=DDI or CLI
2=DISA
3=DL to Extension
4=DL to Hunt Group
5=DL to SSD
6=DL to Attendant Hunt Group

Night Ring Destination

BSSC-045 :
N Destination

(all CPCs) - Version 2.0 or higher

Assign a destination extension, Hunt Group, SSD code, or Attendant Hunt Group for a DL (Direct Line) setting in the above address.

FF2 1 BSSC 04 5 Hold (0-9999) Hold

BSSC: ISDN Exchange Line Position -
B=CCU 1-6
SS=Slot 01-12
C=Circuit 1-4 (BRI) or 1 (PRI)

Destination Number:

(if "3=DL to Extension")	Ext.No., Virtual Ext.No., or Closed No.
(if "4=DL to Hunt Group")	Extension Hunt Group No. (1-72)
(if "5=DL to SSD")	SSD Code No.
(if "6=DL to Attendant")	Attendant Hunt Group Pilot No.

default: [no assignment]

Notes: *(see* **"Day1 Ring Type/Destination" - pg. 2-75***)*

Related Programming: *(see* **"Day1 Ring Type/Destination" - pg. 2-75***)*

Day1 Delayed Ring Type

BSSC-050 :0
Day1 D-Ring Type

(all CPCs) - Version 2.0 or higher

Set the ISDN exchange line's delayed-ringing type during Day1 mode.
NOTE: **Day1 Ring Type (pg. 2-75)** must be either "DL" or "Multiple Incoming" in order to set Day1 Delayed Ringing (DDI/CLI and DISA do not apply here).

FF2 1 BSSC 05 0 Hold (0-4) Hold

BSSC: ISDN Exchange Line Position -
B=CCU 1-6
SS=Slot 01-12
C=Circuit 1-4 (BRI) or 1 (PRI)

0=Disabled/no delayed ringing (default)
1=Delay-ring to Extension
2=Delay-ring to Hunt Group
3=Delay-ring to SSD
4=Delay-ring to Attendant Hunt Group

FF2 Exchange

Day1 Delayed Ring Destination

BSSC-051 :
D1 D-Destination

(all CPCs) - Version 2.0 or higher

Assign a destination extension, Hunt Group, SSD code, or Attendant Hunt Group, depending on the setting in the above address.

FF2 1 BSSC 05 1 Hold (0-9999) Hold

BSSC: ISDN Exchange Line Position -
B=CCU 1-6
SS=Slot 01-12
C=Circuit 1-4 (BRI) or 1 (PRI)

Destination Number:
(if "1=delay-ring to Extension") Ext.No., Virtual Ext.No., or Closed No.
(if "2=delay-ring to Hunt Group") Extension Hunt Group No. (1-72)
(if "3=delay-ring to SSD") SSD Code No.
(if "4=delay-ring to Attendant") Attendant Hunt Group Pilot No.

default: [no assignment]

Notes:

Delayed ringing for **DDI/CLI** exchange lines are assigned in **FF1 4: DDI/CLI Tables (pg. 1-183)**.

Related Programming:

Day1 Ring Type (pg. 2-75) FF2 1 BSSC 04 0 Hold (0-6) Hold
Extension Number Assignment (pg. 3-4) for digital keyphones/SLTs FF3 0 BSSC 02 Hold (0-9999) Hold
Extension Number Assignment (pg. 3-29) for S-point ISDN extensions FF3 1 BSSC 01 Hold (0-9999) Hold
Extension Number Assignment (pg. 3-40) FF3 2 (001-576) 00 Hold (0-9999) Hold
Attendant HG: Pilot Number (pg. 5-3) FF5 0 01 Hold (0-9999) Hold
FF5 1: Extension Hunt Groups (pg. 5-13)
Closed Number Table: Digit String (pg. 6-44) FF6 2 07 (001-150) 0001 Hold (1-4 digits) Hold
SSD Numbers (pg. 8-46) FF8 1 02 Hold 0 Hold Hold (00/0-79/9) Hold FL/R (up to 24 char.) Hold

CO Delayed Ring Timer ...

Day1 unanswered calls (pg. 1-142) FF1 1 02 0003 Hold (0-255) Hold
Day2 unanswered calls (pg. 1-142) FF1 1 02 0004 Hold (0-255) Hold
Night unanswered calls (pg. 1-143) FF1 1 02 0005 Hold (0-255) Hold
Busy (pg. 1-144) FF1 1 02 0006 Hold (0-255) Hold

Day2 Delayed Ring Type

BSSC-052 :0
Day2 D-Ring Type

(all CPCs) - Version 2.0 or higher

Set the ISDN exchange line's delayed-ringing type during Day2 mode.
NOTE: **Day2 Ring Type (pg. 2-76)** must be either "DL" or "Multiple Incoming" in order to set Day2 Delayed Ringing (DDI/CLI and DISA do not apply here).

FF2 1 BSSC 05 2 Hold (0-4) Hold

BSSC: ISDN Exchange Line Position -
B=CCU 1-6
SS=Slot 01-12
C=Circuit 1-4 (BRI) or 1 (PRI)

0=Disabled/no delayed ringing (default)
1=Delay-ring to Extension
2=Delay-ring to Hunt Group
3=Delay-ring to SSD
4=Delay-ring to Attendant Hunt Group

Day2 Delayed Ring Destination

BSSC-053 :
D2 D-Destination

(all CPCs) - Version 2.0 or higher

Assign a destination extension, Hunt Group, SSD code, or Attendant Hunt Group, depending on the setting in the above address.

FF2 1 BSSC 05 3 Hold (0-9999) Hold

BSSC: ISDN Exchange Line Position -
B=CCU 1-6
SS=Slot 01-12
C=Circuit 1-4 (BRI) or 1 (PRI)

Destination Number:
(if "1=delay-ring to Extension") Ext.No., Virtual Ext.No., or Closed No.
(if "2=delay-ring to Hunt Group") Extension Hunt Group No. (1-72)
(if "3=delay-ring to SSD") SSD Code No.
(if "4=delay-ring to Attendant") Attendant Hunt Group Pilot No.

default: [no assignment]

Notes: *(see* **"Day1 Delayed Ring Type/Destination" - pg. 2-78***)*

Related Programming: *(see* **"Day1 Delayed Ring Type/Destination" - pg. 2-78***)*

Night Delayed Ring Type

BSSC-054 :0
NGT D-Ring Type

(all CPCs) - Version 2.0 or higher

Set the ISDN exchange line's delayed-ringing type during Night mode.
NOTE: **Night Ring Type (pg. 2-77)** must be either "DL" or "Multiple Incoming" in order to set Night Delayed Ringing (DDI/CLI and DISA do not apply here).

FF2 1 BSSC 05 4 Hold (0-4) Hold

BSSC: ISDN Exchange Line Position -
B=CCU 1-6
SS=Slot 01-12
C=Circuit 1-4 (BRI) or 1 (PRI)

0=Disabled/no delayed ringing (default)
1=Delay-ring to Extension
2=Delay-ring to Hunt Group
3=Delay-ring to SSD
4=Delay-ring to Attendant Hunt Group

FF2
Exchange

Night Delayed Ring Destination

BSSC-055 :
N D-Destination

(all CPCs) - Version 2.0 or higher

Assign a destination extension, Hunt Group, SSD code, or Attendant Hunt Group, depending on the setting in the above address.

FF2 1 BSSC 05 5 Hold (0-9999) Hold

BSSC: ISDN Exchange Line Position -
B=CCU 1-6
SS=Slot 01-12
C=Circuit 1-4 (BRI) or 1 (PRI)

Destination Number:
(if "1=delay-ring to Extension") Ext.No., Virtual Ext.No., or Closed No.
(if "2=delay-ring to Hunt Group") Extension Hunt Group No. (1-72)
(if "3=delay-ring to SSD") SSD Code No.
(if "4=delay-ring to Attendant") Attendant Hunt Group Pilot No.

default: [no assignment]

Notes: *(see* **"Day1 Delayed Ring Type/Destination" - pg. 2-78***)*

Related Programming: *(see* **"Day1 Delayed Ring Type/Destination" - pg. 2-78***)*

Tenant Group Assignment (B-Channel)

BSSC-060 :0
TRK#001 Tenant G

(all CPCs) - Version 2.0 or higher

Assign the B-channels of an ISDN exchange line to Tenant Groups, which will apply when the exchange line originates an outbound call (such as DISA).

FF2 1 BSSC 06 (00-23/30) Hold (0-72) Hold

BSSC: ISDN Exchange Line Position -
B=CCU 1-6
SS=Slot 01-12
C=Circuit 1-4 (BRI)
or 1 (PRI)

B-Channel:
00=B-Channel 1
01=B-Channel 2
02=B-Channel 3
....
23=B-Channel 24 *(USA, Hong Kong, Taiwan)*
or 30=B-Channel 31 *(U.K., Malaysia, Indonesia)*

Tenant Group No. 1-72
default: 0 (no Tenant Group assigned)

NOTE: B-Channel 24 (or 31) is available when common D-Channel is used.

NOTE: Available range of Tenant Group Nos. is determined by the CPC installed, and the number of CCUs specified in programming (see **0: System Configuration**).

CPC INSTALLED		NO. OF CCUS SPECIFIED IN PROGRAMMING					
(shaded cells not available with this CPC)	CPC-96:	1	2	3	4	5	6
	CPC-288:	1	2	3	4	5	6
	CPC-576:	1	2	3	4	5	6
Tenant Group No. range:		12	24	36	48	60	72

Notes:

Related Programming:

MOH Source for Exchange Lines (pg. 1-110) **FF1 0 12 (0001-0072) Hold (0-3) Hold**

TRS Class Assignment (Day)

BSSC-070 :1
Day1/2 TRS CLS

(all CPCs) - Version 2.0 or higher

Assign a Toll Restriction Service (TRS/Call Barring) class to the exchange line, applicable during Day1 and Day2 modes when the exchange line originates an outbound call (such as DISA).

FF2 1 BSSC 07 0 Hold (1-50) Hold

BSSC: ISDN Exchange Line Position -
B=CCU 1-6
SS=Slot 01-12
C=Circuit 1-4 (BRI) or 1 (PRI)

TRS Class 1-50 for Day Mode

default: 1 (for USA, U.K.)
9 (for all others)

FF2
Exchange

Notes:

Related Programming:

FF6 1: TRS Class Definitions (pg. 6-16)

TRS Class Assignment (Night)

BSSC-071 :1
Night TRS CLS

(all CPCs) - Version 2.0 or higher

Assign a Toll Restriction Service (TRS/Call Barring) class to the exchange line, applicable during Night mode when the exchange line originates an outbound call (such as DISA).

FF2 1 BSSC 07 1 Hold (1-50) Hold

BSSC: ISDN Exchange Line Position -
B=CCU 1-6
SS=Slot 01-12
C=Circuit 1-4 (BRI) or 1 (PRI)

TRS Class 1-50 for Night Mode

default: 1 (for USA, U.K.)
9 (for all others)

Notes:

Related Programming:

FF6 1: TRS Class Definitions (pg. 6-16)

Exchange Line COS Assignment

BSSC-08 :1
Trunk COS

(all CPCs) - Version 2.0 or higher

Assign an Exchange Line Class of Service (COS) to the ISDN exchange line.

FF2 1 BSSC 08 Hold (1-16) Hold

BSSC: ISDN Exchange Line Position -
B=CCU 1-6
SS=Slot 01-12
C=Circuit 1-4 (BRI) or 1 (PRI)

Exchange Line Class of Service 1-16
default: 1

Notes:

This **Exchange Line COS Assignment** controls the ring tone for incoming calls on this exchange line: public-exchange ring tone, intercom ring tone, or (for DL exchange lines) a specific ring pattern. The Exchange Line COS also controls various network settings. See **FF1 0 04: Exchange Line COS Definitions (pg. 1-88)**.

Related Programming:

Exchange Line COS: Incoming Ring Tone Source (pg. 1-88) FF1 0 04 (00-15) 01 Hold (0 or 1) Hold
Exchange Line COS: DDI/CLI Table (pg. 1-91) FF1 0 04 (00-15) 04 Hold (0 or 1) Hold
Exchange Line COS: Paging on DISA/Private Line Call (pg. 1-92) FF1 0 04 (00-15) 05 Hold (0 or 1) Hold
Exchange Line COS: DISA ID Verification (pg. 1-93) FF1 0 04 (00-15) 06 Hold (0 or 1) Hold
Ring Pattern (pg. 2-64) FF2 1 BSSC 02 02 Hold (0-12) Hold
Day1/Day2/Night Ring Type/Destination (pg. 2-75) FF2 1 BSSC 04 (0 thru 5) ...

Calling Number Area Code

BSSC-090 :
Area Code

(all CPCs) - Version 2.0 or higher

Assign a Calling Number Area Code to the ISDN exchange line.

FF2 1 BSSC 09 0 Hold (up to 6 digits) Hold

BSSC: ISDN Exchange Line Position -
B=CCU 1-6
SS=Slot 01-12
C=Circuit 1-4 (BRI) or 1 (PRI)

Calling Number Area Code
(max. 6 digits)

default: [no assignment]

Notes:

This **Calling Number Area Code** will be sent to the public exchange for outbound calls on the ISDN exchange line, along with other Calling Number digits (if assigned) in the following sequence:

Calling Number Area Code + Calling Number Office Code + Subscriber Number

Related Programming:

Calling Number Send (pg. 2-72) **FF2 1 BSSC 03 12 Hold (0 or 1) Hold**

Calling Number Office Code

BSSC-091 : Office Code

(all CPCs) - Version 2.0 or higher

Assign a Calling Number Office Code to the ISDN exchange line.

FF2 1 BSSC 09 1 Hold (up to 6 digits) Hold

BSSC: ISDN Exchange Line Position -
B=CCU 1-6
SS=Slot 01-12
C=Circuit 1-4 (BRI) or 1 (PRI)

Calling Number Office Code (max. 6 digits)

default: [no assignment]

FF2 Exchange

Notes:

This **Calling Number Office Code** will be sent to the public exchange for outbound calls on the ISDN exchange line, along with other Calling Number digits (if assigned) in the following sequence:

Calling Number Area Code + Calling Number Office Code + Subscriber Number

Related Programming:

Calling Number Send (pg. 2-72) **FF2 1 BSSC 03 12 Hold (0 or 1) Hold**

Calling Number Subscriber Number

BSSC-092 : Subscriber #

(all CPCs) - Version 2.0 or higher

Assign a Calling Number Subscriber Number to the ISDN exchange line.

FF2 1 BSSC 09 2 Hold (up to 4 digits) Hold

BSSC: ISDN Exchange Line Position -
B=CCU 1-6
SS=Slot 01-12
C=Circuit 1-4 (BRI) or 1 (PRI)

Subscriber Number (max. 4 digits)

default: [no assignment]

Notes:

This **Calling Number Subscriber Number** will be sent to the public exchange for outbound calls on the ISDN exchange line, along with other Calling Number digits (if assigned) in the following sequence:

Calling Number Area Code + Calling Number Office Code + Subscriber Number

Related Programming:

Calling Number Send (pg. 2-72) **FF2 1 BSSC 03 12 Hold (0 or 1) Hold**

Exchange Line Digital Pad Class Assignment

BSSC-10 :7
Trunk DPAD CLS

(all CPCs) - Version 2.0 or higher

Assign a Digital Pad Class to the ISDN exchange line.

FF2 1 BSSC 10 Hold (1-16) Hold

BSSC: ISDN Exchange Line Position -
B=CCU 1-6
SS=Slot 01-12
C=Circuit 1-4 (BRI) or 1 (PRI)

Exchange Line Digital Pad Class 1-16

default: 7

Notes:

Based on this setting, you can assign automatic volume adjustments for different connection types to this exchange line (see FF1 8 02).

Related Programming:

Digital Pad Settings for Exchange Line Pad Class (pg. 1-195) **FF1 8 02 (0001-0480) Hold (0-31) Hold**

FF2 2: T1-CO Lines (future use)

NOTE: *These FF2 2 addresses currently apply only to the USA.*

For T1 point-to-point private networks (connections between 2 or more switches), go to pg. 2-115 for ***T1-E&M Tie Lines****.*

If the carrier is providing DID/DNIS trunks with E&M signaling, use these ***T1-CO Trunks*** *settings - not the T1-E&M Tie Line settings.*

FF2
Exchange

Trunk Connection Type (CO/Network)

BSSCC-00 :1
TRK Type CO/NET

(all CPCs) - Version 1.0 or higher

Set whether the T1 channel is connected to the CO or to a private network.

FF2 2 BSSCC 00 Hold (0-2) Hold

BSSCC: T1 Channel Position
B=Cabinet no. 1-6
SS=Slot no. 01-12
CC=Channel no. 01-24

0=[no assignment]
1=CO (default)
2=Private Network

Notes:

The remaining addresses in this **T1 Trunks (CO)** section will apply if the T1 trunk is set to **1=CO (default)** in the above address. If 2=Private Network is selected instead (for trunk connections between 2 or more switches), go to pg. 2-115.

The **1=CO (default)** setting should be used for DID/DNIS trunks with E&M signaling, and the **T1 Trunks (CO)** addresses followed. (Set the **Ring Type** for these trunks as 1=DID or DNIS.)

Related Programming:

Ring Type/Destination for T1/CO trunks (pg. 2-106) FF2 2 BSSCC 04 (0 thru 5) ...

Trunk Number Assignment

BSSCC-01 : Trunk Number

(all CPCs) - Version 1.0 or higher

Assign a trunk number to each T1 channel.

(or BLK-DOWN)

FF2 2 BSSCC 01 Hold (0-576) Hold

BSSCC: T1 (CO) Channel Position
B=Cabinet no. 1-6
SS=Slot no. 01-12
CC=Channel no. 01-24

Trunk Number 1-576
(0 = no trunk)

default: [no assignment]

Notes:

Press the BLK-DOWN soft key instead of the last HOLD in the above address, to scroll to the next BSSC trunk position and assign it a trunk number (stay in same address).

Before removing a Trunk Card from a Free Slot, you must first clear the Trunk Numbers (if assigned) from all of the Card's BSSC ports in this address. See pg. 0-3 for more information.

The range of trunk numbers available for assignment depends on the CPC used:

with a CPC-96:	Trunk Nos. 1-96
with a CPC-288:	Trunk Nos. 1-288
with a CPC-576	Trunk Nos. 1-576

Related Programming:

Exchange Line Numbering (pg. 1-22) **FF1 0 02 0001 Hold (0 or 1) Hold**

Trunk Signal Type

BSSCC-0200:3 Signal

(all CPCs) - Version 1.0 or higher

Set the T1 channel's signaling type.

FF2 2 BSSCC 02 00 Hold (0-3) Hold

BSSCC: T1 (CO) Channel Position
B=Cabinet no. 1-6
SS=Slot no. 01-12
CC=Channel no. 01-24

0=Loop Start
1=Ground Start
2=DID Immediate Start
3=DID Wink Start (default)

Notes:

Related Programming:

Disconnect Detect (pg. 2-88) FF2 2 BSSCC 02 01 Hold (0 or 1) Hold
Dial Pulse Minimum Pause (pg. 2-88) FF2 2 BSSCC 02 02 Hold (0 or 1) Hold
Ground Start Ring Type (pg. 2-89) FF2 2 BSSCC 02 03 Hold (0 or 1) Hold
DID Ring Detect Timer (pg. 2-89) FF2 2 BSSCC 02 04 Hold (0 or 1) Hold
Disconnect Supervision Timer (pg. 2-94) FF2 2 BSSCC 02 12 Hold (0-3) Hold
Guard Timer for Outbound Calls (pg. 2-95) FF2 2 BSSCC 02 13 Hold (0-3) Hold
Inbound Ground Detect Timer (pg. 2-95) FF2 2 BSSCC 02 14 Hold (0-3) Hold

Disconnect Detect

BSSCC-0201:0
DISC Detect

(all CPCs) - Version 1.0 or higher

FF2 Exchange

Enable/Disable system detection of disconnect signal sent by the CO if the outside party disconnects first.

FF2 2 BSSCC 02 01 Hold (0 or 1) Hold

BSSCC: T1 (CO) Channel Position
B=Cabinet no. 1-6
SS=Slot no. 01-12
CC=Channel no. 01-24

0=No detection of disconnect signal from CO. (default)

1=System will detect disconnect signal.

Notes:

This setting is available only if the **Trunk Signal Type** is set for "0" (Loop Start) or "1" (Ground Start); it is not available for DID signaling types.

Related Programming:

Trunk Signal Type (pg. 2-87) FF2 2 BSSCC 02 00 Hold (0-3) Hold
Disconnect Supervision Timer (pg. 2-94) FF2 2 BSSCC 02 12 Hold (0-3) Hold

Dial Pulse Minimum Pause

BSSCC-0202:0
DP MIN.Pause

(all CPCs) - Version 1.0 or higher

Set the minimum pause time for dial-pulse signaling.

FF2 2 BSSCC 02 02 Hold (0 or 1) Hold

BSSCC: T1 (CO) Channel Position
B=Cabinet no. 1-6
SS=Slot no. 01-12
CC=Channel no. 01-24

0=625 ms (default-US) or 750 ms (default-UK)

1=1000 ms

Notes:

This setting is available only if the **Trunk Signal Type** is set for "0" (Loop Start) or "1" (Ground Start); it is not available for DID signaling types.

Related Programming:

Trunk Signal Type (pg. 2-87) **FF2 2 BSSCC 02 00 Hold (0-3) Hold**

Ground Start Ring Type

BSSCC-0203:0
GS Ring Type

(all CPCs) - Version 1.0 or higher

Set whether the CO supplies the real ringing signal or not. Applies to Ground-Start trunks, which typically need Tip-Ground for incoming signal.

FF2 2 BSSCC 02 03 Hold (0 or 1) Hold

BSSCC: T1 (CO) Channel Position
B=Cabinet no. 1-6
SS=Slot no. 01-12
CC=Channel no. 01-24

0=CO ringing signal. (default)
1=No CO ringing signal.

Notes:

This setting is available only if the **Trunk Signal Type** is set for "1" (Ground Start); it is not available for Loop Start or DID signaling types. (Ground Start trunks typically need Tip-side ground for incoming signal.)

Related Programming:

Trunk Signal Type (pg. 2-87) **FF2 2 BSSCC 02 00 Hold (0-3) Hold**

DID Ring Detect Timer

BSSCC-0204:0
DID RingDET Time

(all CPCs) - Version 1.0 or higher

Set the timer for detecting DID ringing, which will be used to specify the ringing.

FF2 2 BSSCC 02 04 Hold (0 or 1) Hold

BSSCC: T1 (CO) Channel Position
B=Cabinet no. 1-6
SS=Slot no. 01-12
CC=Channel no. 01-24

0=32 ms (default)
1=96 ms

Notes:

If CO is set to Immediate Start, system will wait this long before recognizing ring from CO.

This setting is available only if the **Trunk Signal Type** is set for "2" (DID Immediate Start) or "3" (DID Wink Start); it is not available for Loop Start or Ground Start signaling types.

Related Programming:

Trunk Signal Type (pg. 2-87) **FF2 2 BSSCC 02 00 Hold (0-3) Hold**

FF2
Exchange

Not Used

(all CPCs) - Version 1.0 or higher

FF2 2 BSSCC 02 05 Hold

BSSCC-0205:
Not Used

Frame Format

BSSCC-0206:0
Frame Format

(all CPCs) - Version 1.0 or higher

Set the framing format ordered from the CO (assign to Channel #1).

FF2 2 BSSCC 02 06 Hold (0 or 1) Hold

BSSCC: T1 (CO) Channel Position ("01" only)
B=Cabinet no. 1-6
SS=Slot no. 01-12
CC=Channel no. 01

0=SF (default)
1=ESF

Notes:

This setting is available only for Channel 01.

"SF" stands for SuperFrame (also known as D4), in which sampling frames are transmitted in groups of 12.

"ESF" stands for Extended SuperFrame, in which sampling frames are transmitted in groups of 24. ESF provides monitoring and maintenance capabilities that aren't available with SF.

Both "SF" and "ESF" use robbed-bit signaling, in which the 8th bit is robbed from every 6th frame to transmit signaling states such as On-Hook and Off-Hook.

Related Programming:

Synchronised Clock (pg. 1-116) **FF1 0 18 (0001-0003) Hold (BSS/C) Hold**

Line Coding

BSSCC-0207:0
Line Coding

(all CPCs) - Version 1.0 or higher

Set the clear-channel format ordered from the CO (assign to Channel #1).

FF2 2 BSSCC 02 07 Hold (0 or 1) Hold

BSSCC: T1 (CO) Channel Position ("01" only)
B=Cabinet no. 1-6
SS=Slot no. 01-12
CC=Channel no. 01

0=AMI (default)
1=B8ZS

Notes:

This setting is available only for Channel 01.

"AMI" stands for Alternate Mark Inversion.

"B8ZS" stands for Binary 8-Zeros Suppression.

Related Programming:

Ring Frequency

BSSCC-0208:1
Ring Frequency

(all CPCs) - Version 1.0 or higher

Set the ring frequency for incoming calls on the T1 channel. Affects ringing pitch on digital phones.

FF2 2 BSSCC 02 08 Hold (0-6) Hold

BSSCC: T1 (CO) Channel Position
B=Cabinet no. 1-6
SS=Slot no. 01-12
CC=Channel no. 01-24

0=No Ring
1=400/562 Hz (default)
2=1000/1340 Hz
3=400 Hz
4=800/1040 Hz
5=1040/1320 Hz
6=660/1320 Hz

Notes:

Related Programming:

Ring Pattern

BSSCC-0209:1
Ring Cycle PTN

(all CPCs) - Version 1.0 or higher

Set the ring pattern for incoming calls on this trunk.

FF2 2 BSSCC 02 09 Hold (0-12) Hold

FF2
Exchange

BSSCC: T1 (CO) Channel Position
B=Cabinet no. 1-6
SS=Slot no. 01-12
CC=Channel no. 01-24

Setting Values for U.K.		Setting Values for U.S. and Hong Kong	
0	Synchronize with CO	**0**	(use Pattern 1 below)
1	1on/2off (default) (in seconds)	**1**	1on/3off (in seconds) (default)
2	2on/1off	**2**	2on/2off
3	1on/1off	**3**	3on/1off
4	.5on/.5off	**4**	1on/1off
5	.25on/2.75off	**5**	.5on/.5off
6	.25on/.25off/.25on/2.25off	**6**	.5on/3.5off
7	.25on/.25off/.25on/.25off/.25on/1.75off	**7**	.5on/.5off/.5on/2.5off
8	.75on/.25off/.75on/1.25off	**8**	.25on/.25off/.25on/3.25off
9	1on/.25off/.25on/1.5off	**9**	1on/.25off/.25on/2.5off
10	1on/.25off/.25on/.25off/.25on/1off	**10**	1on/.25off/.25on/.25off/.25on/2off
11	1.375on/.125off/.125on/.125off/.125on/.125off	**11**	1.375on/.125off/.125on/.125off/.125on/.125off
12	Continuous tone	**12**	Continuous tone

Notes:

If **Exchange Line COS: Incoming Ring Tone Source (pg. 1-88)** is set to "0=Use trunk's Ring Pattern (default)," the above Ring Pattern will apply to all incoming-call types: multiple incoming, DIL, DID, DISA. However, if the **Ring Tone Source** is set to "1=Use intercom ring tone," the above Ring Pattern will apply only to multiple-incoming calls.

Related Programming:

Exchange Line COS: Incoming Ring Tone Source (pg. 1-88) FF1 0 04 (00-15) 01 Hold (0 or 1) Hold
Trunk COS Assignment (pg. 2-113) FF2 2 BSSCC 08 Hold (1-16) Hold
Ring Type/Destination for T1/CO trunks (pg. 2-106) FF2 2 BSSCC 04 (0 thru 5) Hold...
FF4 0: FF-Keys on Digital Keyphones, SLTs, and EM/24 Units (pg. 4-7)
FF4 1: FF-Keys on DSS/72 Consoles (pg. 4-14)

DTMF On/Off Pattern During Talk

BSSCC-0210:1
DTMF PTN-Talk

(all CPCs) - Version 1.0 or higher

Set the DTMF signaling pattern that will apply after an extension user connects to the called party during a CO call on this T1 channel.

FF2 2 BSSCC 02 10 Hold (0-2) Hold

BSSCC: T1 (CO) Channel Position
B=Cabinet no. 1-6
SS=Slot no. 01-12
CC=Channel no. 01-24

0=DTMF Pattern #1
1=DTMF Pattern #2 (default)
2=DTMF Pattern #3

FF2
Exchange

Notes:

This address applies to the entry of account codes, selection of voice menu options, etc. during a call.

Up to 3 different DTMF patterns can be defined in **FF1 1 01 (0016-0019).**

(all CPCs - Version 1.3 and higher) During a 3-Party Conference, if an extension dials digit(s), DTMF signals will be sent to the other party (mainly for Voice Mail connection).

Related Programming:

DTMF ON: Pattern #1 (pg. 1-136) FF1 1 01 0016 Hold (1-255) Hold
DTMF OFF: Pattern #1 (pg. 1-137) FF1 1 01 0017 Hold (1-255) Hold
DTMF ON/OFF: Pattern #2 (pg. 1-138) FF1 1 01 0018 Hold (1-255) Hold
DTMF ON/OFF: Pattern #3 (pg. 1-139) FF1 1 01 0019 Hold (1-255) Hold

DTMF On/Off Pattern for Outgoing Dialing

BSSCC-0211:0
DTMF PTN-Dial

(all CPCs) - Version 1.0 or higher

Set the DTMF signaling pattern that will apply to the dialing of outbound phone numbers (DTMF sent to CO) on this T1 channel.

FF2 2 BSSCC 02 11 Hold (0-2) Hold

BSSCC: T1 (CO) Channel Position
B=Cabinet no. 1-6
SS=Slot no. 01-12
CC=Channel no. 01-24

0=DTMF Pattern #1 (default)
1=DTMF Pattern #2
2=DTMF Pattern #3

Notes:

Up to 3 different DTMF patterns can be defined in **FF1 1 01 (0016-0019).**

Related Programming:

DTMF ON: Pattern #1 (pg. 1-136) FF1 1 01 0016 Hold (1-255) Hold
DTMF OFF: Pattern #1 (pg. 1-137) FF1 1 01 0017 Hold (1-255) Hold
DTMF ON/OFF: Pattern #2 (pg. 1-138) FF1 1 01 0018 Hold (1-255) Hold
DTMF ON/OFF: Pattern #3 (pg. 1-139) FF1 1 01 0019 Hold (1-255) Hold
DTMF/Dial Pulse Dialing (pg. 2-96) FF2 2 BSSCC 03 00 Hold (0 or 1) Hold

Disconnect Supervision Timer

BSSCC-0212:0
Disconnect Timer

FF2
Exchange

(all CPCs) - Version 1.0 or higher

Set how long the system will wait after detecting a drop in voltage from the CO, before recognizing it as a valid disconnect signal.

FF2 2 BSSCC 02 12 Hold (0-3) Hold

BSSCC: T1 (CO) Channel Position
B=Cabinet no. 1-6
SS=Slot no. 01-12
CC=Channel no. 01-24

if Trunk Signaling type is...

Loop Start / Ground Start:	DID:
0=281 ms (default)	**0=96 ms (default)**
1=531 ms	1=144 ms
2=781 ms	2=240 ms
3=1032 ms (1.032 seconds)	3=1500 ms (1.500 seconds)

Notes:

Related Programming:

Trunk Signal Type (pg. 2-87) FF2 2 BSSCC 02 00 Hold (0-3) Hold
Disconnect Detect (pg. 2-88) FF2 2 BSSCC 02 01 Hold (0 or 1) Hold

Guard Timer for Outbound Calls

BSSCC-0213:3
Guard Timer

(all CPCs) - Version 1.0 or higher

Set how long the system guards the T1 channel after a call is disconnected. The purpose of guarding the trunk is to prevent "glare" (collision between an incoming and outgoing call).

FF2 2 BSSCC 02 13 Hold (0-3) Hold

BSSCC: T1 (CO) Channel Position
B=Cabinet no. 1-6
SS=Slot no. 01-12
CC=Channel no. 01-24

0=500 ms (.5 seconds)
1=1000 ms (1 second)
2=1500 ms (1.5 seconds)
3=2000 ms (2 seconds) (default)

FF2
Exchange

Notes:

While the T1 channel is guarded, it cannot be used for another call until this **Guard Timer** has expired.

This setting is available only if the **Trunk Signal Type** is set for "0" (Loop Start) or "1" (Ground Start); it is not available for DID signaling types.

Related Programming:

Trunk Signal Type (pg. 2-87) **FF2 2 BSSCC 02 00 Hold (0-3) Hold**

Inbound Ground Detect Timer

BSSCC-0214:0
In-Ground Timer

(all CPCs) - Version 1.0 or higher

Set how long a CO Tip-ground signal must be present on a Ground Start T1 channel, before the system recognizes it as a valid incoming call.

FF2 2 BSSCC 02 14 Hold (0-3) Hold

BSSCC: T1 (CO) Channel Position
B=Cabinet no. 1-6
SS=Slot no. 01-12
CC=Channel no. 01-24

0=1 second (default)
1=2 seconds
2=4 seconds
3=8 seconds

Notes:

If this **Inbound Ground Detect Timer** is set too short, the system may generate false ringing when Tip-ground is not removed quickly enough at the end of the call.

Related Programming:

Trunk Signal Type (pg. 2-87) **FF2 2 BSSCC 02 00 Hold (0-3) Hold**

Not Used

(all CPCs) - Version 1.0 or higher

FF2 2 BSSCC 02 15 Hold

BSSCC-0215:
Not Used

DTMF/Dial Pulse Dialing

BSSCC-0300:1
Dial Type DP/PB

FF2
Exchange

(all CPCs) - Version 1.0 or higher

Set the T1 channel's signaling type for outbound and inbound dialing.

FF2 2 BSSCC 03 00 Hold (0 or 1) Hold

BSSCC: T1 (CO) Channel Position
B=Cabinet no. 1-6
SS=Slot no. 01-12
CC=Channel no. 01-24

0=Dial-pulse, at 10 pps
1=DTMF (default)

Notes:

Related Programming:

Flash Pattern

BSSCC-0301:0
Flash Length

(all CPCs) - Version 1.0 or higher

Set the signal pattern used for flash signals sent to the CO on the T1 channel. (see **System Timers** to define Flash Patterns #1 and #2)

FF2 2 BSSCC 03 01 Hold (0 or 1) Hold

BSSCC: T1 (CO) Channel Position
B=Cabinet no. 1-6
SS=Slot no. 01-12
CC=Channel no. 01-24

0=Flash Pattern #1 (default)
1=Flash Pattern #2

Notes:

Two different Flash Patterns can be defined in **Flash Timers 1 and 2,** FF1 1 01 (0001-0002).

Related Programming:

Flash Timer 1 for Exchange Line (pg. 1-128) **FF1 1 01 0001 Hold (1-255) Hold**
Flash Timer 2 for Exchange Line (pg. 1-129) **FF1 1 01 0002 Hold (1-255) Hold**

Dial Tone Detection

BSSCC-0302:1
DT Detect

(all CPCs) - Version 1.0 or higher

Set whether the phone system will check for CO dial tone before sending dialed digits on this trunk.

FF2 2 BSSCC 03 02 Hold (0 or 1) Hold

BSSCC: T1 (CO) Channel Position
B=Cabinet no. 1-6
SS=Slot no. 01-12
CC=Channel no. 01-24

0=No check (use precoded delay timer).
1=Check (send digits after dial tone is detected). (default)

Notes:

Related Programming:

Trunk Connection Type (CO/PBX)

BSSCC-0303:0
TRK Type CO/PBX

(all CPCs) - Version 1.0 or higher

Set whether the T1 channel connects directly to the CO or is behind a PBX/Centrex.

FF2 2 BSSCC 03 03 Hold (0 or 1) Hold

BSSCC: T1 (CO) Channel Position
B=Cabinet no. 1-6
SS=Slot no. 01-12
CC=Channel no. 01-24

0=CO trunk (default)
1=PBX trunk

Notes:

Related Programming:

PBX Exchange Line Access Codes (pg. 1-106) **FF1 0 08 (0001-0006) Hold FL/R (0-9999) Hold**

Auto-Repeat Dial

BSSCC-0304:1
Auto Repeat Dial

(all CPCs) - Version 1.0 or higher

Enable/Disable Auto-Repeat Dialing on the T1 channel.

FF2 2 BSSCC 03 04 Hold (0 or 1) Hold

BSSCC: T1 (CO) Channel Position
B=Cabinet no. 1-6
SS=Slot no. 01-12
CC=Channel no. 01-24

0=Do not allow Auto-Repeat Dialing.
1=Allow Auto-Repeat Dialing. (default)

FF2 Exchange

Notes:

Auto-Repeat Dial: Dial an outside call. If busy tone is received, press REDIAL to have the system automatically redial the number at set intervals (max. 15 times) until the called party answers or the user hangs up.

Related Programming:

Flash Timer for Auto-Repeat Dial (pg. 1-129) **FF1 1 01 0003 Hold (1-255) Hold**

DTMF After Answer (Link Control)

BSSCC-0305:0
Link Control

(all CPCs) - Version 1.0 or higher

For calls on this T1 channel using pushbutton (DTMF) SLT phones, set whether DTMF signals can be sent through the system after the called party answers.

FF2 2 BSSCC 03 05 Hold (0 or 1) Hold

BSSCC: T1 (CO) Channel Position
B=Cabinet no. 1-6
SS=Slot no. 01-12
CC=Channel no. 01-24

0=Two-Way Link: DTMF path open both ways. (default)

1=One-Way Link: No DTMF signaling after the called party answers.

Notes:

Set this address to “1” (One-Way Link) to prevent double-dialing -- making an outgoing call on the same trunk after the called party hangs up, thus bypassing TRS restrictions.

Related Programming:

DTMF/Dial Pulse Dialing (pg. 2-96) **FF2 2 BSSCC 03 00 Hold (0 or 1) Hold**

CO Dial Tone Simulation

BSSCC-0306:0
CO-DT

(all CPCs) - Version 1.0 or higher

Set whether the system will send a simulated CO dial tone to an extension using this T1 channel (important for DID Wink-Start trunk signaling).

FF2 2 BSSCC 03 06 Hold (0 or 1) Hold

BSSCC: T1 (CO) Channel Position
B=Cabinet no. 1-6
SS=Slot no. 01-12
CC=Channel no. 01-24

0=Do not send simulated CO dial tone to extension. (default)

1=Send simulated CO dial tone to extension.

FF2
Exchange

Notes:

Set to "1" (Send) if the CO doesn't support dial tone (typical in U.K.).

Related Programming:

Trunk Signal Type (pg. 2-87) **FF2 2 BSSCC 02 00 Hold (0-3) Hold**

SMDR for Outbound Calls

BSSCC-0307:1
SMDR Output/Out

(all CPCs) - Version 1.0 or higher

Set whether ***outbound*** calls on the T1 channel will be included in SMDR records.

FF2 2 BSSCC 03 07 Hold (0 or 1) Hold

BSSCC: T1 (CO) Channel Position
B=Cabinet no. 1-6
SS=Slot no. 01-12
CC=Channel no. 01-24

0=Do not include in SMDR.

1=Include in SMDR. (default)

Notes:

Related Programming:

Call Logging Data to Serial Port (pg. 1-102) **FF1 0 06 0001 Hold (0-2) Hold**
Call Logging Output Format (pg. 1-107) **FF1 0 09 0001 Hold (0-2) Hold**

SMDR for Inbound Calls

BSSCC-0308:0
SMDR Output/In

(all CPCs) - Version 1.0 or higher

Set whether ***incoming*** calls on the T1 channel will be included in SMDR records.

FF2 2 BSSCC 03 08 Hold (0 or 1) Hold

BSSCC: T1 (CO) Channel Position
B=Cabinet no. 1-6
SS=Slot no. 01-12
CC=Channel no. 01-24

0=Do not include in SMDR. (default)

1=Include in SMDR.

FF2
Exchange

Notes:

Related Programming:

Call Logging Data to Serial Port (pg. 1-102) **FF1 0 06 0001 Hold (0-2) Hold**
Call Logging Output Format (pg. 1-107) **FF1 0 09 0001 Hold (0-2) Hold**

Flash Key Operation

BSSCC-0309:0
Flash Control

(all CPCs) - Version 1.0 or higher

Set what happens when a digital phone user presses the FLASH, PROG or Recall key during a call on this T1 channel.

FF2 2 BSSCC 03 09 Hold (0 or 1) Hold

BSSCC: T1 (CO) Channel Position
B=Cabinet no. 1-6
SS=Slot no. 01-12
CC=Channel no. 01-24

0=Flash signal is sent to CO. (default)

1=T1 channel is released, then user hears internal dial tone.

Notes:

The sending of the flash signal can also be enabled/disabled on individual extensions (see **Flash Signal Control** on pg. 3-19).

❒ If the flash signal is disabled on the trunk but enabled on the extension (or vice versa), a flash signal ***will be sent*** when the user accesses the trunk and presses FLASH.

(all CPCs - Version 1.3 and higher) If this address is set to **0=Flash signal is sent to CO (default),** it will also apply to an FF-key programmed for the SLT Flash Send feature (765 by default). See **Dial Plans A and B** on pg. 1-168.

Related Programming:

Flash Signal Control (pg. 3-19) FF3 0 BSSC 04 21 Hold (0 or 1) Hold
Dial Plan A: Flexible Feature Codes at Dial Tone (pg. 1-168) FF1 2 02 (0001-0056) Hold (max. 4-digit Code) Hold
Dial Plan B: Flexible Feature Codes at Dial Tone (pg. 1-170) FF1 2 03 (0001-0056) Hold (max. 4-digit Code) Hold

Long Talk Alarm

BSSCC-0310:0
Long-Talk Alarm

(all CPCs) - Version 1.0 or higher

Enable/Disable alarm tone heard by extension user during an outbound call on the T1 channel, if the call lasts longer than the **Long Talk Alarm Timer.**

FF2 2 BSSCC 03 10 Hold (0 or 1) Hold

BSSCC: T1 (CO) Channel Position
B=Cabinet no. 1-6
SS=Slot no. 01-12
CC=Channel no. 01-24

0=Disable Long Talk Alarm. (default)
1=Enable Long Talk Alarm.

FF2
Exchange

Notes:

By default, individual extensions are enabled for the Long Talk Alarm (via Extension COS setting).

Related Programming:

Long Talk Alarm #1 Timer (pg. 1-147) FF1 1 02 0010 Hold (0-255) Hold
Long Talk Alarm #2 Timer (pg. 1-148) FF1 1 02 0011 Hold (0-255) Hold
Extension COS: Long Talk Alarm (pg. 1-76) FF1 0 03 (00-15) 40 Hold (0 or 1) Hold

Alarm Ringing

BSSCC-0311:0
Alarm Ringing

(all CPCs) - Version 1.0 or higher

Enable/Disable Alarm Ringing for incoming calls on this T1 channel that ring unanswered for longer than the **Slide Ring/Alarm Ring Timer.**

FF2 2 BSSCC 03 11 Hold (0 or 1) Hold

BSSCC: T1 (CO) Channel Position
B=Cabinet no. 1-6
SS=Slot no. 01-12
CC=Channel no. 01-24

0=Disable Alarm Ringing. (default)
1=Enable Alarm Ringing.

Notes:

Alarm Ringing: Ringing frequency/interval changes for an incoming call that rings unanswered for longer than the **Slide Ring/Alarm Ring Timer.**

Alarm Ringing will not work while Slide Ringing or Delayed Ringing is occurring.

Related Programming:

Ring Alarm Frequency (pg. 1-119) FF1 0 21 0001 Hold (0-6) Hold
Ring Alarm Pattern (pg. 1-120) FF1 0 21 0002 Hold (0-12) Hold
Slide Ring/Alarm Ring Timer (Day1) (pg. 1-145) FF1 1 02 0007 Hold (0-255) Hold
Slide Ring/Alarm Ring Timer (Day2) (pg. 1-146) FF1 1 02 0008 Hold (0-255) Hold
Slide Ring/Alarm Ring Timer (Night) (pg. 1-146) FF1 1 02 0009 Hold (0-255) Hold

FF2
Exchange

Slide Ring

BSSCC-0312:0
Slide Ringing

(all CPCs) - Version 1.0 or higher

Enable/Disable Slide Ringing for incoming calls on this T1 channel that ring unanswered for longer than the **Slide Ring/Alarm Ring Timer.**

FF2 2 BSSCC 03 12 Hold (0 or 1) Hold

BSSCC: T1 (CO) Channel Position
B=Cabinet no. 1-6
SS=Slot no. 01-12
CC=Channel no. 01-24

0=Disable Slide Ringing. (default)
1=Enable Slide Ringing.

Notes:

Slide Ringing: Applies to extensions that are Slide Ringing-enabled and have trunk FF-key assignments (where the trunk is also enabled for Slide Ringing in the above address). An incoming call on the trunk will ring at the assigned extension or hunt group first (see **Day1/2/Night Ring Assignments** in FF2). Then, after the **Slide Ring/Alarm Ring Timer** expires, the call will begin ringing at the extension(s) that have an FF-key for the trunk (see **FF-Key Feature Assignment** in FF4).

Related Programming:

Slide Ring/Alarm Ring Timer (Day1) (pg. 1-145) FF1 1 02 0007 Hold (0-255) Hold
Slide Ring/Alarm Ring Timer (Day2) (pg. 1-146) FF1 1 02 0008 Hold (0-255) Hold
Slide Ring/Alarm Ring Timer (Night) (pg. 1-146) FF1 1 02 0009 Hold (0-255) Hold
Slide Ringing Receive (pg. 3-9) (on individual extensions) FF3 0 BSSC 04 02 Hold (0 or 1) Hold
Ring Type/Destination - Day1, Day2, Night (pg. 2-106) FF2 2 BSSC 04 (0-5) Hold (0-6 or 0-9999) Hold
FF-Key Feature Assignment (Digital Keyphones, SLTs, EM/24s) (pg. 4-7) FF4 0 BSSC 0 (01-32) Hold FL/R (Code) Hold

DTMF Conversion (Outbound Calls)

BSSCC-0313:1
PB Convert/Out

(all CPCs) - Version 1.0 or higher

Set whether the T1 channel will switch from dial-pulse to DTMF signaling after the called party answers an outbound call, according to the **Call Duration Timer.**

FF2 2 BSSCC 03 13 Hold (0 or 1) Hold

BSSCC: T1 (CO) Channel Position
B=Cabinet no. 1-6
SS=Slot no. 01-12
CC=Channel no. 01-24

0=Do not switch to DTMF signaling.

1=Switch to DTMF signaling after the called (outside) party answers. (default)

FF2
Exchange

Notes:

Related Programming:

Call Duration Timer (Public Exchange Line) (pg. 1-131) FF1 1 01 0005 Hold (1-255) Hold
DTMF/Dial Pulse Dialing (pg. 2-96) FF2 2 BSSCC 03 00 Hold (0 or 1) Hold

DTMF Conversion (Inbound Calls)

BSSCC-0314:1
PB Convert/In

(all CPCs) - Version 1.0 or higher

Set whether the T1 channel will switch from dial-pulse to DTMF signaling after the extension user answers an incoming call.

FF2 2 BSSCC 03 14 Hold (0 or 1) Hold

BSSCC: T1 (CO) Channel Position
B=Cabinet no. 1-6
SS=Slot no. 01-12
CC=Channel no. 01-24

0=Do not switch to DTMF signaling.

1=Switch to DTMF signaling after the phone user answers. (default)

Notes:

Related Programming:

DTMF/Dial Pulse Dialing (pg. 2-96) FF2 2 BSSCC 03 00 Hold (0 or 1) Hold

Indirect LCR

BSSCC-0315:0
Indirect LCR

(all CPCs) - Version 1.0 or higher

(U.K. use only) Enable/Disable the Indirect Least Cost Routing (LCR) function.

FF2 2 BSSCC 03 15 Hold (0 or 1) Hold

BSSCC: T1 (CO) Channel Position
B=Cabinet no. 1-6
SS=Slot no. 01-12
CC=Channel no. 01-24

0=Disable Indirect LCR. (default)
1=Enable Indirect LCR.

FF2
Exchange

Notes:

Indirect LCR: System will send a pre-assigned code (set in the ARS Dial Conversion Tables) when an extension seizes the trunk to make an outgoing call. This feature is used in the U.K. for sending a system identification PIN number to the CO.

U.S.A.: Do not enable this address for MCO access code routing (eg., dialing "9" to get an outside line). Instead, use ARS tables (see FF6) so the system can distinguish intercom calls from outgoing calls.

Related Programming:

FF6 2 05: Digit Modify Table (pg. 6-40)

Call Duration

BSSCC-0316:1
Call Duration

(all CPCs) - Version 1.0 or higher

Set whether the system will use the **Call Duration Timer** to begin tracking call duration (both on LCD display and in SMDR records) for an outgoing call on this trunk.

FF2 2 BSSCC 03 16 Hold (0 or 1) Hold

BSSCC: T1 (CO) Channel Position
B=Cabinet no. 1-6
SS=Slot no. 01-12
CC=Channel no. 01-24

0=Do not use system timer to start call duration.

1=Use system timer to start call duration. (default)

Notes:

This address should be set to "0" (*Do not* use system timer) if the CO sends back reverse signaling for called-party answer (typical in the U.K.).

Related Programming:

Call Duration Timer (Public Exchange Line) (pg. 1-131) **FF1 1 01 0005 Hold (1-255) Hold**

Not Used

(all CPCs) - Version 1.0 or higher

FF2 2 BSSCC 03 17 Hold — **BSSCC-0317: Not Used**

FF2 2 BSSCC 03 18 Hold — **BSSCC-0318: Not Used**

Day1 Ring Type

BSSCC-040: 0
Day1 Ring Type

(all CPCs) - Version 1.0 or higher

Set the T1 channel's ringing type for incoming calls during Day1 mode.

FF2 2 BSSCC 04 0 Hold (0-6) Hold

BSSCC: T1 (CO) Channel Position
B=Cabinet no. 1-6
SS=Slot no. 01-12
CC=Channel no. 01-24

0=Multiple Incoming (default)
1=DID or DNIS
2=DISA
3=DIL to Extension
4=DIL to Hunt Group
5=DIL to SSD
6=DIL to Attendant Hunt Group

FF2
Exchange

Day1 Ring Destination

BSSCC-041 :
D1 Destination

(all CPCs) - Version 1.0 or higher

Assign a destination extension, Hunt Group, SSD code, or Attendant Hunt Group for a "DIL" (Direct In-Line) setting in the above address.

FF2 2 BSSCC 04 1 Hold (0-9999) Hold

BSSCC: T1 (CO) Channel Position
B=Cabinet no. 1-6
SS=Slot no. 01-12
CC=Channel no. 01-24

Destination Number:
(if "3=DIL to Extension") Ext.No., Virtual Ext.No., or Closed No.
(if "4=DIL to Hunt Group") Extension Hunt Group No. (1-72)
(if "5=DIL to SSD") SSD Code No.
(if "6=DIL to Attendant") Attendant Hunt Group Pilot No.

default: [no assignment]

Notes:

Multiple Incoming: An incoming call on this trunk can ring on multiple extensions that have a CO or MCO FF-key line appearance for the trunk (see **Trunk FF-Key** addresses in FF4).

Ring destinations for **DID/DNIS** trunks are assigned in **DID Tables** (FF1 4 02 and 04). **DISA** trunks do not require a ring destination assignment; the DISA caller dials the desired extension after entering the phone system.

To set up Virtual Port Ringing: Choose "3=DIL to Extension" and enter the Virtual Port Extension No. (*not* the port no.) in the above addresses. Extension Numbers are assigned to Virtual Ports in FF3 2 (001-576) 00 Hold (0-9999) Hold (pg. 3-40).

Related Programming:

DDI/CLI Dial Table ("A" Side) (pg. 1-184) FF1 4 02 (000-575) (1-6) Hold (0-9999 or 1-72) Hold
DDI/CLI Dial Table ("B" Side) (pg. 1-187) FF1 4 04 (000-575) (1-6) Hold (0-9999 or 1-72) Hold
Extension Number Assignment (pg. 3-4) for digital keyphones/SLTs FF3 0 BSSC 02 Hold (0-9999) Hold
Extension Number Assignment (pg. 3-29) for S-point ISDN extensions FF3 1 BSSC 01 Hold (0-9999) Hold
Extension Number Assignment (pg. 3-40) FF3 2 (001-576) 00 Hold (0-9999) Hold
FF-Key Feature Assignment (Digital Keyphones, SLTs, EM/24s) (pg. 4-7) FF4 0 BSSC 0 (01-32) Hold FL/R (Code) Hold
FF-Key Feature Assignment (DSS/72) (pg. 4-14) FF4 1 BSSC 0 (01-72) Hold FL/R (Code) Hold
Attendant HG: Pilot Number (pg. 5-3) FF5 0 01 Hold (0-9999) Hold
FF5 1: Extension Hunt Groups (pg. 5-13)
Closed Number Table: Digit String (pg. 6-44) FF6 2 07 (001-150) 0001 Hold (1-4 digits) Hold
SSD Numbers (pg. 8-46) FF8 1 02 Hold 0 Hold Hold (00/0-79/9) Hold FL/R (up to 24 char.) Hold

Day2 Ring Type

BSSCC-042 :0 Day2 Ring Type

(all CPCs) - Version 1.0 or higher

Set the T1 channel's ringing type for incoming calls during Day2 mode.

FF2 2 BSSCC 04 2 Hold (0-6) Hold

BSSCC: T1 (CO) Channel Position
B=Cabinet no. 1-6
SS=Slot no. 01-12
CC=Channel no. 01-24

0=Multiple Incoming (default)
1=DID or DNIS
2=DISA
3=DIL to Extension
4=DIL to Hunt Group
5=DIL to SSD
6=DIL to Attendant Hunt Group

Day2 Ring Destination

BSSCC-043 : D2 Destination

(all CPCs) - Version 1.0 or higher

Assign a destination extension, Hunt Group, SSD code, or Attendant Hunt Group for a "DIL" (Direct In-Line) setting in the above address).

FF2 2 BSSCC 04 3 Hold (0-9999) Hold

BSSCC: T1 (CO) Channel Position
B=Cabinet no. 1-6
SS=Slot no. 01-12
CC=Channel no. 01-24

Destination Number:
(if "3=DIL to Extension") Ext.No., Virtual Ext.No., or Closed No.
(if "4=DIL to Hunt Group") Extension Hunt Group No. (1-72)
(if "5=DIL to SSD") SSD Code No.
(if "6=DIL to Attendant") Attendant Hunt Group Pilot No.

default: [no assignment]

Notes: *(see* **"Day1 Ring Type/Destination" - pg. 2-106***)*

Related Programming: *(see* **"Day1 Ring Type/Destination" - pg. 2-106***)*

Night Ring Type

BSSCC-044 :0
Night Ring Type

(all CPCs) - Version 1.0 or higher

Set the T1 channel's ringing type for incoming calls during Night mode.

FF2 2 BSSCC 04 4 Hold (0-6) Hold

BSSCC: T1 (CO) Channel Position
B=Cabinet no. 1-6
SS=Slot no. 01-12
CC=Channel no. 01-24

0=Multiple Incoming (default)
1=DID or DNIS
2=DISA
3=DIL to Extension
4=DIL to Hunt Group
5=DIL to SSD
6=DIL to Attendant Hunt Group

FF2
Exchange

Night Ring Destination

BSSCC-045 :
N Destination

(all CPCs) - Version 1.0 or higher

Assign a destination extension, Hunt Group, SSD code, or Attendant Hunt Group for a "DIL" (Direct In-Line) setting in the above address.

FF2 2 BSSCC 04 5 Hold (0-9999) Hold

BSSCC: T1 (CO) Channel Position
B=Cabinet no. 1-6
SS=Slot no. 01-12
CC=Channel no. 01-24

Destination Number:
(if "3=DIL to Extension") Ext.No., Virtual Ext.No., or Closed No.
(if "4=DIL to Hunt Group") Extension Hunt Group No. (1-72)
(if "5=DIL to SSD") SSD Code No.
(if "6=DIL to Attendant") Attendant Hunt Group Pilot No.

default: [no assignment]

Notes: *(see* **"Day1 Ring Type/Destination" - pg. 2-106***)*

Related Programming: *(see* **"Day1 Ring Type/Destination" - pg. 2-106***)*

Day1 Delayed Ring Type

BSSCC-050 :0
Day1 D-Ring Type

(all CPCs) - Version 1.0 or higher

Set the T1 channel's delayed-ringing type during Day1 mode.
NOTE: **Day1 Ring Type (pg. 2-106)** must be either "DIL" or "Multiple Incoming" to set Day1 Delayed Ringing (DID and DISA do not apply here).

FF2 2 BSSCC 05 0 Hold (0-4) Hold

BSSCC: T1 (CO) Channel Position
B=Cabinet no. 1-6
SS=Slot no. 01-12
CC=Channel no. 01-24

0=Disabled; no delayed ringing (default)
1=delay-ring to Extension
2=delay-ring to Hunt Group
3=delay-ring to SSD
4=delay-ring to Attendant Hunt Group

FF2
Exchange

Day1 Delayed Ring Destination

BSSCC-051 :
D1 D-Destination

(all CPCs) - Version 1.0 or higher

Assign a destination extension, Hunt Group, SSD code, or Attendant Hunt Group, depending on the setting in the above address.

FF2 2 BSSCC 05 1 Hold (0-9999) Hold

BSSCC: T1 (CO) Channel Position
B=Cabinet no. 1-6
SS=Slot no. 01-12
CC=Channel no. 01-24

Destination Number:
(if "1=delay-ring to Extension") Ext.No., Virtual Ext.No., or Closed No.
(if "2=delay-ring to Hunt Group") Extension Hunt Group No. (1-72)
(if "3=delay-ring to SSD") SSD Code No.
(if "4=delay-ring to Attendant") Attendant Hunt Group Pilot No.

default: [no assignment]

Notes:

Delayed ringing for DID trunks is set in the **DID Tables** (FF1 4).

Related Programming:

Day1 Ring Type (pg. 2-106) FF2 2 BSSCC 04 0 Hold (0-6) Hold
Extension Number Assignment (pg. 3-4) on digital keyphones/SLTs FF3 0 BSSC 02 Hold (0-9999) Hold
Extension Number Assignment (pg. 3-29) on S-point ISDN extensions FF3 1 BSSC 01 Hold (0-9999) Hold
Extension Number Assignment (pg. 3-40) FF3 2 (001-576) 00 Hold (0-9999) Hold
Attendant HG: Pilot Number (pg. 5-3) FF5 0 01 Hold (0-9999) Hold
FF5 1: Extension Hunt Groups (pg. 5-13)
Closed Number Table: Digit String (pg. 6-44) FF6 2 07 (001-150) 0001 Hold (1-4 digits) Hold
SSD Numbers (pg. 8-46) FF8 1 02 Hold 0 Hold Hold (00/0-79/9) Hold FL/R (up to 24 char.) Hold

CO Delayed Ring Timer ...

Day1 unanswered calls (pg. 1-142) FF1 1 02 0003 Hold (0-255) Hold
Day2 unanswered calls (pg. 1-142) FF1 1 02 0004 Hold (0-255) Hold
Night unanswered calls (pg. 1-143) FF1 1 02 0005 Hold (0-255) Hold
Busy (pg. 1-144) FF1 1 02 0006 Hold (0-255) Hold

Day2 Delayed Ring Type

BSSCC-052 :0
Day2 D-Ring Type

(all CPCs) - Version 1.0 or higher

Set the T1 channel's delayed-ringing type during Day2 mode.
NOTE: **Day2 Ring Type (pg. 2-107)** must be either "DIL" or "Multiple Incoming" to set Day2 Delayed Ringing (DID and DISA do not apply here).

FF2
Exchange

FF2 2 BSSCC 05 2 Hold (0-4) Hold

BSSCC: T1 (CO) Channel Position
B=Cabinet no. 1-6
SS=Slot no. 01-12
CC=Channel no. 01-24

0=Disabled; no delayed ringing (default)
1=delay-ring to Extension
2=delay-ring to Hunt Group
3=delay-ring to SSD
4=delay-ring to Attendant Hunt Group

Day2 Delayed Ring Destination

BSSCC-053 :
D2 D-Destination

(all CPCs) - Version 1.0 or higher

Assign a destination extension, Hunt Group, SSD code, or Attendant Hunt Group, depending on the setting in the above address.

FF2 2 BSSCC 05 3 Hold (0-9999) Hold

BSSCC: T1 (CO) Channel Position
B=Cabinet no. 1-6
SS=Slot no. 01-12
CC=Channel no. 01-24

Destination Number:
(if "1=delay-ring to Extension") Ext.No., Virtual Ext.No., or Closed No.
(if "2=delay-ring to Hunt Group") Extension Hunt Group No. (1-72)
(if "3=delay-ring to SSD") SSD Code No.
(if "4=delay-ring to Attendant") Attendant Hunt Group Pilot No.

default: [no assignment]

Notes: *(see* **"Day1 Delayed Ring Type/Destination" - pg. 2-109***)*

Related Programming: *(see* **"Day1 Delayed Ring Type/Destination" - pg. 2-109***)*

Night Delayed Ring Type

BSSCC-054 :0
NGT D-Ring Type

(all CPCs) - Version 1.0 or higher

Set the T1 channel's delayed-ringing type during Night mode.
NOTE: **Night Ring Type (pg. 2-108)** must be either "DIL" or "Multiple Incoming" to set Night Delayed Ringing (DID and DISA do not apply here).

FF2 2 BSSCC 05 4 Hold (0-4) Hold

BSSCC: T1 (CO) Channel Position
B=Cabinet no. 1-6
SS=Slot no. 01-12
CC=Channel no. 01-24

0=Disabled; no delayed ringing (default)
1=delay-ring to Extension
2=delay-ring to Hunt Group
3=delay-ring to SSD
4=delay-ring to Attendant Hunt Group

FF2 Exchange

Night Delayed Ring Destination

BSSCC-055 :
N D-Destination

(all CPCs) - Version 1.0 or higher

Assign a destination extension, Hunt Group, SSD code, or Attendant Hunt Group, depending on the setting in the above address.

FF2 2 BSSCC 05 5 Hold (0-9999) Hold

BSSCC: T1 (CO) Channel Position
B=Cabinet no. 1-6
SS=Slot no. 01-12
CC=Channel no. 01-24

Destination Number:
(if "1=delay-ring to Extension") Ext.No., Virtual Ext.No., or Closed No.
(if "2=delay-ring to Hunt Group") Extension Hunt Group No. (1-72)
(if "3=delay-ring to SSD") SSD Code No.
(if "4=delay-ring to Attendant") Attendant Hunt Group Pilot No.

default: [no assignment]

Notes: *(see* **"Day1 Delayed Ring Type/Destination" - pg. 2-109***)*

Related Programming: *(see* **"Day1 Delayed Ring Type/Destination" - pg. 2-109***)*

Tenant Group Assignment

BSSCC-06 : Tenant Group

(all CPCs) - Version 1.0 or higher

Assign the T1 channel to a Tenant Group, which will apply when the T1 channel originates an outbound call (such as DISA).

FF2 2 BSSCC 06 Hold (1-72) Hold

BSSCC: T1 (CO) Channel Position
B=Cabinet no. 1-6
SS=Slot no. 01-12
CC=Channel no. 01-24

Tenant Group No. --
with a CPC-96: Tenant Groups 01-12
with a CPC-288: Tenant Groups 01-36
with a CPC-576: Tenant Groups 01-72

default: 0 [no assignment]

FF2 Exchange

Notes:

Related Programming:

MOH Source for Exchange Lines (pg. 1-110) **FF1 0 12 (0001-0072) Hold (0-3) Hold**

TRS Class Assignment (Day)

BSSCC-070 :1 Day1/2 TRS CLS

(all CPCs) - Version 1.0 or higher

Assign a Toll Restriction Service (TRS) Class to the T1 channel, applicable during Day1 and Day2 modes when the trunk originates an outbound call (such as DISA).

FF2 2 BSSCC 07 0 Hold (1-50) Hold

BSSCC: T1 (CO) Channel Position
B=Cabinet no. 1-6
SS=Slot no. 01-12
CC=Channel no. 01-24

TRS Class No. 1-50 for Day Mode

default: 1

Notes:

Related Programming:

FF6 1: TRS Class Definitions (pg. 6-16)

TRS Class Assignment (Night)

BSSCC-071 :1
Night TRS CLS

(all CPCs) - Version 1.0 or higher

Assign a Toll Restriction Service (TRS) Class to the T1 channel, applicable during Night mode when the trunk originates an outbound call (such as DISA).

FF2 2 BSSCC 07 1 Hold (1-50) Hold

BSSCC: T1 (CO) Channel Position
B=Cabinet no. 1-6
SS=Slot no. 01-12
CC=Channel no. 01-24

TRS Class No. 1-50 for Night Mode
default: 1

FF2
Exchange

Notes:

Related Programming:

FF6 1: TRS Class Definitions (pg. 6-16)

Trunk COS Assignment

BSSCC-08 :1
Trunk COS

(all CPCs) - Version 1.0 or higher

Assign a Trunk Class of Service (COS) number to the T1 channel.

FF2 2 BSSCC 08 Hold (1-16) Hold

BSSCC: T1 (CO) Channel Position
B=Cabinet no. 1-6
SS=Slot no. 01-12
CC=Channel no. 01-24

Trunk Class of Service No. 1-16
default: 1

Notes:

This **Trunk COS Assignment** controls the ring tone for incoming calls on this trunk - CO ring tone, intercom ring tone, or (for DIL trunks) a specific ring pattern. The Trunk COS also controls various network settings. See **FF1 0 04: Exchange Line COS Definitions (pg. 1-88)**.

Related Programming:

Exchange Line COS: Incoming Ring Tone Source (pg. 1-88) FF1 0 04 (00-15) 01 Hold (0 or 1) Hold
Exchange Line COS: DDI/CLI Table (pg. 1-91) FF1 0 04 (00-15) 04 Hold (0 or 1) Hold
Exchange Line COS: Paging on DISA/Private Line Call (pg. 1-92) FF1 0 04 (00-15) 05 Hold (0 or 1) Hold
Exchange Line COS: DISA ID Verification (pg. 1-93) FF1 0 04 (00-15) 06 Hold (0 or 1) Hold

Ring Pattern (pg. 2-92) **FF2 2 BSSCC 02 09 Hold (0-12) Hold**
Day1/Day2/Night Ring Type/Destination (pg. 2-106) **FF2 2 BSSCC 04 (0 thru 5) ...**

Trunk Digital Pad Class Assignment

BSSCC-09 :7
Trunk DPAD CLS

(all CPCs) - Version 1.0 or higher

Assign a Digital Pad Class to the T1 channel.

FF2 2 BSSCC 09 Hold (1-16) Hold

FF2
Exchange

BSSCC: T1 (CO) Channel Position
B=Cabinet no. 1-6
SS=Slot no. 01-12
CC=Channel no. 01-24

Trunk Digital Pad Class No. 1-16
default: 7

Notes:

Based on this setting, you can assign automatic volume adjustments for different connection types to this T1 channel (see FF1 8 02).

Related Programming:

Digital Pad Settings for Exchange Line Pad Class (pg. 1-195) **FF1 8 02 (0001-0480) Hold (0-31) Hold**

FF2 2: T1-E&M Tie Lines (future use)

NOTE: *These FF2 2 addresses currently apply only to the USA.*

The following settings apply to point-to-point network trunks (connections between 2 or more switches). For T1-CO Trunk programming, go to pg. 2-86.

Trunk Connection Type (CO/Network)

BSSCC-00 :1
TRK Type CO/NET

(all CPCs) - Version 1.0 or higher

Set whether the T1 channel is connected to the CO or to a private network.

FF2 2 BSSCC 00 Hold (1-2) Hold

BSSCC: T1 (E&M Tie) Channel Position
B=Cabinet no. 1-6
SS=Slot no. 01-12
CC=Channel no. 01-24

1=CO (default)
2=Private Network (E&M)

FF2 Exchange

Notes:

The remaining addresses in this **T1 Trunks (E&M Tie)** section will apply if the T1 trunk is set to 2=Private Network in the above address. If **1=CO (default)** is chosen instead, go to pg. 2-86.

Choose **1=CO** (and follow the addresses starting on pg. 2-86) if the carrier is providing DID/DNIS trunks with E&M signaling.

Related Programming:

Trunk Connection Type (CO/PBX) (pg. 2-126) **FF2 2 BSSCC 03 03 Hold (0 or 1) Hold**

Trunk Number Assignment

BSSCC-01 : Trunk Number

(all CPCs) - Version 1.0 or higher

Assign a trunk number to each T1 channel.

(or BLK-DOWN)

FF2 2 BSSCC 01 Hold (0-576) Hold

BSSCC: T1 (E&M Tie) Channel Position
B=Cabinet no. 1-6
SS=Slot no. 01-12
CC=Channel no. 01-24

Trunk Number 1-576
(0 = no trunk)

default: [no assignment]

FF2 Exchange

Notes:

Press the BLK-DOWN soft key instead of the last HOLD in the above address, to scroll to the next BSSC trunk position and assign it a trunk number (stay in same address).

Before removing a Trunk Card from a Free Slot, you must first clear the Trunk Numbers (if assigned) from all of the Card's BSSC ports in this address. See pg. 0-3 for more information.

The range of trunk numbers available for assignment depends on the CPC used:

with a CPC-96:	Trunk Nos. 1-96
with a CPC-288:	Trunk Nos. 1-288
with a CPC-576:	Trunk Nos. 1-576

Related Programming:

Exchange Line Numbering (pg. 1-22) **FF1 0 02 0001 Hold (0 or 1) Hold**

Trunk Signal Type

BSSCC-0200:5 Signal Type

(all CPCs) - Version 1.0 or higher

Set the T1 channel's signaling type.

FF2 2 BSSCC 02 00 Hold (0-5) Hold

BSSCC: T1 (E&M Tie) Channel Position
B=Cabinet no. 1-6
SS=Slot no. 01-12
CC=Channel no. 01-24

4=E&M/AC15 (Immediate Start)
5=E&M/AC15 (Wink Start) (default)

NOTE: Settings 0-3 apply to **T1 Trunks (CO).** See pg. 2-86 for more information.

Notes:

Related Programming:

Not Used

(all CPCs) - Version 1.0 or higher

FF2 2 BSSCC 02 01 Hold

BSSCC-0201:
Not Used

FF2 2 BSSCC 02 02 Hold

BSSCC-0202:
Not Used

FF2 2 BSSCC 02 03 Hold

BSSCC-0203:
Not Used

FF2
Exchange

Ring Detect Timer

BSSCC-0204:0
RingDET Timer

(all CPCs) - Version 1.0 or higher

Set the amount of time allowed for the system to recognize an incoming call on a T1 channel set for **Immediate Start** signaling (see **Trunk Signal Type).**

FF2 2 BSSCC 02 04 Hold (0 or 1) Hold

BSSCC: T1 (E&M Tie) Channel Position
B=Cabinet no. 1-6
SS=Slot no. 01-12
CC=Channel no. 01-24

0=48 ms (default)
1=160 ms

Notes:

Related Programming:

Trunk Signal Type (pg. 2-116) **FF2 2 BSSCC 02 00 Hold (0-5) Hold**

Auto Answer for Outbound Calls

BSSCC-0205:0
Auto Detect Answer

(all CPCs) - Version 1.0 or higher

Set whether the system will automatically assume that an outgoing call on this T1 channel has been answered by the other end, without waiting for an answer signal.

FF2 2 BSSCC 02 05 Hold (0 or 1) Hold

BSSCC: T1 (E&M Tie) Channel Position
B=Cabinet no. 1-6
SS=Slot no. 01-12
CC=Channel no. 01-24

0=Disable Auto Answer (default). Wait for answer signal from other end before opening voice path.

1=Enable Auto Answer. Open voice path without waiting for answer signal.

FF2
Exchange

Notes:

This address should be set to "1" (Enable) if the other system does not send back an answer signal, or if the trunk is used for paging calls.

Related Programming:

Auto Answer Timer (pg. 2-124) **FF2 2 BSSCC 02 15 Hold (0-3) Hold**

Frame Format

BSSCC-0206:0
Frame Format

(all CPCs) - Version 1.0 or higher

Set the framing format ordered from the CO (assign to Channel #1).

FF2 2 BSSCC 02 06 Hold (0 or 1) Hold

BSSCC: T1 (E&M Tie) Channel Position ("01" only):
B=Cabinet no. 1-6
SS=Slot no. 01-12
CC=Channel no. 01

0=SF (default)

1=ESF

Notes:

This setting is available only for Channel 01.

"SF" stands for SuperFrame (also known as D4), in which sampling frames are transmitted in groups of 12.

"ESF" stands for Extended SuperFrame, in which sampling frames are transmitted in groups of 24. ESF provides monitoring and maintenance capabilities that aren't available with SF.

Both “SF” and “ESF” use robbed-bit signaling, in which the 8th bit is robbed from every 6th frame to transmit signaling states such as On-Hook and Off-Hook.

Related Programming:

Synchronised Clock (pg. 1-116) **FF1 0 18 (0001-0003) Hold (BSS/C) Hold**

Line Coding

BSSCC-0207:0
Line Coding

(all CPCs) - Version 1.0 or higher

Set the clear-channel format ordered from the CO (assign to Channel #1).

FF2 2 BSSCC 02 07 Hold (0 or 1) Hold

BSSCC: T1 (E&M Tie)
Channel Position (“01” only):
B=Cabinet no. 1-6
SS=Slot no. 01-12
CC=Channel no. 01

0=AMI (default)
1=B8ZS

Notes:

This setting is available only for Channel 01.

“AMI” stands for Alternate Mark Inversion.

“B8ZS” stands for Binary 8-Zeros Suppression.

Related Programming:

Ring Frequency

BSSCC-0208:1
Ring Frequency

(all CPCs) - Version 1.0 or higher

Set the ring frequency for incoming calls on the T1 channel. Affects ringing pitch on digital phones.

FF2 2 BSSCC 02 08 Hold (0-6) Hold

BSSCC: T1 (E&M Tie) Channel Position
B=Cabinet no. 1-6
SS=Slot no. 01-12
CC=Channel no. 01-24

0=No Ring
1=400/562 Hz (default)
2=1000/1340 Hz
3=400 Hz
4=800/1040 Hz
5=1040/1320 Hz
6=660/1320 Hz

FF2
Exchange

Notes:

Related Programming:

Ring Pattern

BSSCC-0209:1
Ring Cycle PTN

(all CPCs) - Version 1.0 or higher

(This setting does not apply to E&M tie-trunks.)

FF2 2 BSSCC 02 09 Hold (0-12) Hold

BSSCC: T1 (E&M Tie) Channel Position
B=Cabinet no. 1-6
SS=Slot no. 01-12
CC=Channel no. 01-24

Setting Values for U.K.		Setting Values for U.S. and Hong Kong	
0	Synchronize with CO	**0**	Synchronize with CO
1	1on/2off (default) (in seconds)	**1**	1on/3off (in seconds) (default)
2	2on/1off	**2**	2on/2off
3	1on/1off	**3**	3on/1off
4	.5on/.5off	**4**	1on/1off
5	.25on/2.75off	**5**	.5on/.5off
6	.25on/.25off/.25on/2.25off	**6**	.5on/3.5off
7	.25on/.25off/.25on/.25off/.25on/1.75off	**7**	.5on/.5off/.5on/2.5off
8	.75on/.25off/.75on/1.25off	**8**	.25on/.25off/.25on/3.25off
9	1on/.25off/.25on/1.5off	**9**	1on/.25off/.25on/2.5off
10	1on/.25off/.25on/.25off/.25on/1off	**10**	1on/.25off/.25on/.25off/.25on/2off
11	1.375on/.125off/.125on/.125off/.125on/.125off	**11**	1.375on/.125off/.125on/.125off/.125on/.125off
12	Continuous tone	**12**	Continuous tone

FF2 Exchange

Notes:

Related Programming:

DTMF On/Off Pattern During Talk

BSSCC-0210:1
DTMF PTN-Talk

(all CPCs) - Version 1.0 or higher

Set the DTMF signaling pattern that will apply after an extension user connects to the called party during a CO call on this T1 channel.

FF2 2 BSSCC 02 10 Hold (0-2) Hold

BSSCC: T1 (E&M Tie) Channel Position
B=Cabinet no. 1-6
SS=Slot no. 01-12
CC=Channel no. 01-24

0=DTMF Pattern #1
1=DTMF Pattern #2 (default)
2=DTMF Pattern #3

FF2
Exchange

Notes:

This address applies to the entry of account codes, selection of voice menu options, etc. during a call.

Up to 3 different DTMF patterns can be defined in **FF1 1 01 (0016-0019).**

(all CPCs - Version 1.3 and higher) During a 3-Party Conference, if an extension dials digit(s), DTMF signals will be sent to the other party (mainly for Voice Mail connection).

Related Programming:

DTMF ON: Pattern #1 (pg. 1-136) FF1 1 01 0016 Hold (1-255) Hold
DTMF OFF: Pattern #1 (pg. 1-137) FF1 1 01 0017 Hold (1-255) Hold
DTMF ON/OFF: Pattern #2 (pg. 1-138) FF1 1 01 0018 Hold (1-255) Hold
DTMF ON/OFF: Pattern #3 (pg. 1-139) FF1 1 01 0019 Hold (1-255) Hold

DTMF On/Off Pattern for Outgoing Dialing

BSSCC-0211:0
DTMF PTN-Dial

(all CPCs) - Version 1.0 or higher

Set the DTMF signaling pattern that will apply to the dialing of outbound phone numbers (DTMF sent to CO) on this T1 channel.

FF2 2 BSSCC 02 11 Hold (0-2) Hold

BSSCC: T1 (E&M Tie) Channel Position
B=Cabinet no. 1-6
SS=Slot no. 01-12
CC=Channel no. 01-24

0=DTMF Pattern #1 (default)
1=DTMF Pattern #2
2=DTMF Pattern #3

Notes:

Up to 3 different DTMF patterns can be defined in **FF1 1 01 (0016-0019).**

Related Programming:

DTMF ON: Pattern #1 (pg. 1-136) FF1 1 01 0016 Hold (1-255) Hold
DTMF OFF: Pattern #1 (pg. 1-137) FF1 1 01 0017 Hold (1-255) Hold
DTMF ON/OFF: Pattern #2 (pg. 1-138) FF1 1 01 0018 Hold (1-255) Hold
DTMF ON/OFF: Pattern #3 (pg. 1-139) FF1 1 01 0019 Hold (1-255) Hold
DTMF/Dial Pulse Dialing (pg. 2-124) FF2 2 BSSCC 03 00 Hold (0 or 1) Hold

Disconnect Supervision Timer

BSSCC-0212:0 Disconnect Timer

(all CPCs) - Version 1.0 or higher

Set how long the system will wait after detecting a drop in voltage from the CO, before recognizing it as a valid disconnect signal.

FF2 2 BSSCC 02 12 Hold (0-3) Hold

BSSCC: T1 (E&M Tie) Channel Position
B=Cabinet no. 1-6
SS=Slot no. 01-12
CC=Channel no. 01-24

0=160 ms (default)
1=96 ms
2=240 ms
3=800 ms

FF2 Exchange

Notes:

Related Programming:

Not Used

(all CPCs) - Version 1.0 or higher

FF2 2 BSSCC 02 13 Hold

BSSCC-0213: Not Used

FF2 2 BSSCC 02 14 Hold

BSSCC-0214: Not Used

Auto Answer Timer

BSSCC-0215:0
Auto ANS Timer

(all CPCs) - Version 1.0 or higher

Set how long the system will wait before opening a voice path when the user makes an outgoing call on this T1 channel.

FF2 2 BSSCC 02 15 Hold (0-3) Hold

BSSCC: T1 (E&M Tie) Channel Position
B=Cabinet no. 1-6
SS=Slot no. 01-12
CC=Channel no. 01-24

0=1 second (default)
1=2 seconds
2=3 seconds
3=4 seconds

FF2
Exchange

Notes:

Whether **Auto Answer** is enabled or disabled on this trunk (see pg. 2-118), the **Auto Answer Timer** will begin after the digits are outpulsed.

- If **Auto Answer** is enabled, the system will wait until the **Timer** expires before opening a voice path.
- If **Auto Answer** is disabled, the system will open the voice path when either: (1) the answer signal is received from the other end, or (2) the **Timer** expires -- whichever occurs first.

Related Programming:

Auto Answer for Outbound Calls (pg. 2-118) **FF2 2 BSSCC 02 05 Hold (0 or 1) Hold**

DTMF/Dial Pulse Dialing

BSSCC-0300:1
Dial Type DP/PB

(all CPCs) - Version 1.0 or higher

Set the T1 channel's signaling type for outbound and inbound dialing.

FF2 2 BSSCC 03 00 Hold (0 or 1) Hold

BSSCC: T1 (E&M Tie) Channel Position
B=Cabinet no. 1-6
SS=Slot no. 01-12
CC=Channel no. 01-24

0=Dial-pulse, at 10 pps
1=DTMF (default)

Notes:

Related Programming:

Flash Pattern

BSSCC-0301:0
Flash Length

(all CPCs) - Version 1.0 or higher

Set the pattern number that will be used for flash signals to the CO on the T1 channel.

FF2 2 BSSCC 03 01 Hold (0 or 1) Hold

BSSCC: T1 (E&M Tie) Channel Position
B=Cabinet no. 1-6
SS=Slot no. 01-12
CC=Channel no. 01-24

0=Flash Pattern #1 (default)
1=Flash Pattern #2

Notes:

Two different Flash Patterns can be defined in **Flash Timers 1 and 2,** FF1 1 01 (0001-0002).

Related Programming:

Flash Timer 1 for Exchange Line (pg. 1-128) **FF1 1 01 0001 Hold (1-255) Hold**
Flash Timer 2 for Exchange Line (pg. 1-129) **FF1 1 01 0002 Hold (1-255) Hold**

Not Used

(all CPCs) - Version 1.0 or higher

FF2 2 BSSCC 03 02 Hold

BSSCC-0302:
Not Used

Trunk Connection Type (CO/PBX)

BSSCC-0303:0
TRK Type CO/PBX

(all CPCs) - Version 1.0 or higher

Set whether the T1 channel connects directly to another E&M tie trunk (through the CO) or is behind a PBX/Centrex.

FF2 2 BSSCC 03 03 Hold (0 or 1) Hold

BSSCC: T1 (E&M Tie) Channel Position
B=Cabinet no. 1-6
SS=Slot no. 01-12
CC=Channel no. 01-24

0=CO (E&M tie) trunk. (default)
1=Behind a PBX/Centrex.

FF2
Exchange

Notes:

Related Programming:

PBX Exchange Line Access Codes (pg. 1-106) **FF1 0 08 (0001-0006) Hold FL/R (0-9999) Hold**

Not Used

(all CPCs) - Version 1.0 or higher

FF2 2 BSSCC 03 04 Hold

BSSCC-0304:
Not Used

DTMF After Answer (Link Control)

BSSCC-0305:0
Link Control

(all CPCs) - Version 1.0 or higher

For calls on this T1 channel using pushbutton (DTMF) SLT phones, set whether DTMF signals can be sent through the system after the called party answers.

FF2 2 BSSCC 03 05 Hold (0 or 1) Hold

BSSCC: T1 (E&M Tie) Channel Position
B=Cabinet no. 1-6
SS=Slot no. 01-12
CC=Channel no. 01-24

0=Two-Way Link: DTMF path open both ways. (default)

1=One-Way Link: No DTMF signaling after the called party answers.

Notes:

Set this address to "1" (One-Way Link) to prevent double-dialing -- making an outgoing call on the same trunk after the called party hangs up, thus bypassing TRS restrictions.

Related Programming:

CO Dial Tone Simulation

BSSCC-0306:0
CO-DT

(all CPCs) - Version 1.0 or higher

Set whether the system sends simulated CO dial tone to an extension using this T1 channel (important for DID Wink-Start trunk signaling).

FF2 2 BSSCC 03 06 Hold (0 or 1) Hold

BSSCC: T1 (E&M Tie) Channel Position
B=Cabinet no. 1-6
SS=Slot no. 01-12
CC=Channel no. 01-24

0=Do not send simulated CO dial tone to extension. (default)

1=Send simulated CO dial tone to extension.

Notes:

Set to "1" (Send) if the CO doesn't support dial tone (typical in U.K.).

Related Programming:

Trunk Signal Type (pg. 2-116) **FF2 2 BSSCC 02 00 Hold (0-5) Hold**

SMDR for Outbound Calls

BSSCC-0307:1
SMDR Output/Out

(all CPCs) - Version 1.0 or higher

Set whether ***outbound*** calls on the T1 channel will be included in SMDR records.

FF2 2 BSSCC 03 07 Hold (0 or 1) Hold

BSSCC: T1 (E&M Tie) Channel Position
B=Cabinet no. 1-6
SS=Slot no. 01-12
CC=Channel no. 01-24

0=Do not include in SMDR.

1=Include in SMDR. (default)

Notes:

Related Programming:

Call Logging Data to Serial Port (pg. 1-102) FF1 0 06 0001 Hold (0-2) Hold
Call Logging Output Format (pg. 1-107) FF1 0 09 0001 Hold (0-2) Hold

SMDR for Inbound Calls

BSSCC-0308:0
SMDR Output/In

(all CPCs) - Version 1.0 or higher

Set whether ***incoming*** calls on the T1 channel will be included in SMDR records.

FF2 2 BSSCC 03 08 Hold (0 or 1) Hold

FF2
Exchange

BSSCC: T1 (E&M Tie) Channel Position
B=Cabinet no. 1-6
SS=Slot no. 01-12
CC=Channel no. 01-24

0=Do not include in SMDR. (default)
1=Include in SMDR.

Notes:

Related Programming:

Call Logging Data to Serial Port (pg. 1-102) FF1 0 06 0001 Hold (0-2) Hold
Call Logging Output Format (pg. 1-107) FF1 0 09 0001 Hold (0-2) Hold

Flash Key Operation

BSSCC-0309:0
Flash Control

(all CPCs) - Version 1.0 or higher

Set what happens when a digital phone user presses the FLASH, PROG or Recall key during a call on this T1 channel.

FF2 2 BSSCC 03 09 Hold (0 or 1) Hold

BSSCC: T1 (E&M Tie) Channel Position
B=Cabinet no. 1-6
SS=Slot no. 01-12
CC=Channel no. 01-24

0=Flash signal is sent to CO. (default)
1=T1 channel is released, then user hears internal dial tone.

Notes:

The sending of the flash signal can also be enabled/disabled on individual extensions (see **Flash Signal Control** on pg. 3-19).

❒ If the flash signal is disabled on the trunk but enabled on the extension (or vice versa), a flash signal ***will be sent*** when the user accesses the trunk and presses FLASH.

(all CPCs - Version 1.3 and higher) If this address is set to **0=Flash signal is sent to CO (default),** it will also apply to an FF-key programmed for the SLT Flash Send feature (765 by default). See **Dial Plans A and B** on pg. 1-168.

Related Programming:

Flash Signal Control (pg. 3-19) FF3 0 BSSC 04 21 Hold (0 or 1) Hold
Dial Plan A: Flexible Feature Codes at Dial Tone (pg. 1-168) FF1 2 02 (0001-0056) Hold (max. 4-digit Code) Hold
Dial Plan B: Flexible Feature Codes at Dial Tone (pg. 1-170) FF1 2 03 (0001-0056) Hold (max. 4-digit Code) Hold

Not Used

(all CPCs) - Version 1.0 or higher

FF2 2 BSSCC 03 10 Hold — **BSSCC-0310: Not Used**

FF2 2 BSSCC 03 11 Hold — **BSSCC-0311: Not Used**

FF2 2 BSSCC 03 12 Hold — **BSSCC-0312: Not Used**

DTMF Conversion (Outbound Calls)

BSSCC-0313:1 PB Convert/Out

(all CPCs) - Version 1.0 or higher

Set whether the T1 channel will switch from dial-pulse to DTMF signaling after the called party answers an outgoing call, according to the **Call Duration Timer.**

FF2 2 BSSCC 03 13 Hold (0 or 1) Hold

BSSCC: T1 (E&M Tie) Channel Position
B=Cabinet no. 1-6
SS=Slot no. 01-12
CC=Channel no. 01-24

0=Do not switch to DTMF signaling.

1=Switch to DTMF signaling after the called (outside) party answers. (default)

Notes:

Related Programming:

Call Duration Timer (Private Line) (pg. 1-131) FF1 1 01 0006 Hold (1-255) Hold
DTMF/Dial Pulse Dialing (pg. 2-124) FF2 2 BSSCC 03 00 Hold (0 or 1) Hold

DTMF Conversion (Inbound Calls)

BSSCC-0314:1
PB Convert/In

(all CPCs) - Version 1.0 or higher

Set whether the T1 channel will switch from dial-pulse to DTMF signaling after the extension user answers an incoming call.

FF2 2 BSSCC 03 14 Hold (0 or 1) Hold

BSSCC: T1 (E&M Tie) Channel Position
B=Cabinet no. 1-6
SS=Slot no. 01-12
CC=Channel no. 01-24

0=Do not switch to DTMF signaling.

1=Switch to DTMF signaling after the extension user answers. (default)

FF2
Exchange

Notes:

Related Programming:

DTMF/Dial Pulse Dialing (pg. 2-124) **FF2 2 BSSCC 03 00 Hold (0 or 1) Hold**

Indirect LCR

BSSCC-0315:0
Indirect LCR

(all CPCs) - Version 1.0 or higher

(U.K. use only) Enable/Disable the Indirect Least Cost Routing (LCR) function on the T1 channel.

FF2 2 BSSCC 03 15 Hold (0 or 1) Hold

BSSCC: T1 (E&M Tie) Channel Position
B=Cabinet no. 1-6
SS=Slot no. 01-12
CC=Channel no. 01-24

0=Disable Indirect LCR. (default)

1=Enable Indirect LCR.

Notes:

Indirect LCR: System will send a pre-assigned code (set in the ARS Dial Conversion Tables) when an extension seizes the trunk to make an outgoing call. This feature is used in the U.K. for sending a system identification PIN number to the CO.

U.S.A.: Do not enable this address for MCO access code routing (eg., dialing "9" to get an outside line). Instead, use ARS tables (see FF6) so the system can distinguish intercom calls from outgoing calls.

Related Programming:

FF6 2 05: Digit Modify Table (pg. 6-40)

Not Used

(all CPCs) - Version 1.0 or higher

FF2 2 BSSCC 03 16 Hold

BSSCC-0316: Not Used

FF2 2 BSSCC 03 17 Hold

BSSCC-0317: Not Used

FF2 2 BSSCC 03 18 Hold

BSSCC-0318: Not Used

Day1 Ring Type

BSSCC-040 :0 Day1 Ring Type

(all CPCs) - Version 1.0 or higher

Set ring type for incoming calls on the T1 channel during Day1 mode.

FF2 2 BSSCC 04 0 Hold (0 or 1) Hold

BSSCC: T1 (E&M Tie) Channel Position
B=Cabinet no. 1-6
SS=Slot no. 01-12
CC=Channel no. 01-24

0=Tie Incoming. (default) Check digits and ring the extension or page.

1=Tandem. Check digits based on Tandem Table.

Notes:

Related Programming:

FF6 2 08: Tandem Exchange Table (pg. 6-47)

Not Used

(all CPCs) - Version 1.0 or higher

FF2 2 BSSCC 04 1 Hold

BSSCC-041 : Not Used

Day2 Ring Type

BSSCC-042:0
Day2 Ring Type

(all CPCs) - Version 1.0 or higher

Set ring type for incoming calls on the T1 channel during Day2 mode.

FF2 2 BSSCC 04 2 Hold (0 or 1) Hold

BSSCC: T1 (E&M Tie) Channel Position
B=Cabinet no. 1-6
SS=Slot no. 01-12
CC=Channel no. 01-24

0=Tie Incoming. (default) Check digits and ring the extension or page.

1=Tandem. Check digits based on Tandem Table.

FF2
Exchange

Notes:

Related Programming:

FF6 2 08: Tandem Exchange Table (pg. 6-47)

Not Used

(all CPCs) - Version 1.0 or higher

FF2 2 BSSCC 04 3 Hold

BSSCC-043:
Not Used

Night Ring Type

(all CPCs) - Version 1.0 or higher

BSSCC-044:0
Night Ring Type

Set ring type for incoming calls on the T1 channel during Night mode.

FF2 2 BSSCC 04 4 Hold (0 or 1) Hold

BSSCC: T1 (E&M Tie) Channel Position
B=Cabinet no. 1-6
SS=Slot no. 01-12
CC=Channel no. 01-24

0=Tie Incoming. (default) Check digits and ring the extension or page.

1=Tandem. Check digits based on Tandem Table.

FF2
Exchange

Notes:

Related Programming:

FF6 2 08: Tandem Exchange Table (pg. 6-47)

Not Used

(all CPCs) - Version 1.0 or higher

FF2 2 BSSCC 04 5 Hold

BSSCC-045:
Not Used

Not Used

(all CPCs) - Version 1.0 or higher

FF2	**2**	**BSSCC**	**05**	**0**	**Hold**	**BSSCC-050: Not Used**
FF2	**2**	**BSSCC**	**05**	**1**	**Hold**	**BSSCC-051: Not Used**
FF2	**2**	**BSSCC**	**05**	**2**	**Hold**	**BSSCC-052: Not Used**
FF2	**2**	**BSSCC**	**05**	**3**	**Hold**	**BSSCC-053: Not Used**
FF2	**2**	**BSSCC**	**05**	**4**	**Hold**	**BSSCC-054: Not Used**
FF2	**2**	**BSSCC**	**05**	**5**	**Hold**	**BSSCC-055: Not Used**

FF2
Exchange

Tenant Group Assignment

BSSCC-06 :0
Tenant Group

(all CPCs) - Version 1.0 or higher

Assign the T1 channel to a Tenant Group, which will apply when the T1 channel originates an outbound call (such as DISA).

FF2 2 BSSCC 06 Hold (0-72) Hold

BSSCC: T1 (E&M Tie) Channel Position
B=Cabinet no. 1-6
SS=Slot no. 01-12
CC=Channel no. 01-24

Tenant Group No. --
with a CPC-96: Tenant Groups 01-12
with a CPC-288: Tenant Groups 01-36
with a CPC-576: Tenant Groups 01-72

default: 0 [no assignment]

Notes:

Related Programming:

MOH Source for Private Lines (pg. 1-111) **FF1 0 13 (0001-0072) Hold (0-3) Hold**

TRS Class Assignment (Day)

BSSCC-070:1
Day1/2 TRS CLS

(all CPCs) - Version 1.0 or higher

Assign a Toll Restriction Service (TRS) Class to the T1 channel, applicable during Day1 and Day2 modes when the channel is the originator of an outbound call (such as DISA).

FF2 2 BSSCC 07 0 Hold (1-50) Hold

BSSCC: T1 (E&M Tie) Channel Position
B=Cabinet no. 1-6
SS=Slot no. 01-12
CC=Channel no. 01-24

TRS Class No. 1-50 for Day Mode
default: 1

FF2
Exchange

Notes:

Related Programming:

FF6 1: TRS Class Definitions (pg. 6-16)

TRS Class Assignment (Night)

BSSCC-071: 1
Night TRS CLS

(all CPCs) - Version 1.0 or higher

Assign a Toll Restriction Service (TRS) Class to the T1 channel, applicable during Night mode when the channel is the originator of an outbound call (such as DISA).

FF2 2 BSSCC 07 1 Hold (1-50) Hold

BSSCC: T1 (E&M Tie) Channel Position
B=Cabinet no. 1-6
SS=Slot no. 01-12
CC=Channel no. 01-24

TRS Class No. 1-50 for Night Mode
default: 1

Notes:

Related Programming:

FF6 1: TRS Class Definitions (pg. 6-16)

Trunk COS Assignment

BSSCC-08 :1
Trunk COS

(all CPCs) - Version 1.0 or higher

Assign a Trunk Class of Service (COS) to the T1 channel.

FF2 2 BSSCC 08 Hold (1-16) Hold

BSSCC: T1 (E&M Tie) Channel Position
B=Cabinet no. 1-6
SS=Slot no. 01-12
CC=Channel no. 01-24

Trunk Class of Service No. 1-16
default: 1

FF2
Exchange

Notes:

This **Trunk COS Assignment** controls the ring tone for incoming calls on this trunk - intercom ring tone (2 short beeps followed by 3 seconds of silence), or a specific ring pattern. The Trunk COS also controls various tie-line network settings. See **FF1 0 04: Exchange Line COS Definitions (pg. 1-88)**.

Related Programming:

Exchange Line COS: Incoming Ring Tone Source (pg. 1-88) FF1 0 04 (00-15) 01 Hold (0 or 1) Hold
Exchange Line COS: Dial Tone to Private Line (pg. 1-89) FF1 0 04 (00-15) 02 Hold (0 or 1) Hold
Exchange Line COS: Fast-Busy Tone to Private Line (pg. 1-90) FF1 0 04 (00-15) 03 Hold (0 or 1) Hold
Exchange Line COS: Paging on DISA/Private Line Call (pg. 1-92) FF1 0 04 (00-15) 05 Hold (0 or 1) Hold
Ring Pattern (pg. 2-121) FF2 2 BSSCC 02 09 Hold (0-12) Hold

Trunk Digital Pad Class Assignment

BSSCC-09 :7
Trunk DPAD CLS

(all CPCs) - Version 1.0 or higher

Assign a Digital Pad Class to the T1 channel.

FF2 2 BSSCC 09 Hold (1-16) Hold

BSSCC: T1 (E&M Tie) Channel Position
B=Cabinet no. 1-6
SS=Slot no. 01-12
CC=Channel no. 01-24

Trunk Digital Pad Class No. 1-16
default: 7

Notes:

Based on this setting, you can assign automatic volume adjustments for different connection types to this T1 channel (see FF1 8 02).

Related Programming:

Digital Pad Settings for Exchange Line Pad Class (pg. 1-195) FF1 8 02 (0001-0480) Hold (0-31) Hold

3. Extension Programming (FF3)

Use the FF3 addresses in this chapter to set parameters for extensions in the ICX phone system:

FF3 0: Digital Keyphones and SLTs
FF3 1: S-Point ISDN Extensions
FF3 2: Virtual Ports
FF3 3: RAI Extension Port

This chapter covers the following FF3 addresses:

FF3 0 BSSC 04 22 Hold (0 or 1) Hold	Variable Mode Release	0 (Release)	3-20
FF3 0 BSSC 04 23 Hold (0 or 1) Hold	MCO Prime Line	0 (Disabled)	3-21
FF3 0 BSSC 04 24 Hold (0 or 1) Hold	Forced Account Codes	0 (Not Forced)	3-21
FF3 0 BSSC 04 25 Hold (0 or 1) Hold	Verified Account Codes	0 (Unverified)	3-22
FF3 0 BSSC 04 26 Hold	Not Used	--	3-23
FF3 0 BSSC 04 27 Hold (0 or 1) Hold	Hot Dial Pad	1 (Enabled)	3-23
FF3 0 BSSC 05 Hold (1-72) Hold	Tenant Group Assignment	1	3-24
FF3 0 BSSC 06 0 Hold (1-50) Hold	TRS Class Assignment (Day)	1	3-25
FF3 0 BSSC 06 1 Hold (1-50) Hold	TRS Class Assignment (Night)	1	3-25
FF3 0 BSSC 07 Hold (1-16) Hold	Extension COS Assignment	1	3-26
FF3 0 BSSC 08 Hold (1-8) Hold	Extension Digital Pad Class Assignment	1 (Analog) 3 (Digital)	3-26
FF3 0 BSSC 09 Hold (1 or 2) Hold	Dial Plan Assignment	1 (Plan “A”)	3-27
FF3 1: S-Point ISDN Extensions			**3-28**
FF3 1 BSS1 00 0 Hold (BSSC) Hold	Common D-Channel Position	--	3-28
FF3 1 BSS1 00 1 Hold (1-127) Hold	D-Channel Interface ID Code	--	3-29
FF3 1 BSSC 01 Hold (0-9999) Hold	Extension Number Assignment	--	3-29
FF3 1 BSSC 02 00 Hold (0 or 1) Hold	Connection Type	0 (Point-to-Point)	3-30
FF3 1 BSSC 02 01 Hold (0 or 1) Hold	Passive Bus	0 (Short Loop)	3-30
FF3 1 BSSC 02 02 Hold (0 or 1) Hold	Layer 1 Operate Mode	0 (Active)	3-31
FF3 1 BSSC 02 03 Hold	Not Used	--	3-31
FF3 1 BSSC 03 00 Hold (0 or 1) Hold	B-Channel Select	0 (Highest-no.’d)	3-32
FF3 1 BSSC 03 01 Hold (0 or 1) Hold	B-Channel Numbering (Layer 3)	1 (Channel no.’g)	3-32
FF3 1 BSSC 03 02 Hold (0 or 1) Hold	Call ID Length	0 (1byte/BRI) 1 (2byte/PRI)	3-33
FF3 1 BSSC 03 03 Hold (0 or 1) Hold	Called Number Indication	0 (no indication)	3-34
FF3 1 BSSC 03 04 Hold (0 or 1) Hold	Called Sub-Address Indication	0 (no indication)	3-34
FF3 1 BSSC 03 05 Hold	Not Used	--	3-35
FF3 1 BSSC 03 06 Hold (0 or 1) Hold	Progress Tone	1 (Send)	3-35
FF3 1 BSSC 03 07 Hold (0 or 1) Hold	Data Security	0 (Off)	3-35
FF3 1 BSSC 03 08 Hold	Not Used	--	3-36
FF3 1 BSSC 04 Hold (1-72) Hold	Tenant Group Assignment	1	3-36
FF3 1 BSSC 05 0 Hold (1-50) Hold	TRS Class Assignment (Day)	1	3-37
FF3 1 BSSC 05 1 Hold (1-50) Hold	TRS Class Assignment (Night)	1	3-37
FF3 1 BSSC 06 Hold (1-16) Hold	Extension COS Assignment	1	3-38
FF3 1 BSSC 07 0 Hold (1-8) Hold	Extension Digital Pad Class Assignment	5	3-38
FF3 1 BSSC 08 Hold (1 or 2) Hold	Dial Plan Assignment	1 (Plan “A”)	3-39
FF3 2: Virtual Ports			**3-40**
FF3 2 (001-576) 00 Hold (0-9999) Hold	Extension Number Assignment	--	3-40
FF3 2 (001-576) 01 00 Hold (1-6) Hold	Ring Frequency	1 (400/562Hz)	3-41
FF3 2 (001-576) 01 01 Hold (1-12) Hold	Ring Pattern	1 (1on/2off)	3-42
FF3 2 (001-576) 02 Hold (1-72) Hold	Tenant Group Assignment	1	3-43
FF3 2 (001-576) 03 Hold (1-16) Hold	Extension COS Assignment	1	3-44
FF3 3: RAI Extension Port			**3-45**
FF3 3 00 Hold (0-9999) Hold	RAI Extension Number Assignment	699	3-45
FF3 3 01 Hold (1-72) Hold	Tenant Group Assignment	1	3-45
FF3 3 02 Hold (1-16) Hold	Extension COS Assignment	1	3-46

FF3 0: Digital Keyphones and SLTs

Phone Type

BSSC-00 :1
Phone Type

(all CPCs) - Version 2.0 or higher

Define the type of phone at the extension port.

FF3 0 BSSC 00 Hold (1-3) Hold

BSSC: Extension Port Position -
B=CCU 1-6
SS=Slot 01-12
C=Circuit 1-8

1=Digital Keyphone or SLT (default)
2=EM/24
3=DSS/72

Notes:

The setting **"1=Digital Keyphone or SLT" (default)** is automatically detected by the system when the phone is plugged into the port.

DSS/72 consoles and EM/24 units require their own port, separate from the phone. To match them to a phone, give both ports the same **Extension Number Assignment (pg. 3-4)**. Up to five (5) DSS/72 consoles can be attached to a digital keyphone. EM/24 units are limited to one (1) per digital keyphone.

There is no limit on how many EM/24s can be included in a system, other than the number of ports available in the system. The maximum number of DSS/72 assignments is determined by the CPC used and the number of CCUs specified in programming (see **0: System Configuration**):

CPC INSTALLED		NO. OF CCUS SPECIFIED IN PROGRAMMING					
(shaded cells not available with this CPC)	CPC-96:	1	2	3	4	5	6
	CPC-288:	1	2	3	4	5	6
	CPC-576:	1	2	3	4	5	6
max. no. of DSS/72s:		12	24	36	48	60	72

DSS/72s and EM/24s can have Automatic BLF key assignments, if FF1 0 01 0020 (pg. 1-19) is enabled first.

Related Programming:

Extension Number Assignment (pg. 3-4) **FF3 0 BSSC 02 Hold (0-9999) Hold**
Automatic BLF on DSS and EM/24 Units (pg. 1-19) **FF1 0 01 0020 Hold (0 or 1) Hold**

Phone Version (Digital Keyphones)

BSSC-01 : KTEL Type

(all CPCs) - Version 2.0 or higher

Define the version of the digital keyphone (if present) at the extension port.

FF3 0 BSSC 01 Hold (1-5) Hold

BSSC: Extension Port Position -
B=CCU 1-6
SS=Slot 01-12
C=Circuit 1-8

1=Digital Keyphone
2=Digital Keyphone
3=Digital Keyphone
4=Digital Keyphone
5=Digital SLT

defaults: (see Notes below)

Notes:

FF3 Extensions

These phone versions include digital keyphones, EM/24s, and DSS/72s.

Only Digital SLTs require this setting (set to "5"). For settings "1-4=Digital Keyphone", the system will automatically detect the phone type when you re-plug the station cable.

If this address is set to "5=Digital SLT" and a digital keyphone is later plugged into the station, you must reset this address to 1, 2, 3, or 4.

If an analog SLT phone is plugged in, this address will display a "0" setting for the station.

Related Programming:

Extension Number Assignment

BSSC-02 : EXT Number

(all CPCs) - Version 2.0 or higher

Assign an extension number (0-9999) to the extension port.

(or BLK-DOWN)

FF3 0 BSSC 02 Hold (0-9999) Hold

BSSC: Extension Port Position -
B=CCU 1-6
SS=Slot 01-12
C=Circuit 1-8

Extension Number (0-9999)

default: [no assignment]

Notes:

Press soft key #10 (BLK_DOWN) instead of the last HOLD in the above address, to scroll to the next BSSC extension port position and assign it an Extension Number (stay in same address).

DSS/72 consoles and EM/24 units require their own port, separate from the phone. To match them to a phone, assign the same **Extension Number** to both ports. Up to five (5) DSS/72 consoles can be attached to a digital keyphone. EM/24 units are limited to one (1) per digital keyphone.

There is no limit on how many EM/24s can be included in a system, other than the number of ports available in the system. The maximum number of DSS/72 assignments is determined by the CPC used and the number of CCUs specified in programming (see **0: System Configuration**):

CPC INSTALLED		NO. OF CCUS SPECIFIED IN PROGRAMMING					
(shaded cells not available with this CPC)	CPC-96:	1	2	3	4	5	6
	CPC-288:	1	2	3	4	5	6
	CPC-576:	1	2	3	4	5	6
max. no. of DSS/72s:		12	24	36	48	60	72

To view Extension Port/Number assignments in normal operating mode, you must first program an FF-key with the Extension Port Confirm feature code, *59. See FF4 addresses starting on pg. 4-7 for programming instructions.

Related Programming:

Phone Type (pg. 3-3) **FF3 0 BSSC 00 Hold (1-3) Hold**

SLT Hookflash

BSSC-030 :0
SLT HK Control

(all CPCs) - Version 2.0 or higher

Set whether the system will recognise a hookflash on an SLT phone as placing the call on hold.

FF3 0 BSSC 03 0 Hold (0 or 1) Hold

BSSC: Extension Port Position -
B=CCU 1-6
SS=Slot 01-12
C=Circuit 1-8

0=Detect SLT hookflash. (default)
1=Ignore SLT hookflash.

Notes:

Set this address to **"0=Detect" (default)** to be able to transfer or make conference calls. Set it to "1=Ignore" to avoid unexpected call holding.

Related Programming:

SLT On-Hook Detection Timer (pg. 3-6) **FF3 0 BSSC 03 2 Hold (0-3) Hold**
SLT Hookflash Timer (pg. 3-7) **FF3 0 BSSC 03 3 Hold (0-3) Hold**
Extension COS: Brokers Hold on SLTs (pg. 1-43) **FF1 0 03 (00-15) 07 Hold (0 or 1) Hold**
Extension COS: Hookflash Control on SLTs (pg. 1-44) **FF1 0 03 (00-15) 08 Hold (0 or 1) Hold**

SLT Dial Type

BSSC-031 :1
SLT Type DP/PB

(all CPCs) - Version 2.0 or higher

Set the dial signalling type for SLT phones.

FF3 0 BSSC 03 1 Hold (0 or 1) Hold

BSSC: Extension Port Position -
B=CCU 1-6
SS=Slot 01-12
C=Circuit 1-8

0=Dial pulse
1=DTMF (default)

Notes:

FF3 Extensions

Related Programming:

SLT On-Hook Detection Timer

BSSC-032 :0
SLT ON-HK Timer

(all CPCs) - Version 2.0 or higher

Set minimum on-hook time (how long hookswitch must be held down) before the system disconnects the call. The setting value depends on the setting in **SLT Hookflash (pg. 3-5)** ("Detect" or "Ignore").

FF3 0 BSSC 03 2 Hold (0-3) Hold

BSSC: Extension Port Position -
B=CCU 1-6
SS=Slot 01-12
C=Circuit 1-8

	Flash Detect	Flash Ignore
0	**240 ms**	**160 ms *(default-U.K.)***
1	**1008 ms**	**112 ms *(default-USA)***
2	1200 ms	208 ms
3	1504 ms	304 ms

Notes:

If the hookswitch is held down for less than this timer, but longer than the **SLT Hookflash Timer** (see next address), the system will recognise it as a hookflash.

Related Programming:

SLT Hookflash (pg. 3-5) **FF3 0 BSSC 03 0 Hold (0 or 1) Hold**
SLT Hookflash Timer (pg. 3-7) **FF3 0 BSSC 03 3 Hold (0-3) Hold**

SLT Hookflash Timer

BSSC-033 :0
SLT Hooking TM

(all CPCs) - Version 2.0 or higher

Set minimum on-hook time (how long hookswitch must be held down) before the system recognises it as a hookflash.

FF3 0 BSSC 03 3 Hold (0-3) Hold

BSSC: Extension Port Position -
B=CCU 1-6
SS=Slot 01-12
C=Circuit 1-8

0=80-176 ms ***(default-U.K.)***
1=96-176 ms
2=208 ms ***(default-USA)***
3=208 ms

Notes:

If the hookswitch is held down for less than this timer, system will ignore the hookflash.

If the hookswitch is held down for longer than this timer, but shorter than the **SLT On-Hook Detection Timer** (see previous address), system will recognise it as a hookflash.

Related Programming:

SLT Hookflash (pg. 3-5) **FF3 0 BSSC 03 0 Hold (0 or 1) Hold**
SLT On-Hook Detection Timer (pg. 3-6) **FF3 0 BSSC 03 2 Hold (0-3) Hold**

Not Used

(all CPCs) - Version 2.0 or higher

FF3 0 BSSC 03 4 Hold

BSSC-034 :
Not Used

Auto Answer (Handset)

BSSC-0400:1
Auto Answer

(all CPCs) - Version 2.0 or higher

Set whether the exchange-line key must be pressed to answer an incoming call, or whether the call can be answered by simply picking up the handset.

FF3 0 BSSC 04 00 Hold (0 or 1) Hold

BSSC: Extension Port Position -
B=CCU 1-6
SS=Slot 01-12
C=Circuit 1-8

0=Pick up handset *AND* press exchange-line key.

1=Pick up handset only. (default)

Notes:

FF3
Extensions

Related Programming:

Ringing Line Preference (ON/OFF)

BSSC-0401:0
Ring PREF ON/OFF

(all CPCs) - Version 2.0 or higher

Set whether the exchange-line key must be pressed to answer an incoming call, or if the call can be answered by pressing ON/OFF.

FF3 0 BSSC 04 01 Hold (0 or 1) Hold

BSSC: Extension Port Position -
B=CCU 1-6
SS=Slot 01-12
C=Circuit 1-8

0=Must press exchange-line key to pick up call. (default)

1=Simply press ON/OFF to pick up the call.

Notes:

Related Programming:

Slide Ringing Receive

BSSC-0402:0
Slide Ringing

(all CPCs) - Version 2.0 or higher

Enable/Disable the extension for receiving a Slide Ringing call.

FF3 0 BSSC 04 02 Hold (0 or 1) Hold

BSSC: Extension Port Position -
B=CCU 1-6
SS=Slot 01-12
C=Circuit 1-8

0=Do not allow Slide Ringing receive. (default)
1=Allow Slide Ringing receive.

Notes:

Slide Ringing: An unanswered exchange-line call begins ringing on other extensions with a line appearance (FF-key) for that exchange-line (equivalent to delayed ringing on an MCO key).

Related Programming:

Slide Ringing (pg. 2-25) on analog exchange lines FF2 0 BSSC 02 14 Hold (0 or 1) Hold
Slide Ringing (pg. 2-69) on ISDN exchange lines FF2 1 BSSC 03 07 Hold (0 or 1) Hold
Slide Ringing (pg. 2-102) on T1-CO trunks FF2 2 BSSCC 03 12 Hold (0 or 1) Hold
Slide Ring/Alarm Ring Timer (Day1) (pg. 1-145) FF1 1 02 0007 Hold (0-255) Hold
Slide Ring/Alarm Ring Timer (Day2) (pg. 1-146) FF1 1 02 0008 Hold (0-255) Hold
Slide Ring/Alarm Ring Timer (Night) (pg. 1-146) FF1 1 02 0009 Hold (0-255) Hold

Busy Override on Exchange-Line Key

BSSC-0403:0
CO-Key Override

(all CPCs) - Version 2.0 or higher

Enable/Disable the extension's ability to barge into an exchange-line call by pressing the exchange-line FF-key.

FF3 0 BSSC 04 03 Hold (0 or 1) Hold

BSSC: Extension Port Position -
B=CCU 1-6
SS=Slot 01-12
C=Circuit 1-8

0=Do not allow Busy Override on exchange-line key. (default)
1=Allow Busy Override on exchange-line key.

Notes:

The extension must have a Direct Exchange-Line appearance (an MCO line appearance won't work).

Related Programming:

FF-Key Feature Assignment (Digital Keyphones, SLTs, EM/24s) (pg. 4-7) FF4 0 BSSC 0 (01-32) Hold FL/R (Code) Hold

Auto Camp-On Receive

BSSC-0404:0
Auto Camp-On

(all CPCs) - Version 2.0 or higher

Enable/Disable the ability of other extensions to automatically "camp" onto this (busy) extension simply by calling it.

FF3 0 BSSC 04 04 Hold (0 or 1) Hold

BSSC: Extension Port Position -
B=CCU 1-6
SS=Slot 01-12
C=Circuit 1-8

0=Do not allow Auto Camp-On Receive. (default)

1=Allow Auto Camp-On Receive.

Notes:

FF3
Extensions

Related Programming:

Extension COS: Manual Camp-On Send (pg. 1-64) FF1 0 03 (00-15) 28 Hold (0 or 1) Hold
Extension COS: Manual Camp-On Receive (pg. 1-65) FF1 0 03 (00-15) 29 Hold (0 or 1) Hold

Public Exchange Off-Hook Signal

BSSC-0405:1
Off-Hook Signal

(all CPCs) - Version 2.0 or higher

Set whether the extension phone will indicate a second multiple-incoming call while the first call is ringing on the exchange-line key.

FF3 0 BSSC 04 05 Hold (0 or 1) Hold

BSSC: Extension Port Position -
B=CCU 1-6
SS=Slot 01-12
C=Circuit 1-8

0=Do not ring for another multiple-incoming call.

1=Ring for another multiple-incoming call. (default)

Notes:

Digital keyphones indicate a second multiple-incoming call with a "beep" on-speaker. SLT phones "beep" in the receiver.

Multiple Incoming: An incoming exchange-line call can ring on multiple extensions that have an FF-key line appearance for it (see **Exchange-Line FF-Key** addresses in FF4).

The destination extensions for receiving **Multiple Incoming** exchange-line calls are assigned in FF4.

Related Programming:

Exchange-Line FF-Key ...

Outbound Call Restriction (pg. 4-10) FF4 0 BSSC 1 (01-32) Hold CONF (0 or 1) Hold
Inbound Answer Restriction (pg. 4-11) FF4 0 BSSC 1 (01-32) Hold CONF Hold (0 or 1) Hold
Day1 Ringing (pg. 4-11) FF4 0 BSSC 1 (01-32) Hold CONF Holdx2 (0 or 1) Hold
Day2 Ringing (pg. 4-12) FF4 0 BSSC 1 (01-32) Hold CONF Holdx3 (0 or 1) Hold
Night Ringing (pg. 4-12) FF4 0 BSSC 1 (01-32) Hold CONF Holdx4 (0 or 1) Hold
No-Ring Auto Answer (pg. 4-13) FF4 0 BSSC 1 (01-32) Hold CONF Holdx5 (0 or 1) Hold

SLT Voice Mail Connection

BSSC-0406:0
VoiceMail Port

(all CPCs) - Version 2.0 or higher

Set whether an SLT extension is connected to 3rd-Party Voice Mail.

FF3 0 BSSC 04 06 Hold (0 or 1) Hold

BSSC: Extension Port Position -
B=CCU 1-6
SS=Slot 01-12
C=Circuit 1-8

0=This SLT extension *is not* a voice mail port. (default)

1=This SLT extension *is* a voice mail port.

Notes:

Related Programming:

Loop (AEC) Disconnect Signal for VM (pg. 3-19) FF3 0 BSSC 04 20 Hold (0 or 1) Hold
Extension COS Assignment (pg. 3-26) FF3 0 BSSC 07 Hold (1-16) Hold
FF1 0 23 and 24: Voice Mail Codes (pg. 1-122)
Call-Forward ID Codes for Voice Mail (pg. 8-51) FF8 1 05 Hold Hold (0-9999) Hold FL/R (up to 16 char.) Hold
Extension COS: Priority Message-Waiting Send (VM) (pg. 1-60) FF1 0 03 (00-15) 24 Hold (0 or 1) Hold

SLT Fixed Ring Pattern

BSSC-0407:0
Fixed Ring-SLT

(all CPCs) - Version 2.0 or higher

Set whether an SLT's ring pattern for incoming calls is fixed (same pattern always) or is different for each call type (recall, intercom, exchange-line, etc.).

FF3 0 BSSC 04 07 Hold (0 or 1) Hold

BSSC: Extension Port Position -
B=CCU 1-6
SS=Slot 01-12
C=Circuit 1-8

0=Different ring patterns for receiving different call types. (default)

1=Fixed ring pattern for receiving all call types (1 second on / 3 seconds off).

Notes:

FF3
Extensions

Related Programming:

End-to-End Signalling

BSSC-0408:1
Auto PB Convert

(all CPCs) - Version 2.0 or higher

Set whether an SLT extension port will receive DTMF signals from a digital keyphone extension port.

FF3 0 BSSC 04 08 Hold (0 or 1) Hold

BSSC: Extension Port Position -
B=CCU 1-6
SS=Slot 01-12
C=Circuit 1-8

0=Do not receive DTMF from digital keyphone.

1=Receive DTMF from digital keyphone. (default)

Notes:

This address must be set to **"1=Receive DTMF" (default)** if the SLT port is for Voice Mail, an answering machine, etc. (any device requiring DTMF signalling).

Related Programming:

Message Waiting LED

BSSC-0409:1
MW LED Control

(all CPCs) - Version 2.0 or higher

Enable/Disable Message Waiting LED on the extension for messages received from other extensions.

FF3 0 BSSC 04 09 Hold (0 or 1) Hold

BSSC: Extension Port Position -
B=CCU 1-6
SS=Slot 01-12
C=Circuit 1-8

0=Disable Message Waiting LED.

1=Enable Message Waiting LED. (default)

Notes:

Even if this is set to "0=Disable," the phone's LCD display will indicate the Message-Waiting.

(all CPCs - Version 2.5 and higher) Message-Waiting can now be sent during a Voice call without first having to switch to Tone calling.

Related Programming:

Extension COS: Message-Waiting Send (pg. 1-61) **FF1 0 03 (00-15) 25 Hold (0 or 1) Hold**

Data Security

BSSC-0410:0
Data Security

(all CPCs) - Version 2.0 or higher

Enable/Disable interruptions such as Busy Override-Receive on this extension.

FF3 0 BSSC 04 10 Hold (0 or 1) Hold

BSSC: Extension Port Position -
B=CCU 1-6
SS=Slot 01-12
C=Circuit 1-8

0=Allow interruptions on this extension. (default)

1=Do not allow interruptions.

Notes:

Set this address to "1=Do not allow interruptions" to protect data transmission.

Related Programming:

Large-LCD Fixed Menu Display During Idle

BSSC-0411:1
Idle Screen Set

(all CPCs) - Version 2.0 or higher

Set whether a Large-LCD phone's display will return to the "Idle" Fixed Feature Code menu screen when the phone returns to idle.

FF3 0 BSSC 04 11 Hold (0 or 1) Hold

BSSC: Extension Port Position -
B=CCU 1-6
SS=Slot 01-12
C=Circuit 1-8

0=Do not allow return to "Idle" Fixed menu.

1=Allow return to "Idle" Fixed menu. (default)

Notes:

This address applies only to handset off-hook calls (doesn't apply to ON/OFF key).

FF3 Extensions

If "0=Do not allow" is set, the first page of the directory selected will appear when the user hangs up.

If **"1=Allow" (default)** is set, the phone will automatically return to the Fixed Idle menu each time the user hangs up. To select a different menu for idle, the end-user can display the desired menu and press:

ON/OFF PROG ## ON/OFF

Related Programming:

Exchange-Line Key Operation: Direct Calls

BSSC-0412:1
CO Key OPT 1

(all CPCs) - Version 2.0 or higher

Enable/Disable the extension's ability to seize an exchange line by pressing the FF-key for it while the phone is ringing for an incoming call.

FF3 0 BSSC 04 12 Hold (0 or 1) Hold

BSSC: Extension Port Position -
B=CCU 1-6
SS=Slot 01-12
C=Circuit 1-8

0=Seize exchange line.
1=Ignore key press. (default)

Notes:

The incoming call can be an intercom call, DDI, DISA, DL, etc.

Related Programming:

Exchange-Line FF-Key ...

Outbound Call Restriction (pg. 4-10) FF4 0 BSSC 1 (01-32) Hold CONF (0 or 1) Hold
Inbound Answer Restriction (pg. 4-11) FF4 0 BSSC 1 (01-32) Hold CONF Hold (0 or 1) Hold
Day1 Ringing (pg. 4-11) FF4 0 BSSC 1 (01-32) Hold CONF Holdx2 (0 or 1) Hold
Day2 Ringing (pg. 4-12) FF4 0 BSSC 1 (01-32) Hold CONF Holdx3 (0 or 1) Hold
Night Ringing (pg. 4-12) FF4 0 BSSC 1 (01-32) Hold CONF Holdx4 (0 or 1) Hold
No-Ring Auto Answer (pg. 4-13) FF4 0 BSSC 1 (01-32) Hold CONF Holdx5 (0 or 1) Hold

Exchange-Line Key Operation: HOLD

BSSC-0413:0
CO Key OPT 2

(all CPCs) - Version 2.0 or higher

Set whether an exchange-line call appearing on an FF-key and placed on hold, can be retrieved by pressing HOLD again.

FF3 0 BSSC 04 13 Hold (0 or 1) Hold

BSSC: Extension Port Position -
B=CCU 1-6
SS=Slot 01-12
C=Circuit 1-8

0=Ignore pressing of HOLD. (default)
1=Call is retrieved.

FF3 Extensions

Notes:

Even if this is left at the default "**0=Ignore,"** the call can still be retrieved by pressing the FF-key.

Related Programming:

Exchange-Line Key Operation: Multiple Call Pickup

BSSC-0414:0
CO Key OPT 3

(all CPCs) - Version 2.0 or higher

Set whether a second exchange-line call, appearing on an FF-key and ringing for an incoming call, can be retrieved by pressing the FF-key.

FF3 0 BSSC 04 14 Hold (0 or 1) Hold

BSSC: Extension Port Position -
B=CCU 1-6
SS=Slot 01-12
C=Circuit 1-8

0=FF-key press retrieves call. (default)
1=FF-key press is ignored.

Notes:

If this is set to “1=Ignore,” the extension user will still be connected to the first call.

Related Programming:

Exchange-Line Key Operation: Brokers Hold

BSSC-0415:0
CO Key OPT 4

(all CPCs) - Version 2.0 or higher

Enable/Disable the Brokers Hold feature on a digital keyphone extension.

FF3 0 BSSC 04 15 Hold (0 or 1) Hold

BSSC: Extension Port Position -
B=CCU 1-6
SS=Slot 01-12
C=Circuit 1-8

0=Disable Brokers Hold. (default)

1=Enable Brokers Hold.

FF3 Extensions

Notes:

Brokers Hold: The ability to toggle between two calls on exchange-line keys by pressing HOLD.

- If this address is left at the default **”0=Disable,”** the extension user will receive intercom dial tone after putting the second call on hold (both calls will be on hold).
- If this address is set to “1=Enable,” the first call will be automatically retrieved when the second call is put on hold.

*(the following applies only if Brokers Hold is left at default **”0=Disable”)*** If an appearance call (on an FF-key) and a non-appearance call (on "INT" LED - no FF-key) are both on hold...

- the appearance call’s FF-key will blink. Retrieve it by pressing the FF-key.
- the "INT" LED will blink for the non-appearance call. Retrieve it by pressing HOLD.

Related Programming:

System Mode Display

BSSC-0416:0
S-Mode Display

(all CPCs) - Version 2.0 or higher

Enable/Disable the display of System Mode status (Day1/Day2/Night) on the extension's LCD.

FF3 0 BSSC 04 16 Hold (0 or 1) Hold

BSSC: Extension Port Position -
B=CCU 1-6
SS=Slot 01-12
C=Circuit 1-8

0=Do not display System Mode. (default)

1=Display System Mode.

Notes:

By default, in **Extension COS: System Mode Switch (pg. 1-62)**, only the Attendant can ***change*** the system mode.

Related Programming:

Extension COS: System Mode Switch (pg. 1-62) **FF1 0 03 (00-15) 26 Hold (0 or 1) Hold**

Flash on PROG (Recall)

BSSC-0417:1
Recall Key

(all CPCs) - Version 2.0 or higher

Enable/Disable the PROG key for the Recall function (release line & seize new exchange line).

FF3 0 BSSC 04 17 Hold (0 or 1) Hold

BSSC: Extension Port Position -
B=CCU 1-6
SS=Slot 01-12
C=Circuit 1-8

0=Ignore pressing of PROG or Recall key for flash to exchange line. *(default-all except U.K.)*
1=Send short flash when PROG or Recall key is pressed. *(default-U.K.)*

Notes:

Some sites require a shorter flash than is provided by the FL/R key. There are two flash timers (in **FF1 1 01)** that are applied to individual exchange lines. One timer could be set for a longer period and used for the FL/R key. The other timer could be shorter for PROG.

Related Programming:

Flash Signal Control (pg. 3-19) **FF3 0 BSSC 04 17 Hold (0 or 1) Hold**
Flash Timer 1 for Exchange Line (pg. 1-128) **FF1 1 01 0001 Hold (1-255) Hold**
Flash Timer 2 for Exchange Line (pg. 1-129) **FF1 1 01 0002 Hold (1-255) Hold**

Call Duration Display

BSSC-0418:0
In-Talk Duration

(all CPCs) - Version 2.0 or higher

Set whether call duration timing or the current date/time is displayed on the extension phone after receiving a public-exchange call.

FF3 0 BSSC 04 18 Hold (0 or 1) Hold

BSSC: Extension Port Position -
B=CCU 1-6
SS=Slot 01-12
C=Circuit 1-8

0=Call duration is displayed. (default)
1=Date/Time is displayed.

Notes:

FF3 Extensions

Related Programming:

Call Duration (pg. 2-20) on analog public exchange lines **FF2 0 BSSC 02 03 Hold (0 or 1) Hold**
Call Duration Timer (Public Exchange Line) (pg. 1-131) **FF1 1 01 0005 Hold (1-255) Hold**

Ring Volume Control

BSSC-0419:1
Ring VOL Control

(all CPCs) - Version 2.0 or higher

Enable/Disable separate volume controls for incoming call ringing and intercom ringing on the extension.

FF3 0 BSSC 04 19 Hold (0 or 1) Hold

BSSC: Extension Port Position -
B=CCU 1-6
SS=Slot 01-12
C=Circuit 1-8

0=Same volume control for both.
1=Separate volume controls for incoming call and intercom call ringing. (default)

Notes:

Related Programming:

Loop (AEC) Disconnect Signal for VM

BSSC-0420:0
Loop Disconnect

(all CPCs) - Version 2.0 or higher

Enable/Disable a 1-second (open-loop) disconnect signal sent from this extension port at hangup, allowing for quick-disconnect from 3rd-Party and Built-In Voice Mail systems.

FF3 0 BSSC 04 20 Hold (0 or 1) Hold

BSSC: Extension Port Position -
B=CCU 1-6
SS=Slot 01-12
C=Circuit 1-8

0=Do not send Loop Disconnect signal. (default)
1=Send Loop Disconnect signal.

Notes:

Related Programming:

SLT Voice Mail Connection (pg. 3-11) **FF3 0 BSSC 04 06 Hold (0 or 1) Hold**

Flash Signal Control

BSSC-0421:0
Flash Control

(all CPCs) - Version 2.0 or higher

Enable/Disable flash signal sent from this extension whenever the user presses the FL/R or Recall key.

FF3 0 BSSC 04 21 Hold (0 or 1) Hold

BSSC: Extension Port Position -
B=CCU 1-6
SS=Slot 01-12
C=Circuit 1-8

0=Send flash signal to public exchange. (default)
1=Send intercom dial tone.

Notes:

The sending of the flash signal can also be enabled/disabled on individual exchange lines.

- ❒ If the flash signal is disabled on the exchange line but enabled on the extension (or vice versa), a flash signal ***will be sent*** when the user accesses the exchange line and presses FL/R.

(all CPCs - Version 2.5 and higher) This setting will also affect the "SLT Flash Send" Flexible Feature Code (765 by default). See **FF1 2: Dial Plan (pg. 1-167)**.

Related Programming:

Flash Key Operation ...

(pg. 2-24) on analog public exchange lines FF2 0 BSSC 02 11 Hold (0 or 1) Hold
(pg. 2-51) on AC-15 private lines FF2 0 BSSC 02 11 Hold (0 or 1) Hold
(pg. 2-68) on ISDN exchange lines FF2 1 BSSC 03 04 Hold (0 or 1) Hold
(pg. 2-100) on T1-CO lines *(USA only)* FF2 2 BSSCC 03 09 Hold (0 or 1) Hold
(pg. 2-128) on T1-E&M tie lines *(USA only)* FF2 2 BSSCC 03 09 Hold (0 or 1) Hold

Flexible Feature Codes at Dial Tone ...

(pg. 1-168) for Dial Plan "A" FF1 2 02 (0001-0056) Hold (max. 4-digit Code) Hold
(pg. 1-170) for Dial Plan "B" FF1 2 03 (0001-0056) Hold (max. 4-digit Code) Hold

Variable Mode Release

BSSC-0422:0
Variable Mode

(all CPCs) - Version 2.0 or higher

Set whether the phone stays in Variable Mode after the extension user executes a feature in Variable Mode. This address applies to Small Display phones only. (Large Display phones will automatically stay in Variable Mode.)

FF3 0 BSSC 04 22 Hold (0 or 1) Hold

BSSC: Extension Port Position -
B=CCU 1-6
SS=Slot 01-12
C=Circuit 1-8

0=Release Variable Mode. (default)
1=Stay in Variable Mode.

Notes:

Variable Mode: Activated via an FF-key programmed with the Variable Mode feature code. Provides one-touch access to features on Large Display and Small Display phones. While Variable Mode is activated (the FF-key will be lit red), a different menu of features can appear for each call state (intercom calling, public-exchange dial tone, exchange-line call, and busy tone). Any of these features can be executed during the call state in which they appear, by pressing the soft key next to the displayed feature.

Related Programming:

Soft Key Feature Assignment (pg. 4-19) FF4 2 BSSC 0 (01-30) Hold (Code) Hold

MCO Prime Line

BSSC-0423:0
MCO Preference

(all CPCs) - Version 2.0 or higher

Enable/Disable the MCO Prime Line feature on the extension.

FF3 0 BSSC 04 23 Hold (0 or 1) Hold

BSSC: Extension Port Position -
B=CCU 1-6
SS=Slot 01-12
C=Circuit 1-8

0=Disable MCO Prime Line. (default)
1=Enable MCO Prime Line.

Notes:

MCO Prime Line: When the user picks up the handset (ON/OFF not affected; it always gets intercom dial tone), the 1st-priority MCO group is picked up automatically.

Related Programming:

FF1 3: MCO Access in Tenant Groups (pg. 1-176)

Forced Account Codes

BSSC-0424:0
Forced ACCD

(all CPCs) - Version 2.0 or higher

Enable/Disable "Forced" entry of Account Codes for calls on this extension.

FF3 0 BSSC 04 24 Hold (0 or 1) Hold

BSSC: Extension Port Position -
B=CCU 1-6
SS=Slot 01-12
C=Circuit 1-8

0=Disabled/Not Forced (default)
1=Enabled/Forced

Notes:

Account Codes: The user dials the feature code for Account Code Entry (#8 by default), the Account Code (1-10 digits long), and # before dialling an outbound call. Or, during an inbound call, the user dials AUTO # [Account Code] #. Account Codes are useful for allocating telephone expenses on Call Logging reports. They are also useful (as Forced, Not Forced, Verified, or Unverified) for overriding the extension's TRS/Call Barring Class for outbound calls that are "exceptions to the rule," as shown in the following table.

Table 3-1. Account Codes and their interaction with TRS/Call Barring for outbound calls

(FF3 0 BSSC 04 24) *Are Account Codes Forced or Not Forced on this extension?*	(FF3 0 BSSC 04 25) *Are Account Codes Verified or Unverified on this extension?*	*This TRS Class determines whether to allow the call or not...*	
		If the user doesn't enter an Account Code:	If the user enters an Account Code:
Forced	Verified*	system-wide TRS Class for Forced Account Codes (FF1 0 19)	Account Code TRS Class (FF8 1 04)
Forced	Unverified	system-wide TRS Class for Forced Account Codes (FF1 0 19)	Extension TRS Class (FF3 0 BSSC 06)
Not Forced	Verified*	Extension TRS Class (FF3 0 BSSC 06)	Account Code TRS Class (FF8 1 04)
Not Forced	Unverified	Extension TRS Class (FF3 0 BSSC 06)	Extension TRS Class (FF3 0 BSSC 06)

** Anytime the extension is set for "Verified" Account Codes, and the user enters an Account Code, it is checked against the Verified Account Code Table in FF8 1 04. If no match is found, further dialling is not allowed (TRS Class isn't even considered; the user gets fast-busy immediately).*

For more information about Account Codes and their interaction with TRS, see *Section 700-Feature Operation.*

Related Programming:

TRS Class for Forced Account Codes (pg. 1-117) **FF1 0 19 0001 Hold (1-50) Hold**
Verified Account Codes (pg. 3-22) for extensions **FF3 0 BSSC 04 25 Hold (0 or 1) Hold**
TRS Class Assignment (Day) (pg. 3-25) for extensions **FF3 0 BSSC 06 0 Hold (1-50) Hold**
TRS Class Assignment (Night) (pg. 3-25) for extensions **FF3 0 BSSC 06 1 Hold (1-50) Hold**
FF6 1: TRS Class Definitions (pg. 6-16)
Verified Account Codes (pg. 8-50) **FF8 1 04 Hold Hold (001-500) 0001 Hold FL/R (up to 10 digits) Hold**
TRS Class for Verified Account Codes (pg. 8-50) **FF8 1 04 Hold Hold (001-500) 0002 Hold (1-50) Hold**

Verified Account Codes

BSSC-0425:0
Verified ACCD

(all CPCs) - Version 2.0 or higher

Enable/Disable Verified Account Codes for calls on this extension.

FF3 0 BSSC 04 25 Hold (0 or 1) Hold

BSSC: Extension Port Position -
B=CCU 1-6
SS=Slot 01-12
C=Circuit 1-8

0=Unverified (default)
1=Verified

Notes:

If this address is set to "1=Verified," the system will check the entered Account Code for a matching entry in **Verified Account Codes (FF8 1 04)**. If no match is found, the phone user receives fast-busy tone and further dialling is not allowed. See the table (previous page) for other interactions.

Related Programming:

TRS Class for Forced Account Codes (pg. 1-117) FF1 0 19 0001 Hold (1-50) Hold
Forced Account Codes (pg. 3-21) for extensions FF3 0 BSSC 04 24 Hold (0 or 1) Hold
TRS Class Assignment (Day) (pg. 3-25) for extensions FF3 0 BSSC 06 0 Hold (1-50) Hold
TRS Class Assignment (Night) (pg. 3-25) for extensions FF3 0 BSSC 06 1 Hold (1-50) Hold
FF6 1: TRS Class Definitions (pg. 6-16)
Verified Account Codes (pg. 8-50) FF8 1 04 Hold Hold (001-500) 0001 Hold FL/R (up to 10 digits) Hold
TRS Class for Verified Account Codes (pg. 8-50) FF8 1 04 Hold Hold (001-500) 0002 Hold (1-50) Hold

Not Used

(all CPCs) - Version 2.0 or higher

FF3 0 BSSC 04 26 Hold

BSSC-0426:
Not Used

Hot Dial Pad

BSSC-0427:1
Hot Dial Pad

(all CPCs) - Version 2.5 or higher

Enable/Disable the Hot Dial Pad feature on this extension.

FF3 0 BSSC 04 27 Hold (0 or 1) Hold

BSSC: Extension Port Position -
B=CCU 1-6
SS=Slot 01-12
C=Circuit 1-8

0=Disable Hot Dial Pad.
1=Enable Hot Dial Pad. (default)

Notes:

Hot Dial Pad: The ability to dial a phone number without picking up the handset (call automatically goes on-speaker).

Related Programming:

Tenant Group Assignment

BSSC-05 :1
Tenant Group

(all CPCs) - Version 2.0 or higher

Assign the extension to a Tenant Group.

FF3 0 BSSC 05 Hold (1-72) Hold

BSSC: Extension Port Position -
B=CCU 1-6
SS=Slot 01-12
C=Circuit 1-8

Tenant Group No. 1-72

default: 1

NOTE: Available range of Tenant Group Nos. is determined by the CPC installed, and the number of CCUs specified in programming (see **0: System Configuration**).

CPC INSTALLED		NO. OF CCUS SPECIFIED IN PROGRAMMING					
(shaded cells not available with this CPC)	CPC-96:	1	2	3	4	5	6
	CPC-288:	1	2	3	4	5	6
	CPC-576:	1	2	3	4	5	6
Tenant Group No. range:		12	24	36	48	60	72

FF3 Extensions

Notes:

This is the ring assignment for incoming calls in the Inbound MCO Exchange-Line Group assigned to this Tenant Group in **FF1 3 03: Tenant Groups: Inbound Exchange-Line Groups (pg. 1-181)**.

In addition to ring assignments for incoming calls, Tenant Groups can be used for controlling the extension's MCO access, MOH (Music-On-Hold) source for intercom calls, and SSD block assignment.

Related Programming:

MOH Source for Intercom Calls (pg. 1-112) FF1 0 14 (0001-0072) Hold (0-3) Hold
SSD Block Assignment to MCO Tenant Groups (pg. 1-113) FF1 0 15 (0001-0072) Hold (0-72) Hold
Tenant Groups: Inbound Exchange-Line Groups (pg. 1-181) FF1 3 03 (0001-0072) Hold (1-99) Hold

TRS Class Assignment (Day)

BSSC-060 :1
Day1/2 TRS CLS

(all CPCs) - Version 2.0 or higher

Assign a Toll Restriction Service (TRS/Call Barring) class to the extension, applicable to outbound calls during Day1 and Day2 modes.

FF3 0 BSSC 06 0 Hold (1-50) Hold

BSSC: Extension Port Position -
B=CCU 1-6
SS=Slot 01-12
C=Circuit 1-8

TRS Class No. 1-50 (Day)

default: 1 (for USA, U.K.)
9 (for all others)

Notes:

Related Programming:

FF6 1: TRS Class Definitions (pg. 6-16)

TRS Class Assignment (Night)

BSSC-061 :1
Night TRS CLS

(all CPCs) - Version 2.0 or higher

Assign a Toll Restriction Service (TRS/Call Barring) class to the extension, applicable to outbound calls during Night mode.

FF3 0 BSSC 06 1 Hold (1-50) Hold

BSSC: Extension Port Position -
B=CCU 1-6
SS=Slot 01-12
C=Circuit 1-8

TRS Class No. 1-50 (Night)

default: 1 (for USA, U.K.)
9 (for all others)

Notes:

Related Programming:

FF6 1: TRS Class Definitions (pg. 6-16)

Extension COS Assignment

BSSC-07 :1
Extension COS

(all CPCs) - Version 2.0 or higher

Assign a Class of Service (COS) to the extension.

FF3 0 BSSC 07 Hold (1-16) Hold

BSSC: Extension Port Position -
B=CCU 1-6
SS=Slot 01-12
C=Circuit 1-8

Extension COS No. 1-16
default: 1

NOTE: Based on default settings, Ext. COS #15 is used for Voice Mail ports, and COS #16 for Attendant phones.

Notes:

FF3 Extensions

Based on this **Extension COS Assignment,** extension features can be enabled/disabled.

Related Programming:

FF1 0 03: Extension COS Definitions (pg. 1-35)

Extension Digital Pad Class Assignment

BSSC-08 :1
EXT DPAD CLS

(all CPCs) - Version 2.0 or higher

Assign a Digital Pad Class to the extension.

FF3 0 BSSC 08 Hold (1-8) Hold

BSSC: Extension Port Position -
B=CCU 1-6
SS=Slot 01-12
C=Circuit 1-8

Extension Digital Pad Class No. 1-8

default: 1 (for Analog Extension Card)
3 (for Digital Extension Card)

Notes:

This Digital Pad Class assignment can be used for controlling volume adjustments between the extension and other extensions, exchange lines, conference calls, etc. See **Digital Pad Settings (FF1 8).**

If a One-Line SLT Adapter is connected to the DEC port, the above address should be changed to "1" (for AEC).

Related Programming:

FF1 8: Digital Pad Settings (pg. 1-193)

Dial Plan Assignment

BSSC-09 :1
Dial Plan PTN

(all CPCs) - Version 2.0 or higher

Assign a Dial Plan to the extension.

FF3 0 BSSC 09 Hold (1 or 2) Hold

BSSC: Extension Port Position -
B=CCU 1-6
SS=Slot 01-12
C=Circuit 1-8

1=Dial Plan ”A” (default)
2=Dial Plan “B”

FF3
Extensions

Notes:

The phone system supports two Dial Plans, each with a programmable set of Flexible Feature Codes.

Related Programming:

FF1 2: Dial Plan (pg. 1-167)

FF3 1: S-Point ISDN Extensions

NOTE: *This section is basically the same as **ISDN** Exchange Line settings, but here the PBX side is the public exchange.*

Common D-Channel Position

BSSC-000 : Shared Dch POS

(all CPCs) - Version 2.0 or higher

Identify the position of the common D-channel (if used) that will control the ISDN extension located on a 24B or 30B PRI card.

FF3 1 BSS1 00 0 Hold (BSSC) Hold

BSSC: Extension Port Position -
B=CCU 1-6
SS=Slot 01-12
1=Circuit (PRI) 1

Common D-Channel Position:
B=CCU 1-6
SS=Slot 01-12
C=Circuit 1-4 (BRI) or 1 (PRI)

default: (none)

FF3 Extensions

Notes:

This address is applicable only if the system is using multiple PRI or BRI cards. Skip this address if using only the 30B+D card for PRI, or only one 2B+D card for BRI.

Related Programming:

D-Channel Interface ID Code (pg. 3-29) **FF3 1 BSS1 00 1 Hold (1-127) Hold**

D-Channel Interface ID Code

BSSC-001 : Dch I/F ID Code

(all CPCs) - Version 2.0 or higher

When **Common D-Channel** (see previous address) is used, identify the Interface ID code (supplied by the public exchange) that will be used for common D-channel control.

FF3 1 BSS1 00 1 Hold (1-127) Hold

BSSC: Extension Port Position -
B=CCU 1-6
SS=Slot 01-12
1=Circuit (PRI) 1

D-Channel Interface ID Code (max. 3 digits)

default: [no assignment]

Notes:

The **Common D-Channel Position** must be set for the port before this address can be entered. If **Common D-Channel Position** is cleared, this address will automatically be cleared also.

Related Programming:

Common D-Channel Position (pg. 3-28) **FF3 1 BSS1 00 0 Hold (BSSC) Hold**

Extension Number Assignment

BSSC-01 : EXT Number

(all CPCs) - Version 2.0 or higher

Assign an extension number to the ISDN port only.

FF3 1 BSSC 01 Hold (0-9999) Hold

BSSC: Extension Port Position -
B=CCU 1-6
SS=Slot 01-12
C=Circuit 1-4 (BRI) or 1 (PRI)

Extension Number of ISDN Port

default: [no assignment]

Notes:

Related Programming:

Connection Type

BSSC-0200:0
Connection Type

(all CPCs) - Version 2.0 or higher

Choose the connection type for the ISDN extension.

FF3 1 BSSC 02 00 Hold (0 or 1) Hold

BSSC: Extension Port Position -
B=CCU 1-6
SS=Slot 01-12
C=Circuit 1-4 (BRI) or 1 (PRI)

0=Point-to-Point (default)
1=Point-to-MultiPoint (BRI only)

Notes:

If set to "1" (Point-to-MultiPoint), you can parallel-connect up to 8 different ISDN-BRI devices. This is normally used with S-Point DDI.

FF3
Extensions

Related Programming:

DDI Dialling to ISDN "S" Point (pg. 1-189) **FF1 4 05 (0001-0192) Hold (0-9999) Hold**
Called Number Indication (pg. 3-34) **FF3 1 BSSC 03 03 Hold (0 or 1) Hold**

Passive Bus

BSSC-0201:0
Passive Bus

(all CPCs) - Version 2.0 or higher

Set the distance between the phone system and a station or another system.
Controls voice level on the ISDN extension.

FF3 1 BSSC 02 01 Hold (0 or 1) Hold

BSSC: Extension Port Position -
B=CCU 1-6
SS=Slot 01-12
C=Circuit 1-4 (BRI) or 1 (PRI)

0=Short Loop (200m) (default)
1=Long Loop (1 km)

Notes:

Related Programming:

Layer 1 Operate Mode

BSSC-0202:0
Operate Mode

(all CPCs) - Version 2.0 or higher

Set the ISDN detection method by the public exchange. (The public exchange should be contacted to match this detection method.)

FF3 1 BSSC 02 02 Hold (0 or 1) Hold

BSSC: Extension Port Position -
B=CCU 1-6
SS=Slot 01-12
C=Circuit 1-4 (BRI) or 1 (PRI)

0=Active mode. (default)
1=Activated per call.

Notes:

If **"Active mode" (default)** is selected, PBX will inform the public exchange of the existence of the ISDN extension when PBX power is turned on.

If "Activated per call" is selected, system will inform the public exchange of the existence of the ISDN extension when the extension makes an outgoing call, or the system detects an incoming call.

Related Programming:

Not Used

(all CPCs) - Version 2.0 or higher

FF3 1 BSSC 02 03 Hold

BSSC-0203:
Not Used

B-Channel Select

BSSC-0300:0
Bch Select

(all CPCs) - Version 2.0 or higher

Set the method used by the system to seize a B-channel for an outgoing call.

FF3 1 BSSC 03 00 Hold (0 or 1) Hold

BSSC: Extension Port Position -
B=CCU 1-6
SS=Slot 01-12
C=Circuit 1-4 (BRI) or 1 (PRI)

0=System will search for highest-numbered B-channel; system cannot change channel. (default)

1=System will search for lowest-numbered B-channel; system can change channel by request from ISDN terminal equipment.

FF3
Extensions

Notes:

Related Programming:

B-Channel Numbering (Layer 3)

BSSC-0301:1
Bch MAP

(all CPCs) - Version 2.0 or higher

Select the Layer 3 format of the messaging commands sent by the system/PBX to the ISDN device.

FF3 1 BSSC 03 01 Hold (0 or 1) Hold

BSSC: Extension Port Position -
B=CCU 1-6
SS=Slot 01-12
C=Circuit 1-4 (BRI) or 1 (PRI)

0=Slot Mapping
1=Channel Numbering (default)

Notes:

When ordering span from the public exchange, specify **Slot Mapping** or **Channel Numbering:**

- Choose **Slot Mapping** for multirate (64kbps base rate) bearer capability on a Primary Rate Interface, when you want to combine channels together -- for example, using many channels to provide a larger bandwidth for video-conferencing.

❒ Choose **Channel Numbering (default)** when the information transfer rate is 64 kbps, and the channels on the span are used as single channels. For example, specify to the public exchange:

1st interface = channels 1-24, *or 1-30 ???*
2nd interface = channels 25-49, *or* _____*???*

In ISDN, Layers 1, 2 and 3 represent signalling levels over the D-channel. **Layer 1** is the basic hardware level that controls messages regarding electrical characteristics, such as speed, channel structure, etc. **Layer 2** is the "housekeeping" level, containing controls that make sure the messages coincide, providing sequence and flow control, etc. **Layer 3** is the feature level with messages that establish, maintain, and terminate connections, as well as additional information for different applications, such as passing the identity of the calling party, passing terminal compatibility information, allowing the redirection of calls, etc.

Related Programming:

B-Channel Numbering (Layer 3) (pg. 2-71) on ISDN trunks **FF2 1 BSSC 03 10 Hold (0 or 1) Hold**

Call ID Length

BSSC-0302: Call ID Length

(all CPCs) - Version 2.0 or higher

Set the ID method by which the system/PBX flags messages sent to the ISDN PRI equipment for calls.

FF3 1 BSSC 03 02 Hold (0 or 1) Hold

BSSC: Extension Port Position -
B=CCU 1-6
SS=Slot 01-12
C=Circuit 1-4 (BRI) or 1 (PRI)

0=1 byte/octet (default for BRI)
1=2 bytes/octets (default for PRI)

Notes:

"1 byte/octet" rotates from 1 to 127 IDs. "2 bytes/octets" rotates from 1 to 32,767 IDs.

Related Programming:

Called Number Indication

BSSC-0303:0
Called # INFO

(all CPCs) - Version 2.0 or higher

For incoming calls, set whether the system will send the called party's number to the ISDN terminal.

FF3 1 BSSC 03 03 Hold (0 or 1) Hold

BSSC: Extension Port Position -
B=CCU 1-6
SS=Slot 01-12
C=Circuit 1-4 (BRI) or 1 (PRI)

0=No called-number indication. (default)
1=Called-number indication.

Notes:

This must be set to "1=Called-number indication" when using S-Point DDI (parallel connection).

FF3 Extensions

Related Programming:

DDI Dialling to ISDN "S" Point (pg. 1-189) **FF1 4 05 (0001-0192) Hold (0-9999) Hold**
Connection Type (pg. 3-30) for ISDN extensions **FF3 1 BSSC 02 00 Hold (0 or 1) Hold**

Called Sub-Address Indication

BSSC-0304:0
Sub-Address INFO

(all CPCs) - Version 2.0 or higher

For incoming calls, set whether the PRI/BRI card will send the sub-address that identifies the originating terminal, to the ISDN extension.

FF3 1 BSSC 03 04 Hold (0 or 1) Hold

BSSC: Extension Port Position -
B=CCU 1-6
SS=Slot 01-12
C=Circuit 1-4 (BRI) or 1 (PRI)

0=No sub-address indication. (default)
1=Sub-address indication.

Notes:

Related Programming:

Not Used

(all CPCs) - Version 2.0 or higher

FF3 1 BSSC 03 05 Hold

BSSC-0305:
Not Used

Progress Tone

BSSC-0306:1
Progress Tone

(all CPCs) - Version 2.0 or higher

Set whether the system will send progress tones indicating call status (e.g., ringback tone, busy tone) to the analog terminal connected to the ISDN extension.

FF3 1 BSSC 03 06 Hold (0 or 1) Hold

BSSC: Extension Port Position -
B=CCU 1-6
SS=Slot 01-12
C=Circuit 1-4 (BRI) or 1 (PRI)

0=Do not send progress tones.

1=Send progress tones. (default)

FF3
Extensions

Notes:

Related Programming:

Data Security

BSSC-0307:0
Data Security

(all CPCs) - Version 2.0 or higher

Set whether to allow interruptions (such as Busy Override-Receive) at the analog terminal connected to the ISDN extension.

FF3 1 BSSC 03 07 Hold (0 or 1) Hold

BSSC: Extension Port Position -
B=CCU 1-6
SS=Slot 01-12
C=Circuit 1-4 (BRI) or 1 (PRI)

0=Data Security OFF; interruptions are allowed. (default)

1=Data Security ON; do not allow interruptions.

Notes:

Related Programming:

Not Used

(all CPCs) - Version 2.5 or higher

FF3 1 BSSC 03 08 Hold

BSSC-0308:
Not Used

FF3
Extensions

Tenant Group Assignment

BSSC-04 :1
Tenant Group

(all CPCs) - Version 2.0 or higher

Assign the ISDN extension's PRI-/BRI-line to a Tenant Group.

FF3 1 BSSC 04 Hold (1-72) Hold

BSSC: Extension Port Position -
B=CCU 1-6
SS=Slot 01-12
C=Circuit 1-4 (BRI) or 1 (PRI)

Tenant Group No. 1-72
default: 1

NOTE: Available range of Tenant Group Nos. is determined by the CPC installed, and the number of CCUs specified in programming (see **0: System Configuration**).

CPC INSTALLED		NO. OF CCUS SPECIFIED IN PROGRAMMING					
(shaded cells not available with this CPC)	CPC-96:	1	2	3	4	5	6
	CPC-288:	1	2	3	4	5	6
	CPC-576:	1	2	3	4	5	6
Tenant Group No. range:		12	24	36	48	60	72

Notes:

Tenant Groups cannot be assigned to individual channels; instead, they are assigned by PRI- or BRI-line basis.

This is the ring assignment for incoming calls in the Inbound MCO Exchange-Line Group assigned to this Tenant Group in **FF1 3 03: Tenant Groups: Inbound Exchange-Line Groups (pg. 1-181)**.

In addition to ring assignments for incoming calls, Tenant Groups can be used for controlling the extension's MCO access, MOH (Music-On-Hold) source for intercom calls, and SSD block assignment.

Related Programming:

MOH Source for Intercom Calls (pg. 1-112) FF1 0 14 (0001-0072) Hold (0-3) Hold
SSD Block Assignment to MCO Tenant Groups (pg. 1-113) FF1 0 15 (0001-0072) Hold (0-72) Hold
Tenant Groups: Inbound Exchange-Line Groups (pg. 1-181) FF1 3 03 (0001-0072) Hold (1-99) Hold

TRS Class Assignment (Day)

BSSC-050 :1
Day1/2 TRS CLS

(all CPCs) - Version 2.0 or higher

Assign a Toll Restriction Service (TRS/Call Barring) class to the ISDN extension, applicable to outbound calls during Day1 and Day2 modes.

FF3 1 BSSC 05 0 Hold (1-50) Hold

BSSC: Extension Port Position -
B=CCU 1-6
SS=Slot 01-12
C=Circuit 1-4 (BRI) or 1 (PRI)

TRS Class No. 1-50 (Day)
default: 1 (for USA, U.K.)
9 (for all others)

FF3 Extensions

Notes:

Related Programming:

FF6 1: TRS Class Definitions (pg. 6-16)

TRS Class Assignment (Night)

BSSC-051 :1
Night TRS CLS

(all CPCs) - Version 2.0 or higher

Assign a Toll Restriction Service (TRS/Call Barring) class to the ISDN extension, applicable to outbound calls during Night mode.

FF3 1 BSSC 05 1 Hold (1-50) Hold

BSSC: Extension Port Position -
B=CCU 1-6
SS=Slot 01-12
C=Circuit 1-4 (BRI) or 1 (PRI)

TRS Class No. 1-50 (Night)
default: 1 (for USA, U.K.)
9 (for all others)

Notes:

Related Programming:

FF6 1: TRS Class Definitions (pg. 6-16)

Extension COS Assignment

BSSC-06 :1
Extension COS

(all CPCs) - Version 2.0 or higher

Assign a Class of Service (COS) to the ISDN extension.

FF3 1 BSSC 06 Hold (1-16) Hold

BSSC: Extension Port Position -
B=CCU 1-6
SS=Slot 01-12
C=Circuit 1-4 (BRI) or 1 (PRI)

Extension COS No. 1-16

default: 1

FF3
Extensions

Notes:

Based on this **Extension COS Assignment,** extension features can be enabled/disabled.

Related Programming:

FF1 0 03: Extension COS Definitions (pg. 1-35)

Extension Digital Pad Class Assignment

BSSC-070 :5
EXT DPAD CLS

(all CPCs) - Version 2.0 or higher

Assign a Digital Pad Class to the ISDN extension.

FF3 1 BSSC 07 0 Hold (1-8) Hold

BSSC: Extension Port Position -
B=CCU 1-6
SS=Slot 01-12
C=Circuit 1-4 (BRI) or 1 (PRI)

Extension Pad Class No. 1-8

default: 5

Notes:

This Digital Pad Class assignment can be used for controlling volume adjustments between the extension and other extensions, exchange lines, conference calls, etc. (To set these volume adjustment levels, see **Digital Pad Settings.)**

Related Programming:

FF1 8: Digital Pad Settings (pg. 1-193)

Dial Plan Assignment

BSSC-08 :1
Dial Plan PTN

(all CPCs) - Version 2.0 or higher

Assign a Dial Plan to the ISDN extension.

FF3 1 BSSC 08 Hold (1 or 2) Hold

BSSC: Extension Port Position -
B=CCU 1-6
SS=Slot 01-12
C=Circuit 1-4 (BRI) or 1 (PRI)

1=Dial Plan "A" (default)
2=Dial Plan "B"

FF3 Extensions

Notes:

The phone system supports two Dial Plans, each with a programmable set of Flexible Feature Codes.

Related Programming:

FF1 2: Dial Plan (pg. 1-167)

FF3 2: Virtual Ports

Extension Number Assignment

001-00 : EXT Number

(all CPCs) - Version 2.0 or higher

Assign an extension number to the Virtual Port. This will be the number dialled to reach the Virtual Port.

(or BLK-DOWN)

FF3 2 (001-576) 00 Hold (0-9999) Hold

Virtual Port No. Extension No. 0-9999

default: (none)

FF3 Extensions

NOTE: Available range of Virtual Ports is determined by the CPC installed, and the number of CCUs specified in programming (see **0: System Configuration**).

CPC INSTALLED		NO. OF CCUS SPECIFIED IN PROGRAMMING					
(shaded cells not available with this CPC)	CPC-96:	1	2	3	4	5	6
	CPC-288:	1	2	3	4	5	6
	CPC-576:	1	2	3	4	5	6
Virtual Port range:		96	192	288	384	480	576

Notes:

IMPORTANT: If the Extension No. starts with a "9", it may not work if the "9" MCO access code is being used ("9" is the default access code for MCO-1 in Tenant Group 1). Check the Virtual Port's **Tenant Group Assignment (pg. 3-43)** and the Tenant Group's associated MCO settings in **FF1 3: MCO Access in Tenant Groups (pg. 1-176)**.

Press the BLK-DOWN soft key instead of the last HOLD in the above address, to scroll to the next BSSC extension port position and assign it an Extension Number (stay in same address).

Virtual Ports: Extensions that do not physically exist, and do not require any hardware (doesn't take up a slot, port, etc.). Virtual Ports can be used for multiple ringing. Some examples are as follows:

- ❒ Incoming DDI or DL calls to a Virtual Port can ring on multiple phones.
- ❒ Virtual Ports can be assigned to Hunt Groups.
- ❒ Virtual Ports can receive calls going through Auto Attendant (e.g., *"for Customer Service, press 1"*).
- ❒ Virtual Ports can be used as System Park orbits.

There are two kinds of Virtual Ports -- a **Virtual Extension** which is a Virtual Port with an assigned (diallable) extension number (to set up multiple ringing), and a **Floating Virtual Port** which does not have an extension number (similar to a Park Orbit).

Related Programming:

Virtual Key LED: Answer Control #1 (pg. 1-12) FF1 0 01 0007 Hold (0 or 1) Hold
Virtual Key LED: Answer Control #2 (pg. 1-13) FF1 0 01 0008 Hold (0 or 1) Hold
Floating Hold on Exchange Line Key (pg. 1-14) FF1 0 01 0009 Hold (0 or 1) Hold
Floating Hold on Virtual Port Key (pg. 1-14) FF1 0 01 0010 Hold (0 or 1) Hold
FF-Key Feature Assignment (Digital Keyphones, SLTs, EM/24s) (pg. 4-7) FF4 0 BSSC 0 (01-32) Hold FL/R (Code) Hold

Ring Frequency

001-0100 :1
Ring Frequency

(all CPCs) - Version 2.0 or higher

Set the ring frequency for incoming calls to the Virtual Port.

FF3 2 (001-576) 01 00 Hold (1-6) Hold

Virtual Port No.

1=400/562 Hz (default)
2=1000/1340 Hz
3=400 Hz
4=800/1040 Hz
5=1040/1320 Hz
6=660/1320 Hz

NOTE: Available range of Virtual Ports is determined by the CPC installed, and the number of CCUs specified in programming (see **0: System Configuration**).

CPC INSTALLED		NO. OF CCUS SPECIFIED IN PROGRAMMING					
(shaded cells not available with this CPC)	CPC-96:	1	2	3	4	5	6
	CPC-288:	1	2	3	4	5	6
	CPC-576:	1	2	3	4	5	6
Virtual Port range:		96	192	288	384	480	576

Notes:

Related Programming:

Ring Pattern

001-0101 :1
Ring Cycle PTN

(all CPCs) - Version 2.0 or higher

Set the interval between rings for incoming calls to the Virtual Port.

FF3 2 (001-576) 01 01 Hold (1-12) Hold

Virtual Port No.

NOTE: Available range of Virtual Ports is determined by the CPC installed, and the number of CCUs specified in programming (see **0: System Configuration**).

CPC INSTALLED		NO. OF CCUS SPECIFIED IN PROGRAMMING					
(shaded cells not available with this CPC)	CPC-96:	1	2	3	4	5	6
	CPC-288:	1	2	3	4	5	6
	CPC-576:	1	2	3	4	5	6
Virtual Port range:		96	192	288	384	480	576

FF3 Extensions

Setting Values for U.K.		Setting Values for USA and Hong Kong	
0	Synchronise with public exchange	**0**	No ring alarm
1	**1on/2off (default) (in seconds)**	**1**	**1on/3off (in seconds) (default)**
2	2on/1off	**2**	2on/2off
3	1on/1off	**3**	3on/1off
4	.5on/.5off	**4**	1on/1off
5	.25on/2.75off	**5**	.5on/.5off
6	.25on/.25off/.25on/2.25off	**6**	.5on/3.5off
7	.25on/.25off/.25on/.25off/.25on/1.75off	**7**	.5on/.5off/.5on/2.5off
8	.75on/.25off/.75on/1.25off	**8**	.25on/.25off/.25on/3.25off
9	1on/.25off/.25on/1.5off	**9**	1on/.25off/.25on/2.5off
10	1on/.25off/.25on/.25off/.25on/1off	**10**	1on/.25off/.25on/.25off/.25on/2off
11	1.375on/.125off/.125on/.125off/.125on/.125off	**11**	1.375on/.125off/.125on/.125off/.125on/.125off
12	Continuous tone	**12**	Continuous tone

Notes:

Related Programming:

Tenant Group Assignment

001-02 :1
Tenant Group

(all CPCs) - Version 2.0 or higher

Assign the Virtual Port to a Tenant Group.

FF3 2 (001-576) 02 Hold (1-72) Hold

Virtual Port No.

Tenant Group No.

default: 1

NOTE: Available range of Virtual Ports and Tenant Groups is determined by the CPC installed, and the number of CCUs specified in programming (see **0: System Configuration**).

CPC INSTALLED		NO. OF CCUS SPECIFIED IN PROGRAMMING					
(shaded cells not available with this CPC)	CPC-96:	1	2	3	4	5	6
	CPC-288:	1	2	3	4	5	6
	CPC-576:	1	2	3	4	5	6
Virtual Port range:		96	192	288	384	480	576
Tenant Group range:		12	24	36	48	60	72

FF3 Extensions

Notes:

This is the ring assignment for incoming calls in the Inbound MCO Exchange Line Group assigned to this Tenant Group in **FF1 3 03: Tenant Groups: Inbound Exchange-Line Groups (pg. 1-181)**.

In addition to ring assignments for incoming calls, Tenant Groups can be used for controlling the extension's MCO access, MOH (Music-On-Hold) source for intercom calls, and SSD block assignment.

Related Programming:

MOH Source for Intercom Calls (pg. 1-112) FF1 0 14 (0001-0072) Hold (0-3) Hold
SSD Block Assignment to MCO Tenant Groups (pg. 1-113) FF1 0 15 (0001-0072) Hold (0-72) Hold
Tenant Groups: Inbound Exchange-Line Groups (pg. 1-181) FF1 3 03 (0001-0072) Hold (1-99) Hold

Extension COS Assignment

001-03 :1
Extension COS

(all CPCs) - Version 2.0 or higher

Assign a Class of Service (COS) to the Virtual Port.

FF3 2 (001-576) 03 Hold (1-16) Hold

Virtual Port No.

Extension COS No. 1-16
default: 1

NOTE: Available range of Virtual Ports is determined by the CPC installed, and the number of CCUs specified in programming (see **0: System Configuration**).

CPC INSTALLED		NO. OF CCUS SPECIFIED IN PROGRAMMING					
(shaded cells not available with this CPC)	CPC-96:	1	2	3	4	5	6
	CPC-288:	1	2	3	4	5	6
	CPC-576:	1	2	3	4	5	6
Virtual Port range:		96	192	288	384	480	576

FF3 Extensions

Notes:

Based on this **Extension COS Assignment,** extension features for incoming calls can be enabled/disabled, such as restricting the receiving of camp-on calls or callbacks.

Related Programming:

FF1 0 03: Extension COS Definitions (pg. 1-35)

FF3 3: RAI Extension Port

NOTE: *RAI is not available in the USA.*

RAI Extension Number Assignment

00 :699
EXT Number

(all CPCs) - Version 2.0 or higher

Assign an extension number to the system's Remote Administration Interface (RAI) port.

FF3 3 00 Hold (0-9999) Hold

RAI Extension No. 0-9999

default: 699

Notes:

The RAI port is mounted on the CPC card.

Assign an extension number to the RAI port so that calls (DDI, DISA, DL, etc.) can ring directly to the RAI port unattended, or a call can be transferred to it.

Related Programming:

Tenant Group Assignment

01 :1
Tenant Group

(all CPCs) - Version 2.0 or higher

Assign the RAI port to a Tenant Group.

FF3 3 01 Hold (1-72) Hold

Tenant Group No. 1-72

default: 1

NOTE: Available range of Tenant Groups is determined by the CPC installed, and the number of CCUs specified in programming (see **0: System Configuration**).

CPC INSTALLED		NO. OF CCUS SPECIFIED IN PROGRAMMING					
(shaded cells not available with this CPC)	CPC-96:	1	2	3	4	5	6
	CPC-288:	1	2	3	4	5	6
	CPC-576:	1	2	3	4	5	6
Tenant Group range:		12	24	36	48	60	72

Notes:

This is the ring assignment for incoming calls in the Inbound MCO Exchange-Line Group assigned to this Tenant Group in **FF1 3 03: Tenant Groups: Inbound Exchange-Line Groups (pg. 1-181)**.

In addition to ring assignments for incoming calls, Tenant Groups can be used for controlling the extension's MCO access, MOH (Music-On-Hold) source for intercom calls, and SSD block assignment.

Related Programming:

MOH Source for Intercom Calls (pg. 1-112) FF1 0 14 (0001-0072) Hold (0-3) Hold
SSD Block Assignment to MCO Tenant Groups (pg. 1-113) FF1 0 15 (0001-0072) Hold (0-72) Hold
Tenant Groups: Inbound Exchange-Line Groups (pg. 1-181) FF1 3 03 (0001-0072) Hold (1-99) Hold

Extension COS Assignment

02 :1
Extension COS

(all CPCs) - Version 2.0 or higher

FF3 Extensions

Assign an Extension Class of Service (COS) to the RAI port.

FF3 3 02 Hold (1-16) Hold

Extension COS No. 1-16

default: 1

Notes:

Based on this **Extension COS Assignment,** RAI extension features can be enabled/disabled.

Related Programming:

FF1 0 03: Extension COS Definitions (pg. 1-35)

4. FF-Keys and Soft Keys (FF4)

Use the FF4 programming addresses in this chapter to assign Feature Codes (including exchange-line FF-key ringing) to FF-keys and soft keys on ICX phones:

FF4 0: FF-Keys on Digital Keyphones, SLTs, and EM/24 Units
FF4 1: FF-Keys on DSS/72 Consoles
FF4 2: Soft Keys on Display Phones

This chapter covers the following FF4 addresses:

Introduction: Feature Codes in Programming Mode

Use the **Feature Codes** table below for all FF4 addresses. (Some features cannot be programmed into soft keys; these features are noted in the table below.)

The codes shown in the "Fixed Feature Codes" column are hard-coded and cannot be changed. However, most of the features can also be assigned another "flexible" code in **FF1 2: Dial Plan (pg. 1-167)** for end-user programming. Exceptions are noted in the table below.

When assigning features to keys in Programming Mode, you must always use the Fixed Feature Code. However, end-users programming their own keys can use the Flexible Code.

If the Flexible Codes are changed in the **Dial Plan,** it is not necessary to reprogram extensions. When an end-user programs a Flexible Code into an FF-key or soft key, ***the system will translate the Flexible Code into the Fixed Code.*** The end-user can still press the same FF-key or soft key to perform the feature, even if the feature's Flexible Code is changed in programming.

When you display the FF-key or soft key setting, it will always show the Fixed Code.

FF4
FF-/Soft Keys

Table 4-1. FF-Key/Soft Key Fixed Feature Codes

NOTE: All features can be programmed on FF-Keys, and most (but not all) can also be programmed on Soft Keys (the "Soft Key" column will be shaded for exceptions). Also, some features cannot be assigned a Flexible Code for end-users, and can be set only in Programming Mode (the "End-User" column will be shaded for these exceptions).

Feature	Description	Fixed Feature Code + (additional digits to program into key)	End-User	Soft Key
Public Exchange Line Key		# + (Exch.Line 1-576)		
MCO Exchange Line Key	For incoming **and** outgoing calls. MCO No. 1 = "9" access code MCO No. 2 = "81" access code MCO No. 3 = "82" access code MCO No. 4 = "83" access code MCO No. 5 = "84" access code	1 + (MCO 1-5) + (MCO-Incoming Group 00-99)		
Virtual Port Key		∗9 + (VirtualPort 001-576)		
DSS/BLF - Outgoing only	Call ext. / View status only.	9 + (Extension 0-9999)	End-User	Soft Key
DSS/BLF - Immediate Ring	Call ext. / View status / Also rings immediately for incoming call (can answer).	81 + (Extension 0-9999)	End-User	
DSS/BLF - Delayed Ring	Call ext. / View status / Also delay-rings incoming call (can answer).	82 + (Extension 0-9999)	End-User	
DSS/BLF - Flash/No-Ring	Call ext. / View status / Also flashes for incoming call (can answer).	83 + (Extension 0-9999)	End-User	

Feature	Description	Fixed Feature Code + (additional digits to program into key)	End-User	Soft Key
Built-In VM Unit #1: Mailbox Access	Access mailbox options.	61 + (Mailbox No. 00-9999)		
Built-In VM Unit #2: Mailbox Access	Access mailbox options.	62 + (Mailbox No. 00-9999)		
Built-In VM Unit #3: Mailbox Access	Access mailbox options.	63 + (Mailbox No. 00-9999)		
Built-In VM Unit #4: Mailbox Access	Access mailbox options.	64 + (Mailbox No. 00-9999)		
Built-In VM Unit #1: Message Broadcast	Copy a recording to other (pre-programmed) mailboxes.	61 + (Broadcast Code 00-9999)		
Built-In VM Unit #2: Message Broadcast	Copy a recording to other (pre-programmed) mailboxes.	62 + (Broadcast Code 00-9999)		
Built-In VM Unit #3: Message Broadcast	Copy a recording to other (pre-programmed) mailboxes.	63 + (Broadcast Code 00-9999)		
Built-In VM Unit #4: Message Broadcast	Copy a recording to other (pre-programmed) mailboxes.	64 + (Broadcast Code 00-9999)		
Built-In VM: Retrieve Messages	Listen to messages in mailbox.	5 + (Mailbox No. 00-9999)		
Built-In VM: Start/Restart	2-Way Call Recording	∗#50		
Built-In VM: Stop	2-Way Call Recording	∗#51		
Built-In VM: Re-Record	(over the same call) 2-Way Call Recording	∗#52		
Built-In VM: Pause	2-Way Call Recording	∗#53		
Built-In VM: Stop/End	2-Way Call Recording	∗#54		
Built-In VM: Add Comment	(to end of recording) 2-Way Call Recording	∗#55		
Built-In VM: Clear	(delete recording) 2-Way Call Recording	∗#56		
Built-In VM: Notify	(call outside pager or phone) 2-Way Call Recording	∗#57		
Built-In VM: Copy	(a message into another mailbox) 2-Way Call Recording	∗#58		
Built-In VM: Dial Pulse/ DTMF Switch	2-Way Call Recording	∗#59		
ACD-1 Log-In/Out Button		∗#80		
ACD-1 Work Unit		∗#81 + (Work Unit 00-19)		
ACD-1 Unavailable Button		∗#82		
ACD-2 Log-In/Out Button		∗#85		
ACD-2 Work Unit		∗#86 + (Work Unit 00-19)		
ACD-2 Unavailable Button		∗#87		
Speed-Dial Send Button		∗01 + (SSD 000-799 or PSD 80-99)	End-User	Soft Key
Direct Exch.Line Access		∗02	End-User	Soft Key
Verified ID Code Send		∗03	End-User	Soft Key
Floating Hold Answer		∗04	End-User	Soft Key

Feature	Description	Fixed Feature Code + (additional digits to program into key)	End-User	Soft Key
Voice Mail Message-Waiting: Send		∗05	End-User	Soft Key
Voice Mail Message-Waiting: Cancel		∗06	End-User	Soft Key
Message-Waiting: Cancel		∗07	End-User	Soft Key
Message-Waiting: Callback		∗08	End-User	Soft Key
Call Forward (All): Set		70 + (Extension 0-9999)	End-User	Soft Key
Call Forward (All): Clear		∗09	End-User	Soft Key
Call Forward (All): Set via Attendant		∗10	End-User	Soft Key
Call Forward (All): Clear via Attendant		∗11	End-User	Soft Key
Call Forward (No Answer): Set		71 + (Extension 0-9999)	End-User	Soft Key
Call Forward (No Answer): Clear		∗12	End-User	Soft Key
Call Forward (No Answer): Set via Attendant		∗13	End-User	Soft Key
Call Forward (No Answer): Clear via Attendant		∗14	End-User	Soft Key
Call Forward (Busy): Set		72 + (Extension 0-9999)	End-User	Soft Key
Call Forward (Busy): Clear		∗15	End-User	Soft Key
Call Forward (Busy): Set via Attendant		∗16	End-User	Soft Key
Call Forward (Busy): Clear via Attendant		∗17	End-User	Soft Key
DND Set/Clear		∗18	End-User	Soft Key
DND Set from Attendant		∗19	End-User	Soft Key
DND Clear from Attendant		∗20	End-User	Soft Key
DND & Call Forward Clear		∗21	End-User	Soft Key
Alarm Set		∗22	End-User	Soft Key
Alarm Clear		∗23	End-User	Soft Key
BGM On/Off		∗24	End-User	Soft Key
Day 1/Night Toggle		∗25	End-User	Soft Key
Day 2		∗26	End-User	Soft Key
Night 1		∗27	End-User	Soft Key
Night 2 (for Built-In VM)		∗28	End-User	Soft Key
Paging		∗29 + (Page Group 0-9)	End-User	Soft Key
Meet-Me Answer		∗30	End-User	Soft Key
Call Pickup Group/ All Calls		∗31	End-User	Soft Key
Call Pickup Group/ Public-Exch. Calls Only		∗32	End-User	Soft Key
Call Pickup Group/ Specified	Pick up a call in another Call Pickup Group.	∗33 + (Call Pickup Group 1-99)	End-User	Soft Key

Feature	Description	Fixed Feature Code + (additional digits to program into key)	End-User	Soft Key
Direct Call Pickup		73 + (Extension 0-9999)	End-User	Soft Key
Public Exchange Line Call Pickup		∗34	End-User	Soft Key
Headset Mode On/Off		∗35	End-User	Soft Key
3-party Conference Key		∗36	End-User	Soft Key
Transfer Key		∗37	End-User	Soft Key
Program Key		∗38	End-User	Soft Key
Recall - Flash Key		∗39		Soft Key
PSD Name Assignment		∗40	End-User	Soft Key
Ext. Directory Name Assignment		∗41	End-User	Soft Key
Speed-Dial Directory Name Assignment		∗42	End-User	Soft Key
MCO-1 Access	For outgoing calls (default: 9)	∗43	End-User	Soft Key
MCO-2 Access	For outgoing calls (default: 81)	∗44	End-User	Soft Key
MCO-3 Access	For outgoing calls (default: 82)	∗45	End-User	Soft Key
MCO-4 Access	For outgoing calls (default: 83)	∗46	End-User	Soft Key
MCO-5 Access	For outgoing calls (default: 84)	∗47	End-User	Soft Key
NOTE: No more than 5 MCO keys can be assigned per phone.				
Mic/Mute (Talkback Key)		∗48		Soft Key
Callback at Busy Tone		∗49	End-User	Soft Key
Camp-On at Busy Tone		∗50	End-User	Soft Key
Message-Waiting Set at Busy Tone		∗51	End-User	Soft Key
Message-Waiting Priority Set at Busy Tone		∗52	End-User	Soft Key
Busy Override Send		∗53	End-User	Soft Key
Switch to Voice Call at Ringback Tone		∗54	End-User	Soft Key
Message-Waiting Set at Ringback Tone		∗55	End-User	Soft Key
Message-Waiting Priority Set at Ringback Tone		∗56	End-User	Soft Key
Account Code Entry		∗57	End-User	Soft Key
8-Party Conference		∗58	End-User	Soft Key
Extension Port Number Confirm		∗59	End-User	Soft Key
Exchange-Line Port No. Confirm		∗60	End-User	Soft Key
Voice Mail Transfer Key #1		74 + (VM Voice Port Ext.No. 0-9999)	End-User	Soft Key
Voice Mail Transfer Key #2		75 + (VM Pilot Ext.No. 0-9999)	End-User	Soft Key
Variable Mode		∗61	End-User	Soft Key

Feature	Description	Fixed Feature Code + (additional digits to program into key)	End-User	Soft Key
Call Logging Confirmation Mode		∗62	End-User	Soft Key
Station Call Park Hold/ Answer		∗63	End-User	Soft Key
Station Call Park Hold		∗64	End-User	Soft Key
Station Call Park Answer (own extension)		∗65	End-User	Soft Key
Station Call Park Answer (other extensions)		∗66	End-User	Soft Key
Station Call Park Transfer		∗67	End-User	Soft Key
Release Key	for headset on regular phone	∗68		
Answer Key	for headset on regular phone	∗69		
OHVA		∗70	End-User	Soft Key
Split Key	OHVA/Silent Transfer/Talkback	∗71	End-User	
Walking TRS		∗72	End-User	
ANY Key (all CPCs-Version 1.3 or higher)	Change phone status to “Monitor ON”; put current Public-Exch.Line call on hold. *NOTE: The “ANY” key LED won’t light.*	∗8 + (up to 4 digits, including 0-9, #, ∗)	End-User	Soft Key

FF4 0: FF-Keys on Digital Keyphones, SLTs, and EM/24 Units

Before Programming:

- ❒ The extension's Phone Type must be set to "1=Digital Keyphone or SLT" (default) or "2=EM/24." See **Phone Type (pg. 3-3): FF3 0 BSSC 00 Hold (1-3) Hold**.
- ❒ Although SLTs do not have Flexible Function Keys, the following addresses can be used for assigning exchange line or Virtual Port ringing to them.
- ❒ There are 32 assignments for FF-keys in the following FF4 0 addresses. The largest phone programmed by this address, the 24-key Small Display phone (see illustration, next page) has 24 FF-keys. The remaining 8 assignments for this phone can be used for Virtual Port ringing. Virtual Ports can also be assigned on other phones using the extra FF-key assignments.

FF-Key Feature Assignment (Digital Keyphones, SLTs, EM/24s)

BSSC-00 :#1
FF Assign

(all CPCs) - Version 2.0 or higher

Assign Feature Codes to the FF-keys on digital keyphones, SLTs, or EM/24 units.

(to clear current feature assignment)

FF4 0 BSSC 0 (01-32) Hold FL/R (Code) Hold

BSSC: Extension Port Position -
B=CCU 1-6
SS=Slot 01-12
C=Circuit 1-8

01=FF1 key
02=FF2 key
03=FF3 key
...
32=FF32 key

Feature Code Assignment (see pg. 4-2)
initial default: [no assignment]

See figures starting on pg. 4-8 for FF-key numbering on phones.

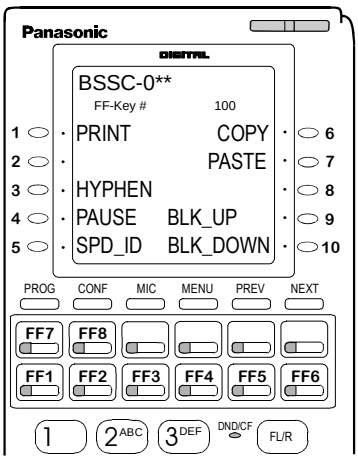
Notes:

To copy FF-key and ring assignments from one phone to another, use the COPY and PASTE commands (soft keys 6 and 7) as follows:

(1) Enter the first part of the above address without specifying an FF-key number to program:
FF4 0 BSSC 0 Hold (for **BSSC**, enter the port position of the phone you want to copy settings from)

(2) Press the COPY soft key. The display won't change, but the phone will beep once to indicate it has recognised the copy command.

(3) Use the BLK-DOWN or BLK_UP soft key to toggle to the next extension you want to copy to. The display will change to the new BSSC port position and extension number assignment.

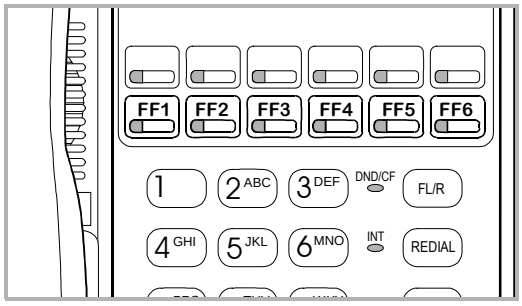


(4) Press the PASTE soft key. The display won't change, but the phone will beep once to indicate the paste command.

(5) Repeat steps (3) and (4) for all extensions you want to copy to.

EM/24 units require their own extension port, separate from the phone. Therefore, when programming the FF-keys on an EM/24 unit, enter the EM/24 port position (not the phone's port position).

If you assign the FF-key as an Exchange Line (public exchange or MCO), Virtual Port, or DSS/BLF Key: FF1 through FF6 on the phone will become toggle switches for the **Exchange-Line FF-Key** addresses starting on pg. 4-10. These keys will be lit either ***green for a "0"*** setting, or ***red for a "1"*** setting. Press the corresponding FF-key to change the setting:



FF1 = Outbound Call Restriction	(green/0=Allow)
FF2 = Inbound Answer Restriction	(green/0=Allow)
FF3 = Day1 Ringing	(green/0=Do not ring)
FF4 = Day2 Ringing	(green/0=Do not ring)
FF5 = Night Ringing	(green/0=Do not ring
FF6 = No-Ring Auto Answer	(green/0=Disabled-No effect)

NOTE: This applies only if you start from the FF4 0 BSSC 0 address (not if you punch-in the address directly).

FF4
FF-/Soft Keys

For Example: Extension No. 300 is located in CCU 1, Card Slot 01, Circuit 1. Extension 300's FF1 key is already assigned Exchange Line #1. To restrict incoming calls for FF1 (Exchange Line #1), first display FF1's assignment:

... punch in: **FF4 0 1011 001 Hold** LCD display shows:

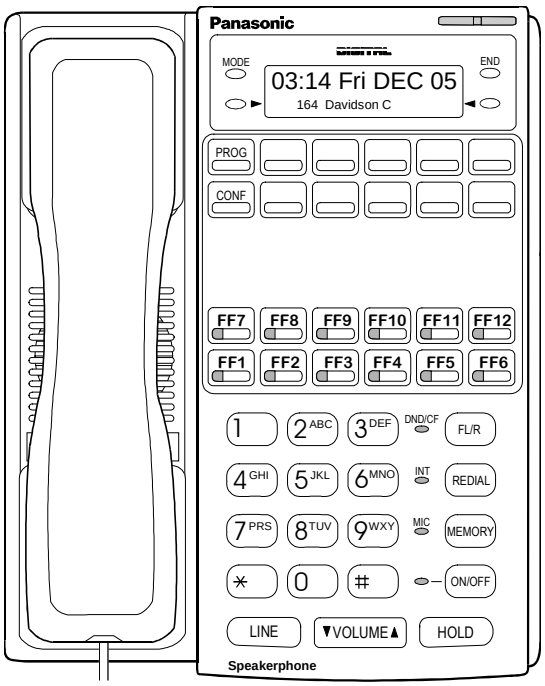
(FF1 thru FF6 are all lit green for "0" setting)

... punch **FF2** to restrict incoming calls for Exchange Line #1 on the FF1 key. FF2 will now be lit red for "1=Restrict". (Corresponding address is FF4 0 BSSC 101 Hold CONF Hold 1 Hold.)

Related Programming:

Figure 4-1: FF-key layout on a Small Display phone

12-key Small Display phone



24-key Small Display phone

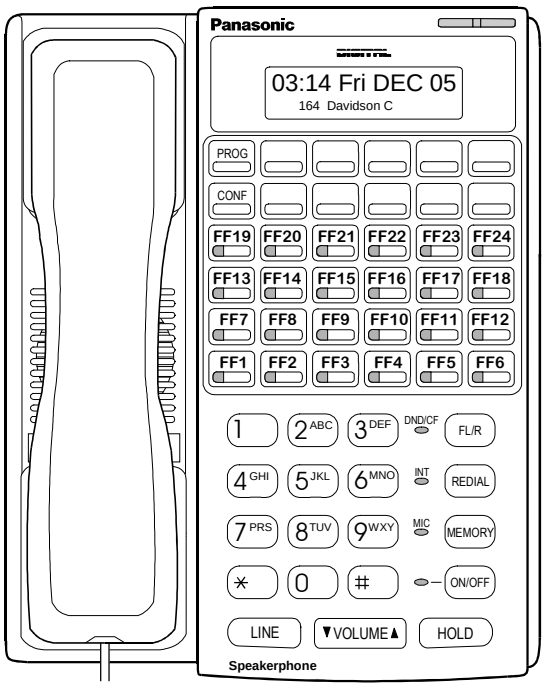
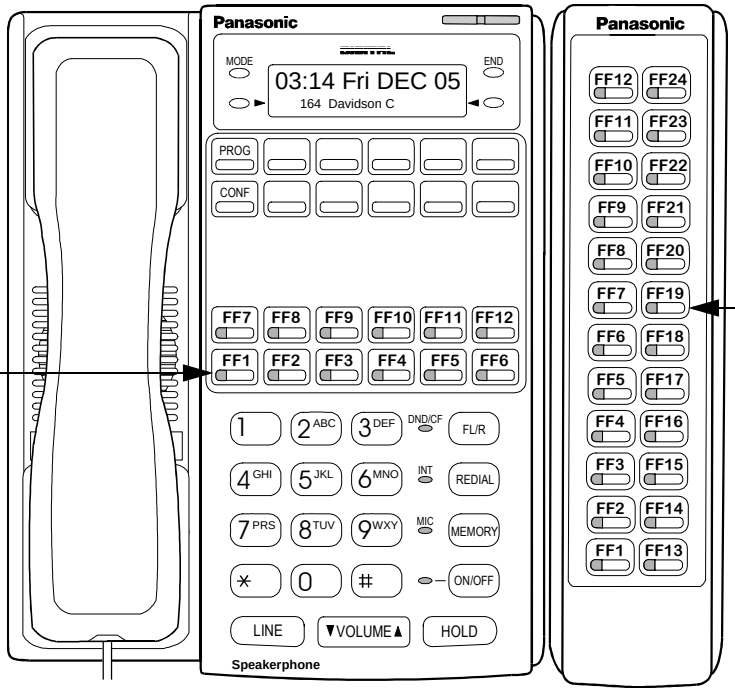


Figure 4-2: FF-key layout on an EM/24 unit

EM/24 Unit (mated with a 12-key Small Display phone)



To program these FF-keys on the Large-LCD phone, enter the phone's extension port position (BSSC) in the FF4 0 address.

To program these FF-keys on the EM/24 Unit, enter the EM/24's extension port position (BSSC) in the FF4 0 address.

Exchange-Line FF-Key: Outbound Call Restriction

BSSC-1011:0
Outgoing TRS

(all CPCs) - Version 2.0 or higher

(for digital keyphones, SLTs, and EM/24s) Allow/Restrict outbound calls on the FF-key programmed as a public-exchange line, MCO exchange-line group, Virtual Port, or DSS/BLF key.

FF4 0 BSSC 1 (01-32) Hold CONF (0 or 1) Hold

BSSC: Extension Port Position -
B=CCU 1-6
SS=Slot 01-12
C=Circuit 1-8

01=FF1 key
02=FF2 key
03=FF3 key
...
32=FF32 key

0=Allow outbound calls on this FF-key. (default)

1=Do Not Allow outbound calls on this FF-key.

Notes:

The LCD display will show the allow/restrict settings for this and the next 5 addresses after the first "Hold" is pressed in the above address:

BSSC-101*:xoxxxx
Key INFO

X = setting "0"
O = setting "1"

If **Outbound Call Restriction** is set to **"0=Allow" (default)**, and **Inbound Answer Restriction** is set to "1=Do Not Allow", the FF-key cannot be used while an incoming call is ringing in on it (the LED will blink green). Once the call is answered on another phone, however, the LED will extinguish and the FF-key will become available for making an outbound call.

To set delayed ringing for exchange-line FF-keys, use the **Day1/2/Night Delayed Ring Type/ Destination** addresses in FF2.

Related Programming:

Exchange-Line Key Operation: Direct Calls (pg. 3-14) FF3 0 BSSC 04 12 Hold (0 or 1) Hold
Exchange-Line Key Operation: HOLD (pg. 3-15) FF3 0 BSSC 04 13 Hold (0 or 1) Hold
Exchange-Line Key Operation: Multiple Call Pickup (pg. 3-15) FF3 0 BSSC 04 14 Hold (0 or 1) Hold
Exchange-Line Key Operation: Brokers Hold (pg. 3-16) FF3 0 BSSC 04 15 Hold (0 or 1) Hold

Exchange-Line FF-Key: Inbound Answer Restriction

BSSC-1012:0
Incoming TRS

(all CPCs) - Version 2.0 or higher

(for digital keyphones, SLTs, and EM/24s) Allow/Restrict the ability to answer incoming calls on the FF-key programmed as a public-exchange line, MCO exchange-line group, Virtual Port, or DSS/BLF key.

FF4 0 BSSC 1 (01-32) Hold CONF Hold (0 or 1) Hold

BSSC: Extension Port Position -
B=CCU 1-6
SS=Slot 01-12
C=Circuit 1-8

01=FF1 key
02=FF2 key
03=FF3 key
...
32=FF32 key

0=Allow answering inbound calls on this FF-key. (default)

1=Do Not Allow answering inbound calls on this FF-key.

Notes:

If **Inbound Answer Restriction** is set to "1=Do Not Allow," the FF-key will still flash green for an incoming public-exchange or MCO call, although the user won't be able to answer it.

Related Programming:

FF4
FF-/Soft Keys

Exchange-Line FF-Key: Day1 Ringing

BSSC-1013:0
Day1 Ring Assign

(all CPCs) - Version 2.0 or higher

(for digital keyphones, SLTs, and EM/24s) Allow/Restrict phone ringing during Day1 mode for an incoming call on the FF-key programmed as a public-exchange line, MCO exchange-line group, Virtual Port, or DSS/BLF key.

FF4 0 BSSC 1 (01-32) Hold CONF Holdx2 (0 or 1) Hold

BSSC: Extension Port Position -
B=CCU 1-6
SS=Slot 01-12
C=Circuit 1-8

01=FF1 key
02=FF2 key
03=FF3 key
...
32=FF32 key

0=Do Not Ring inbound calls on this FF-key during Day1 mode. (default)

1=Ring inbound calls on this FF-key during Day1 mode.

Notes:

Even if this address is set to **"0=Do Not Ring" (default)**, the user can still pick up the incoming call by pressing the FF-key, as long as **Inbound Answer Restriction** (pg. 4-11) is set to **"0=Allow" (default)**.

(all CPCs - Version 2.5 or higher) For DSS/BLF keys, if this address is set to "1=Ring," Auto-Answer will apply; user simply picks up the handset to answer the incoming call on the DSS/BLF key.

Related Programming:

BLF Call Pickup (pg. 1-24) FF1 0 01 0006 Hold (0 or 1) Hold

Exchange-Line FF-Key: Day2 Ringing

BSSC-1014:0
Day2 Ring Assign

(all CPCs) - Version 2.0 or higher

(for digital keyphones, SLTs, and EM/24s) Allow/Restrict phone ringing during Day2 mode for an incoming call on the FF-key programmed as a public-exchange line, MCO exchange-line group, Virtual Port, or DSS/BLF key.

FF4 0 BSSC 1 (01-32) Hold CONF Holdx3 (0 or 1) Hold

BSSC: Extension Port Position -
B=CCU 1-6
SS=Slot 01-12
C=Circuit 1-8

01=FF1 key
02=FF2 key
03=FF3 key
...
32=FF32 key

0=Do Not Ring inbound calls on this FF-key during Day2 mode. (default)

1=Ring inbound calls on this FF-key during Day2 mode.

Notes: **(same as Day1 Ringing)**

FF4
FF-/Soft Keys

Related Programming: **(same as Day1 Ringing)**

Exchange-Line FF-Key: Night Ringing

BSSC-1015:0
Night R-Assign

(all CPCs) - Version 2.0 or higher

(for digital keyphones, SLTs, and EM/24s) Allow/Restrict phone ringing during Night mode for an incoming call on the FF-key programmed as a public-exchange line, MCO exchange-line group, Virtual Port, or DSS/BLF key.

FF4 0 BSSC 1 (01-32) Hold CONF Holdx4 (0 or 1) Hold

BSSC: Extension Port Position -
B=CCU 1-6
SS=Slot 01-12
C=Circuit 1-8

01=FF1 key
02=FF2 key
03=FF3 key
...
32=FF32 key

0=Do Not Ring inbound calls on this FF-key during Night mode. (default)

1=Ring inbound calls on this FF-key during Night mode.

Notes: **(same as Day1 Ringing)**

Related Programming: **(same as Day1 Ringing)**

Exchange-Line FF-Key: No-Ring Auto Answer

BSSC-1016:0
No-Ring Auto ANS

(all CPCs) - Version 2.0 or higher

(for digital keyphones, SLTs, and EM/24s) Allow/Restrict the phone's ability to answer incoming calls that are blinking, but not ringing, on the FF-key programmed as a public-exchange line, MCO exchange-line group, Virtual Port, or DSS/BLF key, simply by picking up the handset.

FF4 0 BSSC 1 (01-32) Hold CONF Holdx5 (0 or 1) Hold

BSSC: Extension Port Position -
B=CCU 1-6
SS=Slot 01-12
C=Circuit 1-8

01=FF1 key
02=FF2 key
03=FF3 key
...
32=FF32 key

0=Disabled; this address has no effect. (default)

1=Enabled; pick up handset to answer call. (don't have to press FF-key)

Notes:

Even if this is set to "1=Enabled," pressing ON/OFF will not pick up the call; the user must pick up the handset to answer the call.

Related Programming:

BLF Call Pickup (pg. 1-24) FF1 0 01 0006 Hold (0 or 1) Hold

FF4 1: FF-Keys on DSS/72 Consoles

Before Programming:

❒ The DSS/72 port's **Phone Type (pg. 3-3)** must be set to "3=DSS/72."

FF-Key Feature Assignment (DSS/72)

BSSC-001 : Function# nnnn

(all CPCs) - Version 2.0 or higher

(for DSS/72 Consoles) Assign Feature Codes to the FF-keys.

(to clear current feature assignment)

FF4 1 BSSC 0 (01-72) Hold FL/R (Code) Hold

BSSC: Attendant Port Position -
B=CCU 1-6
SS=Slot 01-12
C=Circuit 1-8

01=FF1 key
02=FF2 key
03=FF3 key
...
72=FF72 key

Feature Code Assignment (see pg. 4-2)

initial default: [no assignment]

See figure below for FF-key numbering on a DSS/72.

FF4
FF-/Soft Keys

Notes:

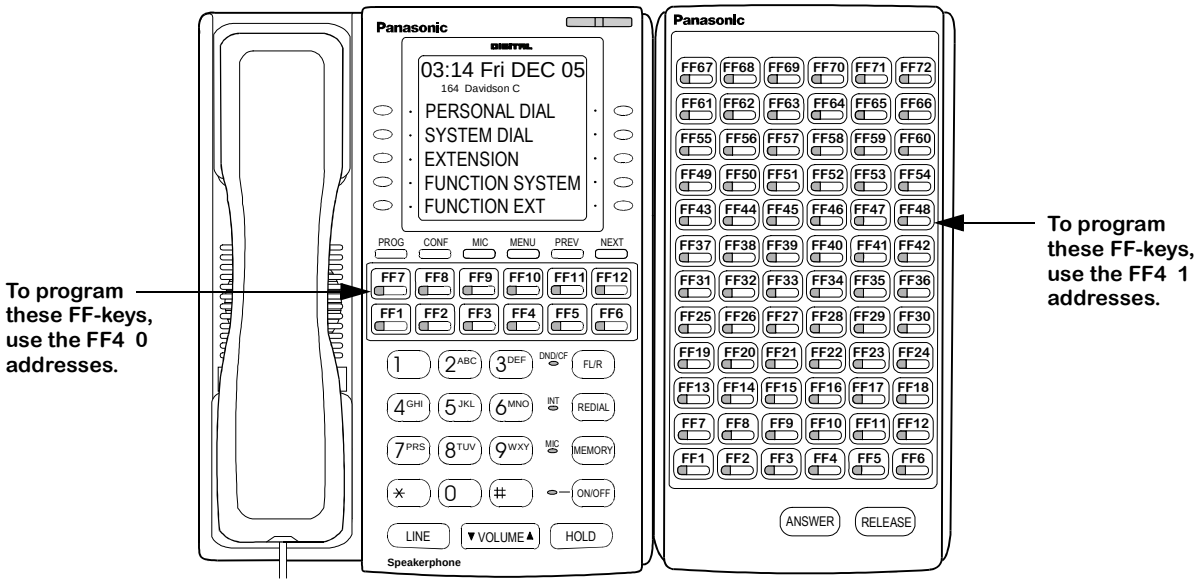
See **Notes** on pg. 4-7. The same applies to DSS/72 consoles.

Related Programming:

Phone Type (pg. 3-3) on extensions **FF3 0 BSSC 00 Hold (1-3) Hold**

Figure 4-3: FF-key layout on a DSS/72 Attendant Console

DSS/72 Console (mated with a Large Display phone)



DSS Exch.Line FF-Key: Outbound Call Restriction

BSSC-1011:0
Outgoing TRS

(all CPCs) - Version 2.0 or higher

(for DSS/72 Consoles) Allow/Restrict outbound calls on the FF-key programmed as a public-exchange line, MCO exchange-line group, Virtual Port, or DSS/BLF key.

FF4 1 BSSC 1 (01-72) Hold CONF (0 or 1) Hold

BSSC: Attendant Port Position -
B=CCU 1-6
SS=Slot 01-12
C=Circuit 1-8

01=FF1 key
02=FF2 key
03=FF3 key
...
72=FF72 key

0=Allow outbound calls on this FF-key. (default)

1=Do Not Allow outbound calls on this FF-key.

Notes:

The LCD display will show the allow/restrict settings for this and the next 5 addresses after the first "Hold" is pressed in the above address:

BSSC-101*:xoxxxx
Key INFO

X = setting "0"
O = setting "1"

If **Outbound Call Restriction** is set to **"0=Allow" (default)**, and **Inbound Answer Restriction** is set to "1=Do Not Allow", the FF-key can't be used while an incoming call is ringing in on it (the LED will blink green). Once the call is answered on another phone, however, the LED will extinguish and the FF-key will become available for making an outbound call.

To set delayed ringing for exchange-line FF-keys, use the **Day1/2/Night Delayed Ring Type/ Destination** addresses in FF2.

Related Programming:

Exchange-Line Key Operation: Direct Calls (pg. 3-14) FF3 0 BSSC 04 12 Hold (0 or 1) Hold
Exchange-Line Key Operation: HOLD (pg. 3-15) FF3 0 BSSC 04 13 Hold (0 or 1) Hold
Exchange-Line Key Operation: Multiple Call Pickup (pg. 3-15) FF3 0 BSSC 04 14 Hold (0 or 1) Hold
Exchange-Line Key Operation: Brokers Hold (pg. 3-16) FF3 0 BSSC 04 15 Hold (0 or 1) Hold

FF4
FF-/Soft Keys

DSS Exch.Line FF-Key: Inbound Answer Restriction

BSSC-1012:0
Incoming TRS

(all CPCs) - Version 2.0 or higher

(for DSS/72 Consoles) Allow/Restrict the ability to answer incoming calls on the FF-key programmed as a public-exchange line, MCO exchange-line group, Virtual Port, or DSS/BLF key.

FF4 1 BSSC 1 (01-72) Hold CONF Hold (0 or 1) Hold

BSSC: Attendant Port Position -
B=CCU 1-6
SS=Slot 01-12
C=Circuit 1-8

01=FF1 key
02=FF2 key
03=FF3 key
...
72=FF72 key

0=Allow inbound answer on this FF-key. (default)

1=Do Not Allow inbound answer on this FF-key.

Notes:

If this address is set to "1=Do Not Allow," the FF-key will still flash green for an incoming public-exchange or MCO call, although the user won't be able to answer it.

Related Programming:

FF4
FF-/Soft Keys

DSS Exch.Line FF-Key: Day1 Ringing

BSSC-1013:0
Day1 Ring Assign

(all CPCs) - Version 2.0 or higher

(for DSS/72 Consoles) Allow/Restrict phone ringing for an incoming call during Day1 mode on the FF-key programmed as a public-exchange line, MCO exchange-line group, Virtual Port, or DSS/BLF key.

FF4 1 BSSC 1 (01-72) Hold CONF Holdx2 (0 or 1) Hold

BSSC: Attendant Port Position -
B=CCU 1-6
SS=Slot 01-12
C=Circuit 1-8

01=FF1 key
02=FF2 key
03=FF3 key
...
72=FF72 key

0=Do Not Ring inbound calls on this FF-key during Day1 mode. (default)

1=Ring inbound calls on this FF-key during Day1 mode.

Notes:

Even if this address is set to **"0=Do Not Ring" (default)**, the user can still pick up the incoming call by pressing the FF-key, as long as **Inbound Answer Restriction** is set to **"0=Allow" (default)**.

(all CPCs - Version 2.5 or higher) For DSS/BLF keys, if this address is set to "1=Ring," Auto-Answer will apply; user simply picks up the handset to answer the incoming call on the DSS/BLF key.

Related Programming:

BLF Call Pickup (pg. 1-24) FF1 0 01 0006 Hold (0 or 1) Hold

DSS Exch.Line FF-Key: Day2 Ringing

BSSC-1014:0
Day2 Ring Assign

(all CPCs) - Version 2.0 or higher

(for DSS/72 Consoles) Allow/Restrict phone ringing for an incoming call during Day2 mode on the FF-key programmed as a public-exchange line, MCO exchange-line group, Virtual Port, or DSS/BLF key.

FF4 1 BSSC 1 (01-72) Hold CONF Holdx3 (0 or 1) Hold

BSSC: Attendant Port Position -
B=CCU 1-6
SS=Slot 01-12
C=Circuit 1-8

01=FF1 key
02=FF2 key
03=FF3 key
...
72=FF72 key

0=Do Not Ring inbound calls on this FF-key during Day2 mode. (default)

1=Ring inbound calls on this FF-key during Day2 mode.

Notes: **(same as Day1 Ringing)**

Related Programming: **(same as Day1 Ringing)**

FF4
FF-/Soft Keys

DSS Exch.Line FF-Key: Night Ringing

BSSC-1015:0
Night R-Assign

(all CPCs) - Version 2.0 or higher

(for DSS/72 Consoles) Allow/Restrict phone ringing for an incoming call on during Night mode on the FF-key programmed as a public-exchange line, MCO exchange-line group, Virtual Port, or DSS/BLF key.

FF4 1 BSSC 1 (01-72) Hold CONF Holdx4 (0 or 1) Hold

BSSC: Attendant Port Position -
B=CCU 1-6
SS=Slot 01-12
C=Circuit 1-8

01=FF1 key
02=FF2 key
03=FF3 key
...
72=FF72 key

0=Do Not Ring inbound calls on this FF-key during Night mode. (default)

1=Ring inbound calls on this FF-key during Night mode.

Notes: **(same as Day1 Ringing)**

Related Programming: **(same as Day1 Ringing)**

DSS Exch.Line FF-Key: No-Ring Auto Answer

BSSC-1016:0
No-Ring Auto ANS

(all CPCs) - Version 2.0 or higher

(for DSS/72 Consoles) Allow/Restrict the phone's ability to answer incoming calls that are blinking, but not ringing, on on the FF-key programmed as a public-exchange line, MCO exchange-line group, Virtual Port, or DSS/BLF key, simply by picking up the handset.

FF4 1 BSSC 1 (01-72) Hold CONF Holdx5 (0 or 1) Hold

BSSC: Attendant Port Position -
B=CCU 1-6
SS=Slot 01-12
C=Circuit 1-8

01=FF1 key
02=FF2 key
03=FF3 key
...
72=FF72 key

0=Disabled; this address has no effect. (default)

1=Enabled; pick up handset to answer call. (no need to press FF-key)

Notes:

Even if this is set to "1=Enabled," pressing ON/OFF will not pick up the call; the user must pick up the handset to answer the call.

Related Programming:

BLF Call Pickup (pg. 1-24) **FF1 0 01 0006 Hold (0 or 1) Hold**

FF4 2: Soft Keys on Display Phones

Before Programming:

- ❒ This address applies to both Large Display and Small Display phones.
- ❒ The extension's **Phone Type (pg. 3-3)** must be set to **"1=Digital Keyphone" (default)**.

Soft Key Feature Assignment

BSSC-001 :
Function # nnnn

(all CPCs) - Version 2.0 or higher

Assign Feature Codes to the soft keys on Large Display and Small Display phones.

FF4 2 BSSC 0 (01-30) Hold (Code) Hold

BSSC: Extension Port Position -
B=CCU 1-6
SS=Slot 01-12
C=Circuit 1-8

01-10: during Dial Tone or dialling
11-15: during Ringback Tone
16-20: during Busy Tone
21-25: during OHVA/Receive
26-30=during Talk

Feature Code Assignment (see pg. 4-2)

default: [no assignment]

(See figures, next page, for soft key numbering on phones)

FF4 FF-/Soft Keys

Notes:

These features will apply in the following modes:

- ❒ **On Large Display phones,** press the **FUNCTION EXT** soft key to access these features. Up to 5 features are displayed at a time, and are executable by pressing the soft keys on the left side of the LCD. During Dial Tone or dialling (which can have up to 10 feature assignments), press the **NEXT** or **PREV** keys to toggle between the 2 screens of 5 functions each. Press the **MENU** key to exit.
- ❒ **On Small Display phones,** activate Variable Mode (default code = ***61**, or press the FF-key programmed with this code). One feature at a time is displayed, and can be executed by pressing the EXEC (R) or (L). Use the ▼ **VOLUME** ▲ key to change the feature name to be displayed. Press the FF-key again to exit.

Variable Mode ON:	Variable Mode OFF:
FUNC DISP ON [assigned function]	FUNC DISP OFF 100 Panasonic
(FF-key: lit red)	(FF-key: unlit)

Related Programming:

Dial Plan Assignment (pg. 3-27) to extensions — **FF3 0 BSSC 09 Hold (1 or 2) Hold**

Flexible Feature Codes ...

- **at Dial Tone, for Dial Plan "A" (pg. 1-168)** — **FF1 2 02 (0001-0056) Hold (max. 4-digit Code) Hold**
- **at Dial Tone, for Dial Plan "B" (pg. 1-170)** — **FF1 2 03 (0001-0056) Hold (max. 4-digit Code) Hold**

at Ringback Tone, for Dial Plan "A" (pg. 1-172) FF1 2 04 (0001-0010) Hold (1-digit Code) Hold
at Ringback Tone, for Dial Plan "B" (pg. 1-173) FF1 2 05 (0001-0010) Hold (1-digit Code) Hold
at Busy Tone, for Dial Plan "A" (pg. 1-174) FF1 2 06 (0001-0010) Hold (1-digit Code) Hold
at Busy Tone, for Dial Plan "B" (pg. 1-175) FF1 2 07 (0001-0010) Hold (1-digit Code) Hold

Figure 4-4: Soft key layout on a Large Display phone

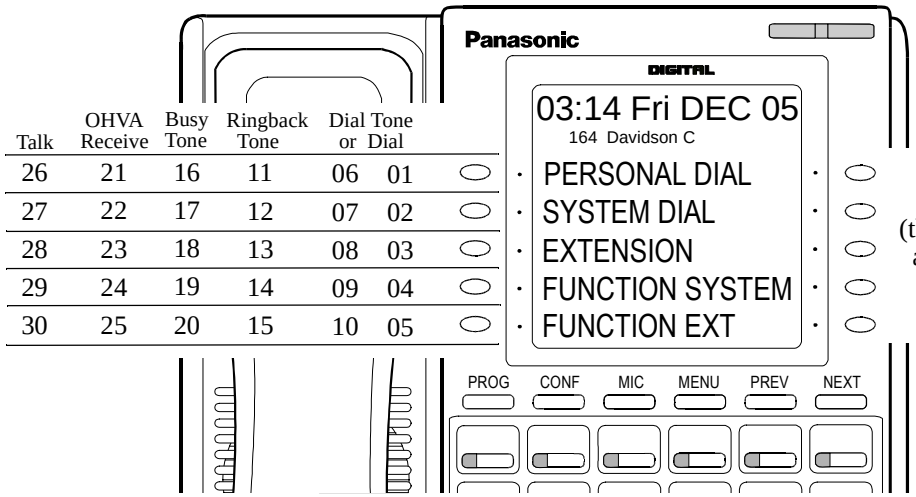
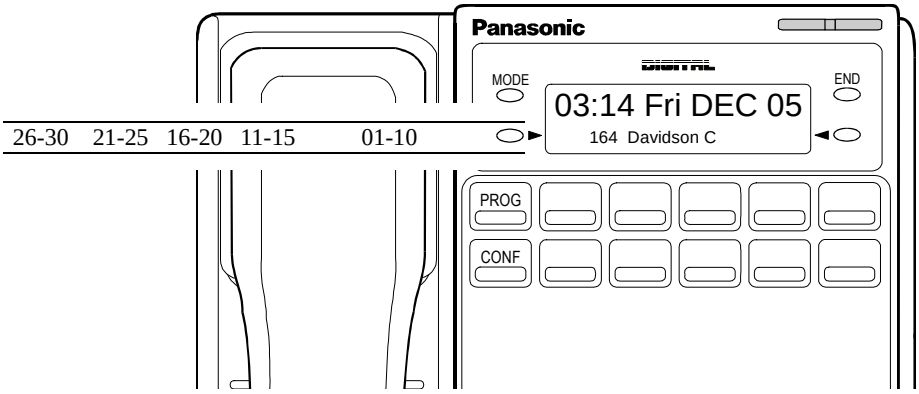


Figure 4-5: Soft key layout on a Small Display phone



5. Groups (FF5)

Use the FF5 programming addresses in this chapter to set parameters for the following groups in the ICX:

FF5 0: Attendant Hunt Group
FF5 1: Extension Hunt Groups
FF5 2: MCO Outbound Exchange-Line Groups
FF5 3: MCO Inbound Exchange-Line Groups
FF5 4: Paging Groups
FF5 5: Hot Line Group
FF5 6: Call Pickup Groups

This chapter covers the following FF5 addresses:

FF5 0: Attendant Hunt Group

Attendant HG: Pilot Number

01-01 :0
ATT Pilot #

(all CPCs) - Version 2.0 or higher

Enter the pilot number for the system's Attendant Hunt Group.

FF5 0 01 Hold (0-9999) Hold

Attendant Hunt Group Pilot No. 0-9999
(digit length: 1-4 digits - must match Extenson No. configuration)

default: 0

Notes:

Only one Attendant Hunt Group is allowed per system.

A pilot number is a "phantom" extension number not assigned to a physical port. In pilot hunting, calls are directed to the pilot number and sent to hunt group members from there.

Related Programming:

FF5 Groups

Attendant HG: Day1 Hunt Mode

02-01 :1
ATT-D1 Hunt Mod

(all CPCs) - Version 2.0 or higher

Set the hunting method for the Attendant Hunt Group during Day1 mode.

FF5 0 02 01 Hold (0-2) Hold

Day1
Attendant Hunt Group

0=no hunting
1=Pilot Terminal hunting (default)
2=Pilot Distributed hunting

(see explanation in **Notes** below)

NOTE: If this address is reset to 0=no hunting, the members in the next address will be automatically cleared.

Notes:

Pilot Terminal hunting. Calls are directed to the pilot number. Member #1 is tried first. Hunting proceeds forward through the sequential members to the end of the hunt group. If Member #20 (last member) doesn't answer, the call returns to Member #1 again, and the hunt cycle repeats until a member answers the call, or the Queuing Timer expires (whichever occurs first).

Pilot Distributed hunting. Calls are directed to the pilot number. Hunting begins at the next sequential member after the member that received the last call. Hunting then proceeds forward from that member, to the end of the hunt group. If Member #20 (last member) doesn't answer, the call goes to Member #1, and hunting proceeds forward through the entire hunt group. The latter hunt cycle (Member #1 thru Member #20) repeats until a member answers the call, or the Queuing Timer expires (whichever occurs first).

Related Programming:

Attendant HG: Day1 Members

02-02 : ATT-D1 Member

(all CPCs) - Version 2.0 or higher

Assign extensions as members of the Attendant Hunt Group during Day1 mode.

FF5 0 02 (02-21) Hold (0-9999) Hold

FF5 Groups

Day1
Attendant Hunt Group

Member Position:
02=Member #1
03=Member #2
04=Member #3
...
21=Member #20

Extension No. 0-9999

default: [no assignment]

Notes:

Day1 Attendant Hunt Group Members can also be **Day2** and **Night Attendant Hunt Group Members.** However, an **Extension Hunt Group Member** cannot also be an **Attendant Hunt Group Member.**

Related Programming:

Attendant HG: Day1 Delayed (No Answer) Hunt Timer

02-22 :0
ATT-D1 Delayed

(all CPCs) - Version 2.0 or higher

Set the amount of time before an unanswered call ringing an idle member in the Attendant Hunt Group, is forwarded to the next member during Day1.

FF5 0 02 22 Hold (0-255) Hold

Day1
Attendant Hunt Group

Delayed (No Answer) Hunt Timer:
0=stay at idle extension (default)
1-255=no. of seconds

Notes:

Related Programming:

Attendant HG: Day1 Queuing Timer

02-23 :0
ATT-D1 Queuing

(all CPCs) - Version 2.0 or higher

Set the amount of time an incoming call is queued in the Attendant Hunt Group (waiting for a member to become available) before being forwarded to the next hunt group or extension, during Day1 mode.

FF5 0 02 23 Hold (0-255) Hold

Day1
Attendant Hunt Group

Queuing Timer:
0=stay in the same Hunt Group (default)
1-255=no. of seconds

Notes:

A call is queued in a hunt group after the idle members are tried (once each) and the remaining members are busy.

If there is no assigned **Next Extension/Hunt Group** (see next address), intercom and network calls will be dropped after the Queuing Timer expires. Public-Exchange line calls will return to "Multiple Incoming" status.

Related Programming:

Attendant HG: Day1 Next Extension/Hunt Group (pg. 5-6) FF5 0 02 24 Hold (0-9999) Hold

Attendant HG: Day1 Next Extension/Hunt Group

02-24 :
ATT-D1 Next HUN

(all CPCs) - Version 2.0 or higher

Enter the Hunt Group pilot number or Extension number that will receive the Attendant Hunt Group's unanswered calls during Day1.

FF5 0 02 24 Hold (0-9999) Hold

Day1
Attendant Hunt Group

Next Extension/Hunt Group
(enter Hunt Group Pilot No. or Extension No.)

default: [no assignment]

Notes:

The "Hunt Group Pilot No." can be an Extension Hunt Group or Attendant Hunt Group.

The "Extension No." can be a Virtual Extension or an actual extension number.

Related Programming:

Attendant HG: Pilot Number (pg. 5-3) FF5 0 01 Hold (0-9999) Hold
Extension HG: Pilot Number (pg. 5-14) FF5 1 (01-72) 02 Hold (0-9999) Hold
Extension Number Assignment (pg. 3-40) FF3 2 (001-576) 00 Hold (0-9999) Hold
Extension Number Assignment (pg. 3-4) FF3 0 BSSC 02 Hold (0-9999) Hold

FF5
Groups

Attendant HG: Day2 Hunt Mode

03-01 :1
ATT-D2 Hunt Mod

(all CPCs) - Version 2.0 or higher

Set the hunting method for the Attendant Hunt Group during Day2 mode.

FF5 0 03 01 Hold (1 or 2) Hold

Day2
Attendant Hunt Group

1=Pilot Terminal hunting (default)
2=Pilot Distributed hunting
(see explanation in **Notes** below)

Notes:

Pilot Terminal hunting. Calls are directed to the pilot number. Member #1 is tried first. Hunting proceeds forward through the sequential members to the end of the hunt group. If Member #20 (last

member) doesn't answer, the call returns to Member #1 again, and the hunt cycle repeats until a member answers the call, or the Queuing Timer expires (whichever occurs first).

Pilot Distributed hunting. Calls are directed to the pilot number. Hunting begins at the next sequential member after the member that received the last call. Hunting then proceeds forward from that member, to the end of the hunt group. If Member #20 (last member) doesn't answer, the call goes to Member #1, and hunting proceeds forward through the entire hunt group. The latter hunt cycle (Member #1 thru Member #20) repeats until a member answers the call, or the Queuing Timer expires (whichever occurs first).

Related Programming:

Attendant HG: Day2 Members

03-02 : ATT-D2 Member

(all CPCs) - Version 2.0 or higher

Assign extensions as members of the Attendant Hunt Group during Day2 mode.

FF5 0 03 (02-21) Hold (0-9999) Hold

Day2
Attendant Hunt Group

Member Position:
02=Member #1
03=Member #2
04=Member #3
...
21=Member #20

Extension No. 0-9999
default: [no assignment]

FF5
Groups

Notes:

Day2 Attendant Hunt Group Members can also be **Day1** and **Night Attendant Hunt Group Members.** However, an **Extension Hunt Group Member** cannot also be an **Attendant Hunt Group Member.**

Related Programming:

Attendant HG: Day2 Delayed (No Answer) Hunt Timer

03-22 :0
ATT-D2 Delayed

(all CPCs) - Version 2.0 or higher

Set the amount of time before an unanswered call ringing an idle member in the Attendant Hunt Group, is forwarded to the next member during Day2.

FF5 0 03 22 Hold (0-255) Hold

Day2
Attendant Hunt Group

Delayed (No Answer) Hunt Timer:
0=stay at idle extension (default)
1-255=no. of seconds

Notes:

Related Programming:

Attendant HG: Day2 Queuing Timer

03-23 :0
ATT-D2 Queuing

(all CPCs) - Version 2.0 or higher

FF5
Groups

Set the amount of time an incoming call is queued in the Attendant Hunt Group (waiting for a member to become available) before being forwarded to the next hunt group or extension, during Day2 mode.

FF5 0 03 23 Hold (0-255) Hold

Day2
Attendant Hunt Group

Queuing Timer:
0=stay in the same Hunt Group (default)
1-255=no. of seconds

Notes:

A call is queued in a hunt group after the idle members are tried (once each) and the remaining members are busy.

If there is no assigned **Next Extension/Hunt Group** (see next address), intercom and network calls will be dropped after the Queuing Timer expires. Public-Exchange line calls will return to "Multiple Incoming" status.

Related Programming:

Attendant HG: Day2 Next Extension/Hunt Group (pg. 5-9) FF5 0 03 24 Hold (0-9999) Hold

Attendant HG: Day2 Next Extension/Hunt Group

03-24 :
ATT-D2 Next HUN

(all CPCs) - Version 2.0 or higher

Enter the Hunt Group pilot number or Extension number that will receive the Attendant Hunt Group's unanswered calls during Day2.

FF5 0 03 24 Hold (0-9999) Hold

Day2
Attendant Hunt Group

Next Extension/Hunt Group
(enter Hunt Group Pilot No. or Extension No.)

default: [no assignment]

Notes:

The "Hunt Group Pilot No." can be an Extension Hunt Group or Attendant Hunt Group.

The "Extension No." can be a Virtual Extension or an actual extension number.

Related Programming:

Attendant HG: Pilot Number (pg. 5-3) FF5 0 01 Hold (0-9999) Hold
Extension HG: Pilot Number (pg. 5-14) FF5 1 (01-72) 02 Hold (0-9999) Hold
Extension Number Assignment (pg. 3-40) FF3 2 (001-576) 00 Hold (0-9999) Hold
Extension Number Assignment (pg. 3-4) FF3 0 BSSC 02 Hold (0-9999) Hold

Attendant HG: Night Hunt Mode

04-01 :1
ATT-N Hunt Mode

(all CPCs) - Version 2.0 or higher

Set the hunting method for the Attendant Hunt Group during Night mode.

FF5 0 04 01 Hold (1 or 2) Hold

Night
Attendant Hunt Group

1=Pilot Terminal hunting. (default)
2=Pilot Distributed hunting.

Notes:

Pilot Terminal hunting. Calls are directed to the pilot number. Member #1 is tried first. Hunting proceeds forward through the sequential members to the end of the hunt group. If Member #20 (last member) doesn't answer, the call returns to Member #1 again, and the hunt cycle repeats until a member answers the call, or the Queuing Timer expires (whichever occurs first).

Pilot Distributed hunting. Calls are directed to the pilot number. Hunting begins at the next sequential member after the member that received the last call. Hunting then proceeds forward from that member, to the end of the hunt group. If Member #20 (last member) doesn't answer, the call goes to Member #1, and hunting proceeds forward through the entire hunt group. The latter hunt cycle (Member #1 thru Member #20) repeats until a member answers the call, or the Queuing Timer expires (whichever occurs first).

Related Programming:

Attendant HG: Night Members

04-02 : ATT-N Member

(all CPCs) - Version 2.0 or higher

Assign extensions as members of the Attendant Hunt Group during Night mode.

FF5 0 04 (02-21) Hold (0-9999) Hold

Night
Attendant Hunt Group

Member Position:
02=Member #1
03=Member #2
04=Member #3
...
21=Member #20

Extension No. 0-9999

default: [no assignment]

FF5
Groups

Notes:

Night Attendant Hunt Group Members can also be **Day1** and **Day2 Attendant Hunt Group Members.** However, an **Extension Hunt Group Member** cannot also be an **Attendant Hunt Group Member.**

Related Programming:

Attendant HG: Night Delayed (No Answer) Hunt Timer

04-22 :0
ATT-N Delayed T

(all CPCs) - Version 2.0 or higher

Set the amount of time before an unanswered call ringing an idle member in the Attendant Hunt Group, is forwarded to the next member during Night mode.

FF5 0 04 22 Hold (0-255) Hold

Night
Attendant Hunt Group

Delayed (No Answer) Hunt Timer:
0=stay at idle extension (default)
1-255=no. of seconds

Notes:

Related Programming:

Attendant HG: Night Queuing Timer

04-23 :0
ATT-N Queuing

(all CPCs) - Version 2.0 or higher

Set the amount of time an incoming call is queued in the Attendant Hunt Group (waiting for a member to become available) before being forwarded to the next hunt group or extension, during Night mode.

FF5 0 04 23 Hold (0-255) Hold

Night
Attendant Hunt Group

Queuing Timer:
0=stay in the same Hunt Group (default)
1-255=no. of seconds

Notes:

A call is queued in a hunt group after the idle members are tried (once each) and the remaining members are busy.

If there is no assigned **Next Extension/Hunt Group** (see next address), intercom and network calls will be dropped after the Queuing Timer expires. Public-Exchange line calls will return to "Multiple Incoming" status.

Related Programming:

Attendant HG: Night Next Extension/Hunt Group (pg. 5-12) **FF5 0 04 24 Hold (0-9999) Hold**

Attendant HG: Night Next Extension/Hunt Group

04-24 : ATT-N Next HUNT

(all CPCs) - Version 2.0 or higher

Enter the Hunt Group pilot number or Extension number that will receive the Attendant Hunt Group's unanswered calls during Night mode.

FF5 0 04 24 Hold (0-9999) Hold

Night
Attendant Hunt Group

Next Extension/Hunt Group
(enter Hunt Group Pilot No. or Extension No.)

default: [no assignment]

Notes:

The "Hunt Group Pilot No." can be an Extension Hunt Group or Attendant Hunt Group.

The "Extension No." can be a Virtual Extension or an actual extension number.

Related Programming:

Attendant HG: Pilot Number (pg. 5-3) FF5 0 01 Hold (0-9999) Hold
Extension HG: Pilot Number (pg. 5-14) FF5 1 (01-72) 02 Hold (0-9999) Hold
Extension Number Assignment (pg. 3-40) FF3 2 (001-576) 00 Hold (0-9999) Hold
Extension Number Assignment (pg. 3-4) FF3 0 BSSC 02 Hold (0-9999) Hold

FF5 1: Extension Hunt Groups

Extension HG: Hunt Mode

01-01 :1
HG Hunt Mode

(all CPCs) - Version 2.0 or higher

Set the hunting method for each Extension Hunt Group.

FF5 1 (01-72) 01 Hold (0-4) Hold

Extension Hunt Group No.

0=No hunting.
1=Pilot Terminal hunting. (default)
2=Pilot Distributed hunting.
3=Switchback hunting.
4=Circular hunting.

(see explanation in **Notes** below)

NOTE: Available range of Extension Hunt Groups is determined by the CPC installed, and the number of CCUs specified in programming (see **0: System Configuration**).

CPC INSTALLED		NO. OF CCUS SPECIFIED IN PROGRAMMING					
(shaded cells not available with this CPC)	CPC-96:	1	2	3	4	5	6
	CPC-288:	1	2	3	4	5	6
	CPC-576:	1	2	3	4	5	6
Ext. Hunt Group range:		12	24	36	48	60	72

FF5 Groups

Notes:

If this address is reset to "0=No hunting," the pilot number and members in the next addresses will be automatically cleared.

Pilot Terminal hunting. Calls are directed to the pilot number. Member #1 is tried first. Hunting proceeds forward through the sequential members to the end of the hunt group. If Member #20 (last member) doesn't answer, the call returns to Member #1 again, and the hunt cycle repeats until a member answers the call, or the Queuing Timer expires (whichever occurs first).

Pilot Distributed hunting. Calls are directed to the pilot number. Hunting begins at the next sequential member after the member that received the last call. Hunting then proceeds forward from that member, to the end of the hunt group. If Member #20 (last member) doesn't answer, the call goes to Member #1, and hunting proceeds forward through the entire hunt group. The latter hunt cycle (Member #1 thru Member #20) repeats until a member answers the call, or the Queuing Timer expires (whichever occurs first).

Switchback hunting. The hunting cycle always starts at (and returns to) the member that first received the call. Hunting proceeds forward through the Hunt Group members to the end of the Hunt Group, then returns to the member extension and hunts backward until Member #1 is reached. The call returns again

to the original member, and hunts forward, then returns again/hunts backward. This cycle is repeated until a member answers the call, or the Queuing Timer expires (whichever occurs first).

Circular hunting. Hunting begins at the member extension receiving the call, and proceeds forward to end of the Hunt Group. If Member #20 (last member) doesn't answer, Member #1 (first member) is tried next. Hunting proceeds forward to the end of the Hunt Group again. The latter hunt cycle (Member #1 thru Member #20) repeats until a member answers the call, or the Queuing Timer expires (whichever occurs first).

Related Programming:

Extension HG: Pilot Number

01-02 : HG Pilot #

(all CPCs) - Version 2.0 or higher

Enter the pilot number of the Extension Hunt Group. Applies only if the hunt group is assigned Pilot Terminal or Pilot Distributed hunting (see previous address).

FF5 1 (01-72) 02 Hold (0-9999) Hold

Extension Hunt Group No.

Pilot No. 0-9999
(digit length: 1-4 digits - must match Extenson No. configuration)

default: [no assignment]

FF5 Groups

NOTE: Available range of Extension Hunt Groups is determined by the CPC installed, and the number of CCUs specified in programming (see **0: System Configuration**).

CPC INSTALLED		NO. OF CCUS SPECIFIED IN PROGRAMMING					
(shaded cells not available with this CPC)	CPC-96:	1	2	3	4	5	6
	CPC-288:	1	2	3	4	5	6
	CPC-576:	1	2	3	4	5	6
Ext. Hunt Group range:		12	24	36	48	60	72

Notes:

A pilot number is a "phantom" extension number not assigned to a physical port. In pilot hunting, calls are directed to the pilot number and sent to hunt group members from there.

The pilot number cannot match an existing Extension No. or a Flexible Feature Code.

Related Programming:

Extension HG: Hunt Mode (pg. 5-13) FF5 1 (01-72) 01 Hold (0-4) Hold

Extension HG: Members

01-03 : HG Member

(all CPCs) - Version 2.0 or higher

Assign extensions as members of an Extension Hunt Group.

(to clear current assignment)

FF5 1 (01-72) (03-22) Hold FL/R (0-9999) Hold

Extension Hunt Group No.

Member Position:
03=Member #1
04=Member #2
05=Member #3
...
22=Member #20

Extension No. 0-9999

default: [no assignment]

NOTE: Available range of Extension Hunt Groups is determined by the CPC installed, and the number of CCUs specified in programming (see **0: System Configuration**).

CPC INSTALLED		NO. OF CCUS SPECIFIED IN PROGRAMMING					
(shaded cells not available with this CPC)	CPC-96:	1	2	3	4	5	6
	CPC-288:	1	2	3	4	5	6
	CPC-576:	1	2	3	4	5	6
Ext. Hunt Group range:		12	24	36	48	60	72

Notes:

An **Extension Hunt Group Member** cannot also be an **Attendant Hunt Group Member.**

Each extension can belong to only one **Extension Hunt Group.** (The most recent assignment is the priority.)

To change an **Extension Hunt Group Member,** clear the current member by pressing FL/R first, then entering the new extension member. Otherwise, the new extension will have the member position, and the current assignment will move backward one member position. (You cannot override an extension number, unless you press FL/R to clear it first.)

Related Programming:

Extension HG: Delayed (No Answer) Hunt Timer

01-23 :16
Delayed Hunt TM

(all CPCs) - Version 2.0 or higher

Set the amount of time before an unanswered call ringing an idle member in the Extension Hunt Group, is forwarded to the next member in the group.

FF5 1 (01-72) 23 Hold (0-255) Hold

Extension Hunt Group No.

Delayed (No Answer) Hunt Timer:
0=stay at idle extension
1-255=no. of seconds

default: 16 seconds

NOTE: Available range of Extension Hunt Groups is determined by the CPC installed, and the number of CCUs specified in programming (see **0: System Configuration**).

CPC INSTALLED		NO. OF CCUS SPECIFIED IN PROGRAMMING					
(shaded cells not available with this CPC)	CPC-96:	1	2	3	4	5	6
	CPC-288:	1	2	3	4	5	6
	CPC-576:	1	2	3	4	5	6
Ext. Hunt Group range:		12	24	36	48	60	72

FF5 Groups

Notes:

Related Programming:

Extension HG: Queuing Timer

01-24 :0
Queuing Timer

(all CPCs) - Version 2.0 or higher

Set the amount of time an incoming call is queued in the Extension Hunt Group (waiting for a member to become available) before being forwarded to the next hunt group or extension.

FF5 1 (01-72) 24 Hold (0-255) Hold

Extension Hunt Group No.

Queuing Timer:
0=stay in the same Hunt Group (default)
1-255=no. of seconds

NOTE: Available range of Extension Hunt Groups is determined by the CPC installed, and the number of CCUs specified in programming (see **0: System Configuration**).

CPC INSTALLED		NO. OF CCUS SPECIFIED IN PROGRAMMING					
(shaded cells not available with this CPC)	CPC-96:	1	2	3	4	5	6
	CPC-288:	1	2	3	4	5	6
	CPC-576:	1	2	3	4	5	6
Ext. Hunt Group range:		12	24	36	48	60	72

Notes:

A call is queued in a hunt group after the idle members are tried (once each) and the remaining members are busy.

If there is no assigned **Next Extension/Hunt Group** (see next address), intercom and network calls will be dropped after the Queuing Timer expires. Public-Exchange line calls will return to "Multiple Incoming" status.

Related Programming:

Extension HG: Next Extension/Hunt Group FF5 1 (01-72) 25 Hold (0-9999) Hold

Extension HG: Next Extension/Hunt Group

01-25 : Next Hunting

(all CPCs) - Version 2.0 or higher

Enter the Hunt Group pilot number or Extension number that will receive the Extension Hunt Group's unanswered calls.

FF5 1 (01-72) 25 Hold (0-9999) Hold

Extension Hunt Group No.

Next Extension/Hunt Group
(enter Hunt Group Pilot No. or Extension No.)

default: [no assignment]

NOTE: Available range of Extension Hunt Groups is determined by the CPC installed, and the number of CCUs specified in programming (see **0: System Configuration**).

CPC INSTALLED		NO. OF CCUS SPECIFIED IN PROGRAMMING					
(shaded cells not available with this CPC)	CPC-96:	1	2	3	4	5	6
	CPC-288:	1	2	3	4	5	6
	CPC-576:	1	2	3	4	5	6
Ext. Hunt Group range:		12	24	36	48	60	72

Notes:

The "Hunt Group Pilot No." can be an Extension Hunt Group or Attendant Hunt Group.

The "Extension No." can be a Virtual Extension or an actual extension number.

FF5 Groups

Related Programming:

Attendant HG: Pilot Number FF5 0 01 Hold (0-9999) Hold
Extension HG: Pilot Number FF5 1 (01-72) 02 Hold (0-9999) Hold
Extension Number Assignment FF3 2 (001-576) 00 Hold (0-9999) Hold
Extension Number Assignment FF3 0 BSSC 02 Hold (0-9999) Hold

FF5 2: MCO Outbound Exchange-Line Groups

MCO Outbound Search Mode

01-001 :0
TG-Out Search

(all CPCs) - Version 2.0 or higher

Set the hunting method for each MCO Outbound Exchange-Line Group.

FF5 2 (01-99) 001 Hold (0 or 1) Hold

MCO Outbound Exchange-Line Group No. (maximum 99 Groups)

0=Hunt for exchange lines in reverse order by Member No. (default)

1=Hunt for exchange lines in distributed order.

Notes:

Related Programming:

FF5 Groups

MCO Outbound Exchange-Line Group Members

01-002 : TG-Out Member

(all CPCs) - Version 2.0 or higher

Assign exchange lines as members of each MCO Outbound Exchange-Line Group.

FF5 2 (01-99) (002-577) Hold (1-576) Hold

MCO Outbound Exchange-Line Group No.	Member Position: 002=Member #1 003=Member #2 004=Member #3 .... 575=Member #576	Exchange Line No. 1-576 **default: (none)**

NOTE: Available range of Group Members is determined by the CPC installed, and the number of CCUs specified in programming (see **0: System Configuration**).

CPC INSTALLED		NO. OF CCUS SPECIFIED IN PROGRAMMING					
(shaded cells not available with this CPC)	CPC-96:	1	2	3	4	5	6
	CPC-288:	1	2	3	4	5	6
	CPC-576:	1	2	3	4	5	6
Max. no. of Members in each MCO Outbound Exch.Line Group:		96	192	288	384	480	576

FF5 Groups

Notes:

As each exchange line is added as a member, the system re-sorts the members from the highest-numbered exchange line as Member #1, to the lowest-numbered exchange line as the last assigned Member Position. This means that you can enter exchange lines in no particular order.

An exchange line cannot belong to more than one Exchange-Line Group (the most recent assignment is the priority).

MCO Outbound Exchange-Line Groups can be assigned to MCO Access codes (e.g., MCO-1 is “9” dialing by default; assign the Exchange-Line Group to be accessed when the user dials “9” or selects MCO-1).

MCO Outbound Exchange-Line Groups are also used in Toll Restriction (TRS) and Automatic Route Selection (ARS).

Related Programming:

Tenant Group MCO Access: Outbound Exchange-Line Groups (pg. 1-177) FF1 3 01 (0001-0360) Hold (0-99 or 0-72) Hold

FF5 3: MCO Inbound Exchange-Line Groups

NOTE: *There is no search method for MCO Inbound Exchange-Line Groups.*

MCO Inbound Exchange-Line Group Members

01-001 : TG-In Member

(all CPCs) - Version 2.0 or higher

Assign exchange lines as members of the MCO Inbound Exchange-Line Group.

FF5 3 (01-99) (001-576) Hold (1-576) Hold

MCO Inbound Exchange-Line Group No.

Member Position:
002=Member #1
003=Member #2
004=Member #3
....
575=Member #576

Exchange Line No. 1-576

default: (none)

NOTE: Available range of Group Members is determined by the CPC installed, and the number of CCUs specified in programming (see **0: System Configuration**).

CPC INSTALLED		NO. OF CCUS SPECIFIED IN PROGRAMMING					
(shaded cells not available with this CPC)	CPC-96:	1	2	3	4	5	6
	CPC-288:	1	2	3	4	5	6
	CPC-576:	1	2	3	4	5	6
Max. no. of Members in each MCO Inbound Exch.Line Group:		96	192	288	384	480	576

FF5 Groups

Notes:

As each exchange line is added as a member, the system re-sorts the members from the highest-numbered exchange line as Member #1, to the lowest-numbered exchange line as the last assigned Member Position. This means that you can enter exchange lines in no particular order.

A exchange line cannot belong to more than one Exchange-Line Group (the most recent assignment is the priority).

MCO Inbound Exchange-Line Groups are used in the Exchange-Line Group Pickup feature. See *Section 700-Feature Operation* for more information.

Related Programming:

Tenant Groups: Inbound Exchange-Line Groups (pg. 1-181) FF1 3 03 (0001-0072) Hold (1-99) Hold

FF5 4: Paging Groups

External Page Port

(all CPCs) - Version 2.0 or higher

01-01 :*
External Port

Set the position on the card (e.g., Exchange-Line Card) where the Paging Adapter for external paging is installed for each Paging Group.

FF5 4 (01-10) 01 Hold (BSSC) Hold

Paging Group:
01=Paging Group 1
02=Paging Group 2
...
10=Paging Group 0

External Paging Adapter Port Position --
B=CCU 1-6
SS=Slot 01-12
C=Circuit 1-8

default: * (use paging port on SCC board)

Notes:

If the above address is left at the default "*", voice will be sent through the paging port on the SCC board. To disable external page output, press FL/R after **01 Hold** in the above address to clear the "*" setting.

FF5
Groups

Related Programming:

Paging Group Members

(all CPCs) - Version 2.0 or higher

01-02 : Page Member

Assign extensions as members of the Paging Group (up to 72 extensions per group).

FF5 4 (01-10) (02-73) Hold (0-9999) Hold

Paging Group:
01=Paging Group 1
02=Paging Group 2
...
10=Paging Group 0

Paging Group Member position:
02=Member #1
03=Member #2
04=Member #3
...
73=Member #72

Extension No.
(digit length: 1-4 digits)

default: [no assignment]

Notes:

(all CPCs - Version 2.5 or higher) Phones set to DND will ***not*** receive pages. However, phones set to Call Forward/All ***will*** receive pages.

Related Programming:

Extension COS: Paging (pg. 1-51) FF1 0 03 (00-15) 15 Hold (0 or 1) Hold

FF5 5: Hot Line Group

Hot Line Extension

01-01 :
Hot-L ORG EXT #

(all CPCs) - Version 2.0 or higher

Assign up to 20 “Hot Line” extensions.

FF5 5 (01-20) 01 Hold (0-9999) Hold

Hot Line Member No.:
01=Hot Line #1
02=Hot Line #2
...
20=Hot Line #20

Extension No. 0-9999
(digit length: 1-4 digits)

default: [no assignment]

Notes:

Hot Line Extension: Go off-hook. Phone automatically dials another extension or SSD code.

Related Programming:

FF5
Groups

Hot Line Mode

01-02 :0
Hot-L DEST Type

(all CPCs) - Version 2.0 or higher

Set whether the Hot Line destination is another extension or a System Speed Dial (SSD) code.

FF5 5 (01-20) 02 Hold (0 or 1) Hold

Hot Line Member No.:
01=Hot Line #1
02=Hot Line #2
...
20=Hot Line #20

0=Extension (default)
1=SSD Code

Notes:

Related Programming:

Hot Line Extension (pg. 5-24) FF5 5 (01-20) 01 Hold (0-9999) Hold
SSD Numbers (pg. 8-46) FF8 1 02 Hold 1 Hold Hold (00/0-79/9) Hold FL/R (up to 16 char.) Hold

Hot Line Destination

01-03 :
Hot-L DEST INFO

(all CPCs) - Version 2.0 or higher

Assign an extension number or System Speed Dial (SSD) code as the Hot Line destination.

FF5 5 (01-20) 03 Hold (1-9999 or 000-799) Hold

Hot Line Member No.:
01=Hot Line #1
02=Hot Line #2
...
20=Hot Line #20

Extension No. (1-9999) or SSD Code (000-799)

default: [no assignment]

Notes:

Related Programming:

Hot Line Extension (pg. 5-24) FF5 5 (01-20) 01 Hold (0-9999) Hold
SSD Numbers (pg. 8-46) FF8 1 02 Hold 1 Hold Hold (00/0-79/9) Hold FL/R (up to 16 char.) Hold

FF5 6: Call Pickup Groups

Call Pickup Group Members

01-01 : Pick-Up Member

(all CPCs) - Version 2.0 or higher

Assign extensions as members of a Call Pickup Group.

FF5 6 (01-72) (01-20) Hold (1-9999) Hold

Call Pickup Group No.

Member Position:
01=Member #1
02=Member #2
...
20=Member #20

Extension No. 1-9999
(digit length: 1-4 digits)

default: (none)

NOTE: Available range of Call Pickup Groups is determined by the CPC installed, and the number of CCUs specified in programming (see **0: System Configuration**).

CPC INSTALLED		NO. OF CCUS SPECIFIED IN PROGRAMMING					
(shaded cells not available with this CPC)	CPC-96:	1	2	3	4	5	6
	CPC-288:	1	2	3	4	5	6
	CPC-576:	1	2	3	4	5	6
Max. no. of Call Pickup Groups:		12	24	36	48	60	72

FF5 Groups

Notes:

Group Call Pickup can be performed for both single-ringing calls (ringing only one extension) or multiple-ringing calls (ringing on multiple extensions).

The following types of single-ringing calls can be retrieved via Group Call Pickup:

- ❒ DL (Direct Line)
- ❒ DDI (Direct Dialling Inward)
- ❒ DISA (Direct Inward System Access)
- ❒ Caller ID
- ❒ Network
- ❒ Intercom (tone and voice)
- ❒ Virtual Port

The following types of multiple-ringing calls can be retrieved via Group Call Pickup:

- ❒ Multiple Incoming exchange lines
- ❒ BLF (Busy Lamp Field)

Related Programming:

6. TRS(Call Barring)/ARS (FF6)

Use the FF6 addresses in this chapter to set Toll Restriction Service (TRS or Call Barring) and Automatic Route Selection (ARS) parameters in the ICX.

FF6 0: TRS/ARS Common
FF6 1: TRS Class Definitions
FF6 2: ARS Settings

This chapter covers the following FF6 addresses:

FF6 2: ARS Settings			6-27
FF6 2 00 thru 02: Time List Tables			**6-27**
FF6 2 00 (0001-0007) Hold (1-4) Hold	Day of the Week for Time List Table	1	6-27
FF6 2 01 (0001-0040) Hold (MMDD or 1-4) Hold	Day of the Year for Time List Table	0000 and 1	6-28
FF6 2 02 (0-3) (01-50) (0001-0010) Hold (0000-2359 or 0-100) Hold	Time List Tables	0000 and 0	6-29
FF6 2 03: Route List Table			**6-30**
FF6 2 03 (001-100) 0001 Hold (0-200) Hold	Route List Table: 1st Priority Route No.	0 (none)	6-30
FF6 2 03 (001-100) 0002 Hold (0-9) Hold	Route List Table: 1st Priority ARS Level	0	6-31
FF6 2 03 (001-100) 0003 Hold (0-200) Hold	Route List Table: 2nd Priority Route No.	0 (none)	6-31
FF6 2 03 (001-100) 0004 Hold (0-9) Hold	Route List Table: 2nd Priority ARS Level	0	6-32
FF6 2 03 (001-100) 0005 Hold (0 or 1) Hold	Route List Table: 2nd Priority ARS Alarm	0 (Alarm off)	6-32
FF6 2 03 (001-100) 0006 Hold (0-200) Hold	Route List Table: 3rd Priority Route No.	0 (none)	6-33
FF6 2 03 (001-100) 0007 Hold (0-9) Hold	Route List Table: 3rd Priority ARS Level	0	6-33
FF6 2 03 (001-100) 0008 Hold (0 or 1) Hold	Route List Table: 3rd Priority ARS Alarm	0 (Alarm off)	6-34
FF6 2 03 (001-100) 0009 Hold (0-200) Hold	Route List Table: 4th Priority Route No.	0 (none)	6-34
FF6 2 03 (001-100) 0010 Hold (0-9) Hold	Route List Table: 4th Priority ARS Level	0	6-35
FF6 2 03 (001-100) 0011 Hold (0 or 1) Hold	Route List Table: 4th Priority ARS Alarm	0 (Alarm off)	6-35
FF6 2 03 (001-100) 0012 Hold (0-200) Hold	Route List Table: 5th Priority Route No.	0 (none)	6-36
FF6 2 03 (001-100) 0013 Hold (0-9) Hold	Route List Table: 5th Priority ARS Level	0	6-36
FF6 2 03 (001-100) 0014 Hold (0 or 1) Hold	Route List Table: 5th Priority ARS Alarm	0 (Alarm off)	6-37
FF6 2 04: Route Table			**6-38**
FF6 2 04 (001-200) 0001 Hold (0-99) Hold	Route Table: Exchange-Line Group Assignment	0 (none)	6-38
FF6 2 04 (001-200) 0002 Hold (0-50) Hold	Route Table: Digit Modify Pattern No.	0 (none)	6-39
FF6 2 05: Digit Modify Table			**6-40**
FF6 2 05 (01-50) 0001 Hold (0-24) Hold	Digit Modify Table: Delete Beginning Digits	0	6-40
FF6 2 05 (01-50) 0002 Hold (up to 10 char.) Hold	Digit Modify Table: Add Beginning Digits	-- (none)	6-41
FF6 2 05 (01-50) 0003 Hold (up to 10 char.) Hold	Digit Modify Table: Add Ending Digits	-- (none)	6-42
FF6 2 06: Authorisation Codes			**6-43**
FF6 2 06 (0001-0008) Hold (up to 10 digits) Hold	Authorisation Code	-- (none)	6-43
FF6 2 07: Closed Number Table			**6-44**
FF6 2 07 (001-150) 0001 Hold (1-4 digits) Hold	Closed Number Table: Digit String	-- (none)	6-44
FF6 2 07 (001-150) 0002 Hold (0-16) Hold	Closed Number Table: Follow Digit Maximum	0 (no limit)	6-45
FF6 2 07 (001-150) 0003 Hold (0-8) Hold	Closed Number Table: TRS Level	0 (Restrict all outbound)	6-45
FF6 2 07 (001-150) 0004 Hold (0 or 1) Hold	Closed Number Table: Route Type	0 (use Route)	6-46
FF6 2 07 (001-150) 0005 Hold (1-200/100) Hold	Closed Number Table: Route Number	0 (none)	6-46
FF6 2 08: Tandem Exchange Table			**6-47**
FF6 2 08 (01-50) 0001 Hold (1-4 digits) Hold	Tandem Exchange Table: Digit String	-- (none)	6-47
FF6 2 08 (01-50) 0002 Hold (0-16) Hold	Tandem Exchange Table: Follow Digit Maximum	0 (no limit)	6-48
FF6 2 08 (01-50) 0003 Hold (0-2) Hold	Tandem Exchange Table: Route Type	0 (use Route)	6-48
FF6 2 08 (01-50) 0004 Hold (1-200/100) Hold	Tandem Exchange Table: Route Number	0 (none)	6-49

General TRS/ARS Concepts in the ICX

TRS: **Toll Restriction Service, or Call Barring.**
Outgoing calls are allowed or blocked, based on the ***path*** (originating extension or DISA exchange line, seizing an outgoing exchange line) and the ***dialled digits.***

ARS: **Automatic Route Selection.**
(also called *Least Cost Routing*) Calls are automatically routed to the least expensive exchange line when the user dials MCO-1 ("9" by default) to make an outgoing call. The routing is based on the ***originating extension or DISA exchange line,*** the ***dialled phone number,*** and ***when the call is placed*** (Time of Day, Day of Week, or Special Day such as a holiday).

Implementing TRS/ARS: There are two ways you can use TRS/ARS in the ICX:

- **TRS by itself.**
- **TRS and ARS together.**
  (You cannot use ARS alone; it must go through TRS restrictions also.)

  If TRS is used by itself, the exchange line is selected *before* the system analyses the ***path*** and the ***dialled phone number*** to determine whether to allow/restrict the call.

  If TRS is used with ARS, however, *the system will not select an exchange line until the user has dialled enough digits* to match an entry in the Leading Digits Table. (Remember, ARS works when the user dials the MCO-1 access code to get an outside line.) TRS will allow or block the call by comparing the TRS Levels assigned to the ***originator*** and the ***dialled phone number.*** If the call passes TRS, ***an exchange-line group*** is then selected for the call based on ARS settings.

  For a detailled description of TRS/ARS operation, see *Section 700-Feature Operation: Appendix A.*

FF6 TRS/ARS

Important Program Settings

- TRS is always on. All calls are allowed by default (via the TRS Class assignments to extensions and exchange lines). To activate ARS also, enable the following address:

  ARS/LCR Setting (pg. 1-27)
  FF1 0 02 0010 Hold (0 or 1) Hold (default: 0=disabled. Set it to 1=enabled.)

- Before programming TRS/ARS in FF6, it is important to group extensions and DISA exchange lines (as originators of outbound calls) into TRS Classes:

  defaults for all: TRS Class 1 during Day Mode *and* Night Mode

  for Digital Keyphones and SLTs:

  TRS Class Assignment (Day) (pg. 3-25) FF3 0 BSSC 06 0 Hold (1-50) Hold
  TRS Class Assignment (Night) (pg. 3-25) FF3 0 BSSC 06 1 Hold (1-50) Hold

for S-Point ISDN Extensions:

TRS Class Assignment (Day) (pg. 3-37) FF3 1 BSSC 05 0 Hold (1-50) Hold
TRS Class Assignment (Night) (pg. 3-37) FF3 1 BSSC 05 1 Hold (1-50) Hold

for analog public-exchange lines:

TRS Class Assignment (Day) (pg. 2-35) FF2 0 BSSC 06 0 Hold (1-50) Hold
TRS Class Assignment (Night) (pg. 2-36) FF2 0 BSSC 06 1 Hold (1-50) Hold

for analog AC-15 private lines:

TRS Class Assignment (Day) (pg. 2-58) FF2 0 BSSC 06 0 Hold (1-50) Hold
TRS Class Assignment (Night) (pg. 2-58) FF2 0 BSSC 06 1 Hold (1-50) Hold

for ISDN exchange lines:

TRS Class Assignment (Day) (pg. 2-82) FF2 1 BSSC 07 0 Hold (1-50) Hold
TRS Class Assignment (Night) (pg. 2-82) FF2 1 BSSC 07 1 Hold (1-50) Hold

for T1-CO lines: (USA only)

TRS Class Assignment (Day) (pg. 2-112) FF2 2 BSSCC 07 0 Hold (1-50) Hold
TRS Class Assignment (Night) (pg. 2-113) FF2 2 BSSCC 07 1 Hold (1-50) Hold

for T1 E&M tie lines: (USA only)

TRS Class Assignment (Day) (pg. 2-135) FF2 2 BSSCC 07 0 Hold (1-50) Hold
TRS Class Assignment (Night) (pg. 2-135) FF2 2 BSSCC 07 1 Hold (1-50) Hold

- Before programming TRS/ARS in FF6, it is important to set up exchange-line groups, assign them to the MCO-1 access code in each Tenant Group, and assign extensions to the Tenant Groups:

MCO Outbound Exchange-Line Group Members (pg. 5-20)
FF5 2 (01-99) (002-577) Hold (1-576) Hold (default: no assignment)

Tenant Group MCO Access: Outbound Exchange-Line Groups (pg. 1-177)
FF1 3 01 (0001-0360) Hold (0-99 or 0-72) Hold
defaults: Tenant Group #1/MCO-1=Exch.Line Group #1
Tenant Group #2/MCO-1=Exch.Line Group #2
Tenant Group #3/MCO-1=Exch.Line Group #3
...
Tenant Group #72/MCO-1=Exch.Line Group #72

Advanced Routing: Outbound Exchange-Line Group Chains (pg. 1-179)
FF1 3 02 (0001-0360) Hold (0-99) Hold (default: 0=no assignment)

for Digital Keyphones and SLTs:

Tenant Group Assignment (pg. 3-24)
FF3 0 BSSC 05 Hold (1-72) Hold (default: Tenant Group #1)

for S-Point ISDN Extensions:

Tenant Group Assignment (pg. 3-36)
FF3 1 BSSC 04 Hold (1-72) Hold (default: Tenant Group #1)

for Virtual Ports:

Tenant Group Assignment (pg. 3-43)
FF3 2 (001-576) 02 Hold (1-72) Hold (default: Tenant Group #1)

- Groups of extensions can be limited to MCO-1 access only, to get an outside line:

Extension COS: Forced ARS (pg. 1-78)
FF1 0 03 (00-15) 42 Hold (0 or 1) Hold (default: 0=Not Forced. Set it to 1=Forced)

Extension COS Assignment (pg. 3-26)
FF3 0 BSSC 07 Hold (1-16) Hold (default: Extension COS #1)

FF6
TRS/ARS

FF6 0: TRS/ARS Common

*NOTE: These FF6 0 addresses contain the **Leading Digits Table** and the **Analyse Digits Table.** These tables store the dialled-digit string definitions, along with their assigned TRS Level and ARS route. These tables are used with TRS/ARS and TRS alone.*

***IMPORTANT: In these tables, all dial string possibilities should be entered.** If there is no match, there is no restriction. As a catch-all, use ∗ as a wild-card (for example, enter **900976**∗ to cover all 1-900-976 phone calls). If there is more than one match, the system will pick the most exact match and follow its settings (in the same example, the system would follow the **900976**∗ entry instead of a 900∗ entry).*

FF6 0 00: Leading Digits Table

Table 6-1. Leading Digits Table: FF6 0 00 (001-100) (0001 thru 0006) Hold

Leading Digits Table: FF6 0 00						
(001-100)	**0001**	**0002**	**0003**	**0004**	**0005**	**0006**
Bin No.	**Prefix String**	**Prefix ID**	**Follow Digit Maximum**	**TRS Level**	**Route Type**	**Route No.**
001	0-9, ∗ (up to 10 dig.)	0-99	(up to 16 dig. after Prefix string)	0-8	0=Route 1=Route List 2=Time List	0-200 0-100 0-50
002	0-9, ∗ (up to 10 dig.)	0-99	(up to 16 dig. after Prefix string)	0-8	0=Route 1=Route List 2=Time List	0-200 0-100 0-50
...	0-9, ∗ (up to 10 dig.)	0-99	(up to 16 dig. after Prefix string)	0-8	0=Route 1=Route List 2=Time List	0-200 0-100 0-50
100	0-9, ∗ (up to 10 dig.)	0-99	(up to 16 dig. after Prefix string)	0-8	0=Route 1=Route List 2=Time List	0-200 0-100 0-50

NOTE: The system will automatically re-sort this table after you exit Programming Mode. The purpose of the re-sort is to place exact phone-number matches first, and the most ⋆'s last. (The system will start at the beginning of the Table when it searches for a match with an actual dialled number; it will select the first match it comes to.) You can view the re-sort by re-entering Programming Mode.

Leading Digits Table: Prefix String

0001 :
LD001 Number

(all CPCs) - Version 2.0 or higher

Assign up to 100 dial strings, which will be matched with the first dialled digits of outbound calls.

FF6 0 00 (001-100) 0001 Hold (up to 10 digits) Hold

Leading Digits Entry (Bin) No. 001-100

Leading Digits Prefix String (up to 10 digits)

valid entries: digits 0-9, and ✻ (for wild-card)

default: [no assignment]

DEFAULT EXCEPTIONS:

FF6 0 00 (001-100)...

0001 Hold... Default Prefix String	0004 Hold... Default TRS Level	Applies to these countries
00	**8**	all countries; applies when **Auto-Configuration (for single-CCU systems only) (pg. 0-6)** is performed.
0	**6**	
1-9	**3**	
✻ (wild-card for all other prefix strings)	**8**	

Notes:

These prefix dial strings will be searched by the system to check for TRS restrictions and ARS call routing when the digits are dialled by the user.

This address includes all leading digits dialled ***except for the ARS Access Code,*** which is equal to the MCO-1 Access Code (“9” by default).

FF6
TRS/ARS

Related Programming:

Leading Digits Table: Prefix ID

0002 :0
LD001 ID Code

(all CPCs) - Version 2.0 or higher

Assign a prefix ID to each Leading Digits entry, if you intend to use **FF6 0 01: Analyse Digits Table (pg. 6-11)** to further analyse this Leading Digits dial string.

FF6 0 00 (001-100) 0002 Hold (0-99) Hold

Leading Digits Entry (Bin) No. 001-100

Prefix ID No. 1-99

default: 0=not linked to Analyse Digits Table

Notes:

Prefix IDs serve as "pointers" to the Analyse Digits Table, for the purpose of determining TRS and ARS for the dial string. The same Leading Digits can have several different routing possibilities depending on what is dialled after the Leading Digits. The Analyse Digits Table can handle these possibilities.

If you assign a prefix ID 1-99 here, the system will not check the remaining **FF6 0 00** addresses. Instead, it will go straight to the Analyse Digits Table and look for the closest match to the entire dialled number (not just the Leading Digits).

Related Programming:

FF6 0 01: Analyse Digits Table (pg. 6-11)

Leading Digits Table: Follow Digit Maximum

0003 :0
LD001 Follow DGT

(all CPCs) - Version 2.0 or higher

(for TRS/ARS only) For each Leading Digits entry, enter the maximum number of digits a phone user can dial after the digits defined in **Leading Digits Table: Prefix String (pg. 6-6)**.

FF6 0 00 (001-100) 0003 Hold (0-16) Hold

Leading Digits Entry (Bin) No. 001-100

Maximum No. of Dialled Digits Allowed after Prefix String (0-16)

default: 0=no maximum limitation

Notes:

This address applies only to TRS/ARS routing. It does not apply when TRS alone is used.

The system will start analysing the call immediately after the end-user has dialled the maximum number of digits set in this address (1-16). However, if this address is set to **0=no maximum (default)**, the

FF6 TRS/ARS

system doesn't know how many digits will be dialled. Therefore, the system will wait until the appropriate **Interdigit Timer** expires before processing the call.

Related Programming:

Leading Digits Table: Prefix String (pg. 6-6) FF6 0 00 (001-100) 0001 Hold (up to 10 digits) Hold
Interdigit Timer (ARS and ISDN Exchange Line) (pg. 1-133) FF1 1 01 0010 Hold (1-255) Hold
Interdigit Timer (DP SLTs) (pg. 1-154) FF1 1 03 0006 Hold (0-255) Hold
Interdigit Timer (DTMF SLTs) (pg. 1-155) FF1 1 03 0007 Hold (0-255) Hold
Interdigit Timer (Digital Keyphones) (pg. 1-155) FF1 1 03 0008 Hold (0-255) Hold

Leading Digits Table: TRS Level

0004 :0
LD001 TRS Level

(all CPCs) - Version 2.0 or higher

Assign a TRS Level to each Leading Digits entry. This TRS Level must be lower than the path's or originator's TRS Level for the call to be allowed.

FF6 0 00 (001-100) 0004 Hold (0-8) Hold

Leading Digits Entry (Bin) No. 001-100

TRS Level 0-8
default: 0

DEFAULT EXCEPTIONS:

FF6 0 00 (001-100)...

0001 Hold... Default Prefix String	0004 Hold... Default TRS Level	Applies to these countries
00	**8**	all countries; applies when **Auto-Configuration (for single-CCU systems only) (pg. 0-6)** is performed.
0	**6**	
1-9	**3**	
✻ (wild-card for all other prefix strings)	**8**	

FF6
TRS/ARS

Notes:

The TRS Level you assign to this dial string (above address) will be compared to the TRS Level assigned (in FF6 1) to the path or originator of the call attempt. The call will be ***allowed*** only if the ***dial string's*** TRS Level is ***lower than*** the path/originator's TRS Level.

- ❒ The "path" is the extension or DISA exchange line seizing an outbound exchange line. Applies when TRS alone is used (without ARS).
- ❒ The "originator" is the extension or DISA exchange line attempting an outgoing call (before the system selects an exchange line). Applies when TRS/ARS is used.

TRS Level 0 (when assigned to the path/originator) blocks all calls. TRS Level 9 (when assigned to the path/originator) allows all calls. TRS Level 9 can be assigned to the path or originator, but not to the dial string (0-8 only).

Related Programming:

for analog exchange lines:

TRS Class Assignment (Day) (pg. 2-35) FF2 0 BSSC 06 0 Hold (1-50) Hold
TRS Class Assignment (Night) (pg. 2-36) FF2 0 BSSC 06 1 Hold (1-50) Hold

for AC-15 private lines:

TRS Class Assignment (Day) (pg. 2-58) FF2 0 BSSC 06 0 Hold (1-50) Hold
TRS Class Assignment (Night) (pg. 2-58) FF2 0 BSSC 06 1 Hold (1-50) Hold

for ISDN exchange lines:

TRS Class Assignment (Day) (pg. 2-82) FF2 1 BSSC 07 0 Hold (1-50) Hold
TRS Class Assignment (Night) (pg. 2-82) FF2 1 BSSC 07 1 Hold (1-50) Hold

for T1-CO lines: (USA only)

TRS Class Assignment (Day) (pg. 2-112) FF2 2 BSSCC 07 0 Hold (1-50) Hold
TRS Class Assignment (Night) (pg. 2-113) FF2 2 BSSCC 07 1 Hold (1-50) Hold

for T1-E&M tie lines: (USA only)

TRS Class Assignment (Day) (pg. 2-135) FF2 2 BSSCC 07 0 Hold (1-50) Hold
TRS Class Assignment (Night) (pg. 2-135) FF2 2 BSSCC 07 1 Hold (1-50) Hold

for digital keyphones and SLTs:

TRS Class Assignment (Day) (pg. 3-25) FF3 0 BSSC 06 0 Hold (1-50) Hold
TRS Class Assignment (Night) (pg. 3-25) FF3 0 BSSC 06 1 Hold (1-50) Hold

for S-Point ISDN extensions:

TRS Class Assignment (Day) (pg. 3-37) FF3 1 BSSC 05 0 Hold (1-50) Hold
TRS Class Assignment (Night) (pg. 3-37) FF3 1 BSSC 05 1 Hold (1-50) Hold

TRS Level for Path (non-ARS) (pg. 6-17) FF6 1 00 (01-50) Hold (0001-0099) Hold (0-9) Hold
TRS Level for Originator (TRS/ARS) (pg. 6-19) FF6 1 01 (01-50) 0001 Hold (0-9) Hold

Leading Digits Table: Route Type

0005 :0
LD001 Route Type

(all CPCs) - Version 2.0 or higher

(for TRS/ARS only) Assign the route type for each Leading Digits entry.

FF6 0 00 (001-100) 0005 Hold (0-2) Hold

Leading Digits Entry (Bin) No. 001-100

0=Follow the assigned Route. (default)
1=Follow the assigned Route List.
2=Follow the assigned Time List.

FF6 TRS/ARS

Notes:

Assign the Route, Route List, or Time List number in the next address.

This address applies only to TRS/ARS routing. It does not apply when TRS alone is used.

Related Programming:

Leading Digits Table: Route Number (pg. 6-10) FF6 0 00 (001-100) 0006 Hold (1-200/100/50) Hold

Leading Digits Table: Route Number

0006 :0
LD001 Route #

(all CPCs) - Version 2.0 or higher

(for TRS/ARS only) Assign a route number for each Leading Digits entry, depending on the **Route Type** set in the previous address.

FF6 0 00 (001-100) 0006 Hold (1-200/100/50) Hold

Leading Digits Entry
(Bin) No. 001-100

Route 1-200
Route List 1-100
Time List 1-50

default: 0 (no routing)

Notes:

This address applies only to TRS/ARS routing. It does not apply when TRS alone is used.

Related Programming:

Leading Digits Table: Route Type (pg. 6-9) **FF6 0 00 (001-100) 0005 Hold (0-2) Hold**
FF6 2 02: Time List Tables (pg. 6-29)
FF6 2 03: Route List Table (pg. 6-30)
FF6 2 04: Route Table (pg. 6-38)

FF6
TRS/ARS

FF6 0 01: Analyse Digits Table

Table 6-2. Analyse Digits Table: FF6 0 01 (001-500) (0001 thru 0006) Hold

Analyse Digits Table: FF6 0 01						
(001-500)	0001	0002	0003	0004	0005	0006
Bin No.	Prefix ID	Digit String	Follow Digit Maximum	TRS Level	Route Type	Route No.
001	0-99	0-9, ∗ (up to 8 digits)	(up to 16 dig. after Analyse Digit string)	0-8	0=Route 1=Route List 2=Time List	0-200 0-100 0-50
002	0-99	0-9, ∗ (up to 8 digits)	(up to 16 dig. after Analyse Digit string)	0-8	0=Route 1=Route List 2=Time List	0-200 0-100 0-50
...	0-99	0-9, ∗ (up to 8 digits)	(up to 16 dig. after Analyse Digit string)	0-8	0=Route 1=Route List 2=Time List	0-200 0-100 0-50
500	0-99	0-9, ∗ (up to 8 digits)	(up to 16 dig. after Analyse Digit string)	0-8	0=Route 1=Route List 2=Time List	0-200 0-100 0-50

*NOTE: The system will search the Analyse Digits Table only if a Prefix ID 1-99 is entered for a dial string defined in the **Leading Digits Table (pg. 6-5).** The Analyse Digits Table allows further analysis of a dialled phone number whose beginning digits match an entry in the Leading Digits Table.*

If the Analyse Digits Table is used, the system will ignore the Leading Digits Table settings (Follow Digit Maximum, TRS Level, Route Type and Route Number), and will follow the settings here instead.

FF6 TRS/ARS

Analyse Digits Table: Prefix ID

(all CPCs) - Version 2.0 or higher

0001 :0
FD001 ID Code

Enter the Prefix ID created in **Leading Digits Table: Prefix ID (pg. 6-7)**.

FF6 0 01 (001-500) 0001 Hold (0-99) Hold

Analyse Digits Entry (Bin) No. 001-500

Prefix ID No. 1-99
default: 0=none

Notes:

Prefix IDs serve as index numbers for Leading Digit strings. The same Prefix ID (Leading Digit string) can be entered in the Analyse Digits Table as many times as necessary to cover all dialling possibilities for that Leading Digit string.

For example, Prefix ID #1 is assigned to Leading Digit String "1-900." Prefix ID #1 can have multiple entries in the Analyse Digits Table, to cover such dialling possibilities as "1-900-976," "1-900-888," "1-900-973-5555," etc.:

Bin No.	Prefix ID	Analyse Digit String
001	1	976∗
002	1	888∗
003	1	9735555

Related Programming:

Leading Digits Table: Prefix ID (pg. 6-7) **FF6 0 00 (001-100) 0002 Hold (0-99) Hold**

Analyse Digits Table: Digit String

0002 :
FD001 Number

(all CPCs) - Version 2.0 or higher

Assign up to 500 dial strings, which (along with the Leading Digits prefix string) will be matched with an actual dialled number.

FF6 0 01 (001-500) 0002 Hold (up to 8 digits) Hold

Analyse Digits Entry (Bin) No. 001-500

Digit String (up to 8 digits)
valid entries: digits 0-9, and ∗ (wild-card)

default: (none)

FF6
TRS/ARS

Notes:

Related Programming:

Leading Digits Table: Prefix String (pg. 6-6) **FF6 0 00 (001-100) 0001 Hold (up to 10 digits) Hold**

Analyse Digits Table: Follow Digit Maximum

0003 :0
FD001 Follow DGT

(all CPCs) - Version 2.0 or higher

(for TRS/ARS only) Assign the maximum number of digits the user can dial after the Analyse Digit string (defined in the previous address).

FF6 0 01 (001-500) 0003 Hold (0-16) Hold

Analyse Digits Entry (Bin) No. 001-500

Maximum No. of Dialled Digits Allowed after Analyse Digit string: 1-16 digits

default: 0=no maximum limitation

Notes:

This address applies only to TRS/ARS routing. It does not apply when TRS alone is used.

The system will start analysing the call immediately after the end-user has dialled the maximum (1-16) set in this address. However, if this address is set to **"0=no maximum (default)"**, the system doesn't know how many digits will be dialled. Therefore, the system will wait until the appropriate **Interdigit Timer** expires before processing the call.

Related Programming:

Analyse Digits Table: Digit String (pg. 6-12) FF6 0 01 (001-500) 0002 Hold (up to 8 digits) Hold
Interdigit Timer (ARS and ISDN Exchange Line) (pg. 1-133) FF1 1 01 0010 Hold (1-255) Hold
Interdigit Timer (DP SLTs) (pg. 1-154) FF1 1 03 0006 Hold (0-255) Hold
Interdigit Timer (DTMF SLTs) (pg. 1-155) FF1 1 03 0007 Hold (0-255) Hold
Interdigit Timer (Digital Keyphones) (pg. 1-155) FF1 1 03 0008 Hold (0-255) Hold

FF6
TRS/ARS

Analyse Digits Table: TRS Level

0004 :0
FD001 TRS Level

(all CPCs) - Version 2.0 or higher

Assign a TRS Level to each Analyse Digits entry. This TRS Level must be lower than the path's or originator's TRS Level for the call to be allowed.

FF6 0 01 (001-500) 0004 Hold (0-8) Hold

Analyse Digits Entry (Bin) No. 001-500

TRS Level 0-8
default: 0

Notes:

The TRS Level you assign to this dial string (above address) will be compared to the TRS Level assigned (in FF6 1) to the path or originator of the call attempt. The call will be ***allowed*** only if the ***dial string's*** TRS Level is ***lower than*** the path/originator's TRS Level.

- ❒ The “path” is the extension or DISA exchange line seizing an outbound exchange line. Applies when TRS alone is used (without ARS).
- ❒ The “originator” is the extension or DISA exchange line attempting an outgoing call (before the system selects a exchange line). Applies when TRS/ARS is used.

TRS Level 0 (when assigned to the path/originator) blocks all calls. TRS Level 9 (when assigned to the path/originator) allows all calls. TRS Level 9 can be assigned to the path or originator, but not to the dial string (0-8 only).

Related Programming:

for analog exchange lines:

TRS Class Assignment (Day) (pg. 2-35) FF2 0 BSSC 06 0 Hold (1-50) Hold
TRS Class Assignment (Night) (pg. 2-36) FF2 0 BSSC 06 1 Hold (1-50) Hold

for AC-15 private lines:

TRS Class Assignment (Day) (pg. 2-58) FF2 0 BSSC 06 0 Hold (1-50) Hold
TRS Class Assignment (Night) (pg. 2-58) FF2 0 BSSC 06 1 Hold (1-50) Hold

for ISDN exchange lines:

TRS Class Assignment (Day) (pg. 2-82) FF2 1 BSSC 07 0 Hold (1-50) Hold
TRS Class Assignment (Night) (pg. 2-82) FF2 1 BSSC 07 1 Hold (1-50) Hold

for T1-CO lines: (USA only)

TRS Class Assignment (Day) (pg. 2-112) FF2 2 BSSCC 07 0 Hold (1-50) Hold
TRS Class Assignment (Night) (pg. 2-113) FF2 2 BSSCC 07 1 Hold (1-50) Hold

for T1-E&M tie lines: (USA only)

TRS Class Assignment (Day) (pg. 2-135) FF2 2 BSSCC 07 0 Hold (1-50) Hold
TRS Class Assignment (Night) (pg. 2-135) FF2 2 BSSCC 07 1 Hold (1-50) Hold

for digital keyphones and SLTs:

TRS Class Assignment (Day) (pg. 3-25) FF3 0 BSSC 06 0 Hold (1-50) Hold
TRS Class Assignment (Night) (pg. 3-25) FF3 0 BSSC 06 1 Hold (1-50) Hold

for S-Point ISDN extensions:

TRS Class Assignment (Day) (pg. 3-37) FF3 1 BSSC 05 0 Hold (1-50) Hold
TRS Class Assignment (Night) (pg. 3-37) FF3 1 BSSC 05 1 Hold (1-50) Hold

TRS Level for Path (non-ARS) (pg. 6-17) FF6 1 00 (01-50) Hold (0001-0099) Hold (0-9) Hold
TRS Level for Originator (TRS/ARS) (pg. 6-19) FF6 1 01 (01-50) 0001 Hold (0-9) Hold

FF6
TRS/ARS

Analyse Digits Table: Route Type

0005 :0
FD001 Route Type

(all CPCs) - Version 2.0 or higher

(for TRS/ARS only) Assign the route type for each Analyse Digits entry.

FF6 0 01 (001-500) 0005 Hold (0-2) Hold

Analyse Digits Entry (Bin) No. 001-500

0=Follow the assigned Route. (default)
1=Follow the assigned Route List.
2=Follow the assigned Time List.

Notes:

Assign the Route, Route List, or Time List number in the next address.

This address applies only to TRS/ARS routing. It does not apply when TRS alone is used.

Related Programming:

Analyse Digits Table: Route Number (pg. 6-15) **FF6 0 01 (001-500) 0006 Hold (0-200/100/50) Hold**

Analyse Digits Table: Route Number

0006 :0
FD001 Route #

(all CPCs) - Version 2.0 or higher

(for TRS/ARS only) Assign a route number for each Analyse Digits entry, depending on the **Route Type** set in the previous address.

FF6 0 01 (001-500) 0006 Hold (0-200/100/50) Hold

Analyse Digits Entry (Bin) No. 001-500

Route 1-200
Route List 1-100
Time List 1-50

default: 0=no routing

Notes:

This address applies only to TRS/ARS routing. It does not apply when TRS alone is used.

Related Programming:

Analyse Digits Table: Route Type (pg. 6-14) **FF6 0 01 (001-500) 0005 Hold (0-2) Hold**
FF6 2 02: Time List Tables (pg. 6-29)
FF6 2 03: Route List Table (pg. 6-30)
FF6 2 04: Route Table (pg. 6-38)

FF6 1: TRS Class Definitions

NOTE: In these FF6 1 addresses, define TRS Classes 1-50 by assigning TRS restrictions and ARS routing to each of them.

These TRS Classes can be assigned to extensions and exchange lines in FF2 and FF3 (the default for all is TRS Class 1). The TRS Class assignment is used for TRS/ARS (or TRS alone) when the extension or DISA exchange line originates an outbound call.

FF6 1 00: TRS Class: Path Settings (non-ARS)

NOTE: This applies only when TRS alone is used. It does not apply to TRS/ARS.

Table 6-3. TRS Level for Path: FF6 1 00 (01-50) Hold (0001-0099) Hold (0-9) Hold

TRS Level for Path: FF6 1 00		
(01-50)	**(0001-0099)**	**(0-9)**
TRS Class	**Exch.Line Group No.**	**TRS Level**
01	0001	0-9
	0002	0-9
	0003	0-9
	...	0-9
	0099	0-9
02	0001	0-9
	0002	0-9
	0003	0-9
	...	0-9
	0099	0-9
...	0001	0-9
	0002	0-9
	0003	0-9
	...	0-9
	0099	0-9
50	0001	0-9
	0002	0-9
	0003	0-9
	...	0-9
	0099	0-9

TRS Level for Path (non-ARS)

0001 :9
CLS01 TG01 LV

(all CPCs) - Version 2.0 or higher

(for TRS only) Assign a TRS Level to each path possibillity (between the originator's TRS Class and the seized Exchange-Line Group).

FF6 1 00 (01-50) Hold (0001-0099) Hold (0-9) Hold

TRS Class 1-50 assigned to the ***terminal/circuit that will originate the call*** (eg., extension, DISA exch.line, etc.

Exch.Line Group 1-99 that the ***seized exch.line*** belongs to:
0001=Exch.Line Group #1
0002=Exch.Line Group #2
0003=Exch.Line Group #3
....
0099=Exch.Line Group #99

TRS Level 0-9:
0=Restrict all outbound calls.
1-8=Restrict dialling according to TRS settings in FF6.
9=Allow all calls. (default)

Notes:

This address applies only when TRS is used by itself. It does not apply to TRS/ARS.

The TRS Level you assign to the path (above address) will be compared to the TRS Level assigned (in FF6 0) to the dialled digit string. The call will be ***allowed*** only if the ***path's*** TRS Level is ***higher than*** the dialled digit string's TRS Level.

❒ The "path" is the extension or DISA exchange line seizing an outbound exchange line.

TRS Level 0 (when assigned to the path) blocks all calls. TRS Level 9 (when assigned to the path) allows all calls.

See figure (next page) for illustration.

Related Programming:

FF1 3: MCO Access in Tenant Groups (pg. 1-176)

for analog exchange lines:
TRS Class Assignment (Day) (pg. 2-35) FF2 0 BSSC 06 0 Hold (1-50) Hold
TRS Class Assignment (Night) (pg. 2-36) FF2 0 BSSC 06 1 Hold (1-50) Hold

for AC-15 private lines:
TRS Class Assignment (Day) (pg. 2-58) FF2 0 BSSC 06 0 Hold (1-50) Hold
TRS Class Assignment (Night) (pg. 2-58) FF2 0 BSSC 06 1 Hold (1-50) Hold

for ISDN exchange lines:
TRS Class Assignment (Day) (pg. 2-82) FF2 1 BSSC 07 0 Hold (1-50) Hold
TRS Class Assignment (Night) (pg. 2-82) FF2 1 BSSC 07 1 Hold (1-50) Hold

for T1-CO lines: (USA only)
TRS Class Assignment (Day) (pg. 2-112) FF2 2 BSSCC 07 0 Hold (1-50) Hold
TRS Class Assignment (Night) (pg. 2-113) FF2 2 BSSCC 07 1 Hold (1-50) Hold

for T1-E&M tie lines: (USA only)
TRS Class Assignment (Day) (pg. 2-135) FF2 2 BSSCC 07 0 Hold (1-50) Hold
TRS Class Assignment (Night) (pg. 2-135) FF2 2 BSSCC 07 1 Hold (1-50) Hold

for digital keyphones and SLTs:
TRS Class Assignment (Day) (pg. 3-25) FF3 0 BSSC 06 0 Hold (1-50) Hold
TRS Class Assignment (Night) (pg. 3-25) FF3 0 BSSC 06 1 Hold (1-50) Hold

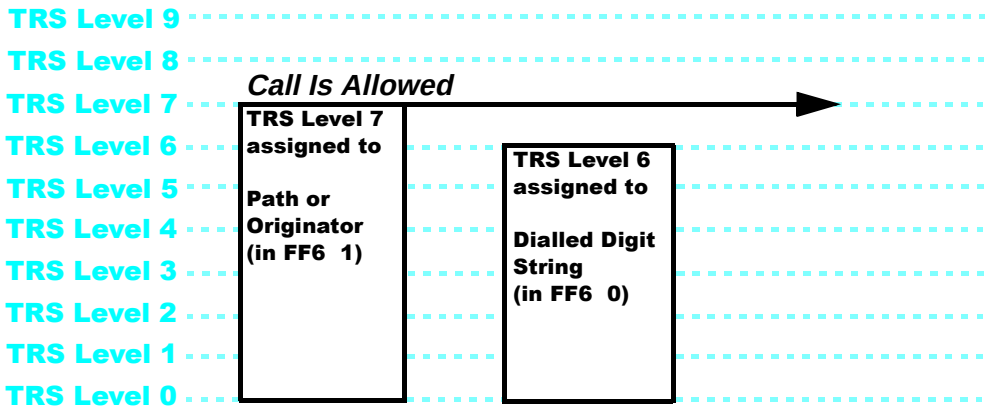
FF6 TRS/ARS

for S-Point ISDN extensions:

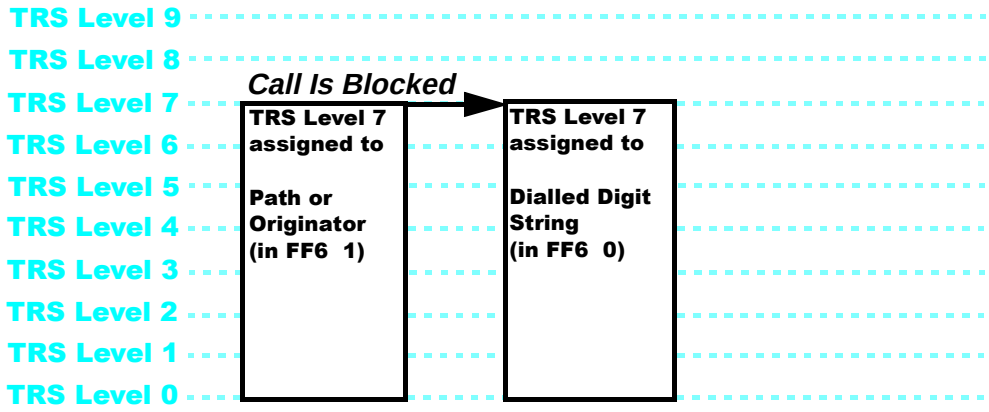
TRS Class Assignment (Day) (pg. 3-37) **FF3 1 BSSC 05 0 Hold (1-50) Hold**
TRS Class Assignment (Night) (pg. 3-37) **FF3 1 BSSC 05 1 Hold (1-50) Hold**
FF6 0 00: Leading Digits Table (pg. 6-5)
FF6 0 01: Analyse Digits Table (pg. 6-11)

Figure 6-1: TRS Levels comparison to allow/block the call

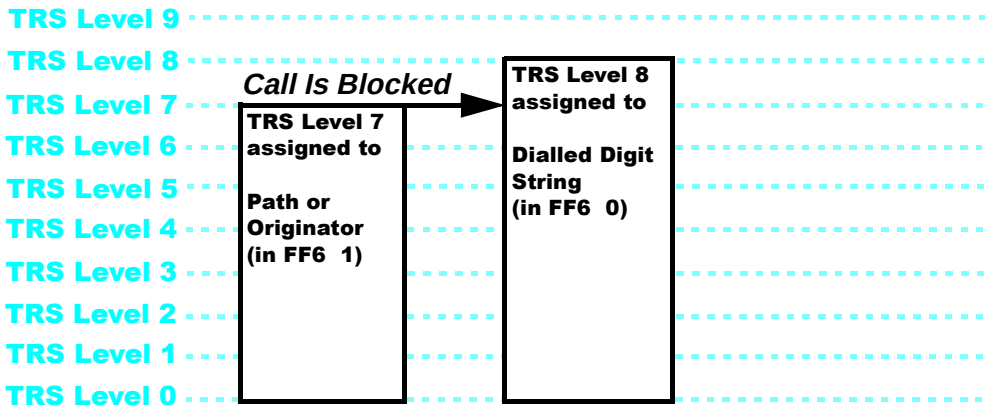
EXAMPLE #1: The originator's/path's TRS Level is higher than the dialled-digit string's TRS Level.



EXAMPLE #2: The originator's/path's TRS Level is equal to the dialled-digit string's TRS Level.



EXAMPLE #3: The originator's/path's TRS Level is lower than the dialled-digit string's TRS Level.



FF6 TRS/ARS

FF6 1 01: TRS Class: Originator Settings (TRS/ARS)

Table 6-4. TRS Class: TRS/ARS Levels: FF6 1 01 (01-50) (0001 thru 0003) Hold

TRS Class: TRS/ARS Levels: FF6 1 01			
(01-50)	0001	0002	0003
TRS Class No.	TRS Level	ARS Level	Exch.Line Queuing?
01	0-9	0-9	0=No 1=Yes
02	0-9	0-9	0=No 1=Yes
...	0-9	0-9	0=No 1=Yes
50	0-9	0-9	0=No 1=Yes

TRS Level for Originator (TRS/ARS)

0001 :9
CLS 01 TRS LV

(all CPCs) - Version 2.0 or higher

(for TRS/ARS only) Assign a TRS Level to each originator (via their assigned TRS Class).

FF6 1 01 (01-50) 0001 Hold (0-9) Hold

TRS Class 1-50 assigned to the originator of an outbound call (eg., extension, DISA exchange line, etc.

TRS Level 0-9:
0=Restrict all outbound calls.
1-8=Restrict dialling according to the Leading Digits/Analyse Digits Tables.
9=Allow all calls. (default)

DEFAULT EXCEPTIONS:		
for TRS Class Nos.	Default	Applies to these countries
TRS Class 1	**TRS Level 1**	all countries; applies when **Auto-Configuration (for single-CCU systems only) (pg. 0-6)** is performed.
TRS Class 2	**TRS Level 2**	
TRS Class 3	**TRS Level 3**	
TRS Class 4	**TRS Level 4**	
TRS Class 5	**TRS Level 5**	
TRS Class 6	**TRS Level 6**	
TRS Class 7	**TRS Level 7**	
TRS Class 8	**TRS Level 8**	

FF6 TRS/ARS

Notes:

This address applies only when TRS/ARS is used. It does not apply when TRS alone is used.

The TRS Level you assign to the originator (above address) will be compared to the TRS Level assigned (in FF6 0) to the dialled digit string. The call will be ***allowed*** only if the ***originator's*** TRS Level is ***higher than*** the dialled digit string's TRS Level.

- ❒ The "originator" is the extension or DISA exchange line attempting an outbound call (the system has not yet seized the exchange line).

TRS Level 0 (when assigned to the originator) blocks all calls. TRS Level 9 (when assigned to the originator) allows all calls. *(see illustration, previous page)*

Related Programming:

for analog exchange lines:
TRS Class Assignment (Day) (pg. 2-35) FF2 0 BSSC 06 0 Hold (1-50) Hold
TRS Class Assignment (Night) (pg. 2-36) FF2 0 BSSC 06 1 Hold (1-50) Hold

for AC-15 private lines:
TRS Class Assignment (Day) (pg. 2-58) FF2 0 BSSC 06 0 Hold (1-50) Hold
TRS Class Assignment (Night) (pg. 2-58) FF2 0 BSSC 06 1 Hold (1-50) Hold

for ISDN exchange lines:
TRS Class Assignment (Day) (pg. 2-82) FF2 1 BSSC 07 0 Hold (1-50) Hold
TRS Class Assignment (Night) (pg. 2-82) FF2 1 BSSC 07 1 Hold (1-50) Hold

for T1-CO lines: (USA only)
TRS Class Assignment (Day) (pg. 2-112) FF2 2 BSSCC 07 0 Hold (1-50) Hold
TRS Class Assignment (Night) (pg. 2-113) FF2 2 BSSCC 07 1 Hold (1-50) Hold

for T1-E&M tie lines: (USA only)
TRS Class Assignment (Day) (pg. 2-135) FF2 2 BSSCC 07 0 Hold (1-50) Hold
TRS Class Assignment (Night) (pg. 2-135) FF2 2 BSSCC 07 1 Hold (1-50) Hold

for digital keyphones and SLTs:
TRS Class Assignment (Day) (pg. 3-25) FF3 0 BSSC 06 0 Hold (1-50) Hold
TRS Class Assignment (Night) (pg. 3-25) FF3 0 BSSC 06 1 Hold (1-50) Hold

for S-Point ISDN extensions:
TRS Class Assignment (Day) (pg. 3-37) FF3 1 BSSC 05 0 Hold (1-50) Hold
TRS Class Assignment (Night) (pg. 3-37) FF3 1 BSSC 05 1 Hold (1-50) Hold

FF6 0 00: Leading Digits Table (pg. 6-5)
FF6 0 01: Analyse Digits Table (pg. 6-11)

FF6
TRS/ARS

ARS Level for Originator (Route List)

0002 :9
CLS 01 ARS LV

(all CPCs) - Version 2.0 or higher

(for TRS/ARS only) Assign an ARS Level to each originator (via their TRS Class).

FF6 1 01 (01-50) 0002 Hold (0-9) Hold

TRS Class 1-50 assigned to the originator of an outbound call (eg., extension, DISA exchange line, etc.

ARS Level 0-9

default: 9

Notes:

This address applies only when TRS/ARS is used. It does not apply when TRS alone is used.

This setting will be used in the **Route List Table (pg. 6-30).** If the originator's ARS Level (assigned in the above address) is higher than (or equal to) the ARS Level assigned to the Route in the **Route List Table,** the exchange-line group for that Route will be searched for an available exchange line. However, if the originator's ARS level is lower than the Route's ARS Level, call routing will stop and the user will receive busy tone.

Related Programming:

FF6 2 03: Route List Table (pg. 6-30)

Exchange-Line Queuing for Originator (Route List)

0003 :1
CLS 01 QT

(all CPCs) - Version 2.0 or higher

(for TRS/ARS only) Set whether the phone user will be queued (waiting) for an available exchange line when attempting to seize a busy Exchange-Line Group during ARS routing.

FF6 1 01 (01-50) 0003 Hold (0 or 1) Hold

TRS Class 1-50 assigned to the originator of an outbound call (eg., extension, DISA exchange line, etc.

0=Disable Queuing; go to next-priority route in Route List Table.

1=Enable Queuing; wait for an available exchange line in current Exch.Line Group. (default)

Notes:

This address applies only when TRS/ARS is used. It does not apply when TRS alone is used.

This setting will be used in the **Route List Table (pg. 6-30).** If set to **"1=Enable" (default)**, the call will be queued until an exchange line in the current Route's exchange-line group becomes available, or the **Queuing Timer (ARS) (pg. 1-149)** expires, whichever occurs first. If the Queuing Timer expires first, the call will move to the next-priority route.

However, if set to "0=Disable", the call will go immediately to the next-priority route in the Route List Table.

Related Programming:

FF6 2 03: Route List Table (pg. 6-30)
Queuing Timer (ARS) (pg. 1-149) FF1 1 02 0014 Hold (0-255) Hold

FF6 1 02: TRS Class: Dialling Restrictions

Table 6-5. TRS Class: Dialling Restrictions: FF6 1 02 (01-50) (0001 thru 0004) Hold

TRS Class: Dialling Restrictions: FF6 0 02				
(01-50)	**0001**	**0002**	**0003**	**0004**
TRS Class No.	**Outbound Dialled-Digit Maximum**	**Dialling Restriction During Inbound Calls**	**TRS Override on SSD Dialling**	**Star (*) and Pound (#) Restriction**
01	0=no restriction 1-20=max. no. of digits allowed	0=no restriction 1=restrict	0=restrict 1=no restriction	0=no restriction 1=restrict
02	0=no restriction 1-20=max. no. of digits allowed	0=no restriction 1=restrict	0=restrict 1=no restriction	0=no restriction 1=restrict
...	0=no restriction 1-20=max. no. of digits allowed	0=no restriction 1=restrict	0=restrict 1=no restriction	0=no restriction 1=restrict
50	0=no restriction 1-20=max. no. of digits allowed	0=no restriction 1=restrict	0=restrict 1=no restriction	0=no restriction 1=restrict

Outbound Dialled-Digit Maximum

0001 :0
CLS 01 DGT TRS

(all CPCs) - Version 2.0 or higher

Set the maximum number of digits that can be dialled by originators with this TRS Class.

FF6 1 02 (01-50) 0001 Hold (0-20) Hold

TRS Class 1-50 assigned to the originator of an outbound call (eg., extension, DISA exchange line, etc.

0=No restriction. (default)

1-20=Maximum number of digits allowed in dial string.

DEFAULT EXCEPTIONS:

for TRS Class Nos.	Default	Applies to these countries
TRS Class 1	**max. 1 digit**	all countries; applies when **Auto-Configuration (for single-CCU systems only) (pg. 0-6)** is performed.
TRS Class 2	**max. 5 digits**	
TRS Class 3	**max. 10 digits**	
TRS Class 4	**max. 10 digits**	
TRS Class 5	**max. 15 digits**	
TRS Class 6	**max. 15 digits**	
TRS Class 7	**max. 20 digits**	
TRS Class 8	**max. 20 digits**	

Notes:

When a user makes an outbound call attempt in TRS/ARS routing, the system will read this setting first, then (if the maximum is not exceeded) will check the Leading Digits Table.

Related Programming:

FF6 0 00: Leading Digits Table (pg. 6-5)
FF6 0 01: Analyse Digits Table (pg. 6-11)

for analog exchange lines:
TRS Class Assignment (Day) (pg. 2-35) FF2 0 BSSC 06 0 Hold (1-50) Hold
TRS Class Assignment (Night) (pg. 2-36) FF2 0 BSSC 06 1 Hold (1-50) Hold

for AC-15 private lines:
TRS Class Assignment (Day) (pg. 2-58) FF2 0 BSSC 06 0 Hold (1-50) Hold
TRS Class Assignment (Night) (pg. 2-58) FF2 0 BSSC 06 1 Hold (1-50) Hold

for ISDN exchange lines:
TRS Class Assignment (Day) (pg. 2-82) FF2 1 BSSC 07 0 Hold (1-50) Hold
TRS Class Assignment (Night) (pg. 2-82) FF2 1 BSSC 07 1 Hold (1-50) Hold

for T1-CO lines (USA only):
TRS Class Assignment (Day) (pg. 2-112) FF2 2 BSSCC 07 0 Hold (1-50) Hold
TRS Class Assignment (Night) (pg. 2-113) FF2 2 BSSCC 07 1 Hold (1-50) Hold

for T1-E&M tie lines (USA only):
TRS Class Assignment (Day) (pg. 2-135) FF2 2 BSSCC 07 0 Hold (1-50) Hold
TRS Class Assignment (Night) (pg. 2-135) FF2 2 BSSCC 07 1 Hold (1-50) Hold

FF6 TRS/ARS

for digital keyphones and SLTs:

TRS Class Assignment (Day) (pg. 3-25) **FF3 0 BSSC 06 0 Hold (1-50) Hold**
TRS Class Assignment (Night) (pg. 3-25) **FF3 0 BSSC 06 1 Hold (1-50) Hold**

for S-Point ISDN extensions:

TRS Class Assignment (Day) (pg. 3-37) **FF3 1 BSSC 05 0 Hold (1-50) Hold**
TRS Class Assignment (Night) (pg. 3-37) **FF3 1 BSSC 05 1 Hold (1-50) Hold**

FF6 0 00: Leading Digits Table (pg. 6-5)
FF6 0 01: Analyse Digits Table (pg. 6-11)

Dialling Restriction During Inbound Calls

0002 :0
CLS 01 INCOME TRS

(all CPCs) - Version 2.0 or higher

Set whether dialling during an incoming call is restricted for originators with this TRS Class.

FF6 1 02 (01-50) 0002 Hold (0 or 1) Hold

TRS Class 1-50 assigned to the originator of an outbound call (eg., extension, DISA exchange line, etc.

0=No restriction. (default)

1=Do not allow dialling on the extension during an incoming call.

DEFAULT EXCEPTIONS:

for TRS Class Nos.	Default	Applies to these countries
TRS Class 01-08	**1=Do not allow**	Hong Kong, Taiwan, Indonesia, Malaysia

Notes:

If an extension user receives an incoming call and remains off-hook after the caller hangs up, sometimes the Public Exchange will send dial tone to the extension, allowing an outgoing call to be placed without being routed through TRS or ARS. This address prevents that from happening, if set to "1=Do not allow."

FF6
TRS/ARS

Related Programming:

TRS Override on SSD Dialling

0003 :0
CLS 01 SSD TRS

(all CPCs) - Version 2.0 or higher

Set whether SSD dialling will override TRS for originators with this TRS Class.

FF6 1 02 (01-50) 0003 Hold (0 or 1) Hold

TRS Class 1-50 assigned to the originator of an outbound call (eg., extension, DISA exchange line, etc.

0=Do not allow SSDs to override TRS. (default)

1=Allow SSDs to override TRS.

Notes:

If this is set to **"0=Do not allow" (default)**, the system will check the phone number stored inside the SSD bin for TRS restrictions, and allow or block the call based on those restrictions.

If this is set to "1=Allow," users in this TRS Class can dial SSD numbers regardless of any TRS restrictions that may apply to the dialled number.

Related Programming:

Allowed SSD Range (pg. 6-26) FF6 1 03 0001 Hold (000-799) Hold
SSD Numbers (pg. 8-46) FF8 1 02 Hold 0 Hold Hold (00/0-79/9) Hold FL/R (up to 24 char.) Hold

Star (*) and Pound (#) Dialling Restriction

0004 :0
CLS 01 */# TRS

(all CPCs) - Version 2.0 or higher

Allow/Restrict dialling the * or # key for originators with this TRS Class.

FF6 1 02 (01-50) 0004 Hold (0 or 1) Hold

TRS Class 1-50 assigned to the originator of an outbound call (eg., extension, DISA exchange line, etc.

0=Allow * and # dialling. (default)

1=Do not allow * or # dialling.

DEFAULT EXCEPTIONS:

for TRS Class Nos.	Default	Applies to these countries
TRS Class 01-08	**1=Do not allow**	Hong Kong, Taiwan, Indonesia, Malaysia

Notes:

Related Programming:

FF6 TRS/ARS

FF6 1 03: TRS Class: SSD Range

Allowed SSD Range

0001 :0
SSD Override #

(all CPCs) - Version 2.0 or higher

Set the highest-numbered SSD code allowed to be dialled by originators with TRS Classes that are enabled for **TRS Override on SSD Dialling (pg. 6-25).**

FF6 1 03 0001 Hold (000-799) Hold

NOTE: The lowest allowed SSD code is always 000.

Highest-Numbered SSD Code Allowed

default: 0 (No TRS)

Notes:

The system will check this setting only if **TRS Override on SSD Dialling (pg. 6-25)** is set to "1=Allow" (the default is **"0=Do Not Allow"**).

Related Programming:

TRS Override on SSD Dialling (pg. 6-25) **FF6 1 02 (01-50) 0002 Hold (0 or 1) Hold**

FF6
TRS/ARS

FF6 2: ARS Settings

NOTE: *These addresses include ARS routing tables:*

- ❒ *Time List Tables*
- ❒ *Route List Table*
- ❒ *Closed Numbering Table*
- ❒ *Tandem Exchange Table*

FF6 2 00 thru 02: Time List Tables

NOTE: In the Time List Tables, you can set up ARS routing based on ***when the call is placed*** *-- time of day, day of week, or day of year (such as holiday). Each entry points to a Route List Table.*

Day of the Week for Time List Table

(all CPCs) - Version 2.0 or higher

0001 :1
SUN TL Pattern

Assign a Time List Table number to each day of the week.

FF6 2 00 (0001-0007) Hold (1-4) Hold

0001=Sunday
0002=Monday
0003=Tuesday
0004=Wednesday
0005=Thursday
0006=Friday
0007=Saturday

Time List Table No. 1-4

default: 1

Notes:

Related Programming:

Day of the Year for Time List Table

0001 :0000
Date01 MMDD

(all CPCs) - Version 2.0 or higher

Assign up to 20 Special Days during the year that are “exceptions to the rule” (such as holidays), and assign a Time List Table number to each.

FF6 2 01 (0001-0040) Hold (MMDD or 1-4) Hold

0001=Special Day 1:	Date	... 0101-1231
0002=Special Day 1:	Time List Tbl	... 1-4
0003=Special Day 2:	Date	... 0101-1231
0004=Special Day 2:	Time List Tbl	... 1-4
0005=Special Day 3:	Date	... 0101-1231
0006=Special Day 3:	Time List Tbl	... 1-4
...		...
0039=Special Day 20:	Date	... 0101-1231
0040=Special Day 20:	Time List Tbl	... 1-4

default: 0000 (Date) or 1 (Time List Table) for all Special Days

Notes:

Related Programming:

FF6
TRS/ARS

Time List Tables

0001 :0000
PTN0 TL01 TZ1 T

(all CPCs) - Version 2.0 or higher

Define up to 4 different Time List Tables, each with up to 50 time-period groups. Within each group, up to 5 different time periods can be entered, with each entry pointing to a Route List Table.

FF6 2 02 (0-3) (01-50) (0001-0010) Hold (0000-2359 or 0-100) Hold

Time List Table No.
0=Table #1
1=Table #2
2=Table #3
3=Table #4

defaults: 0000 (Start Time) and 0 (no assigned Route List)

Group No.
1-50

0001=Time Period #1 Start Time ... HHMM (0000-2359)
0002=Time Period #1 Route List ... (0-100)
0003=Time Period #2 Start Time ... HHMM (0000-2359)
0004=Time Period #2 Route List ... (0-100)
0005=Time Period #3 Start Time ... HHMM (0000-2359)
0006=Time Period #3 Route List ... (0-100)
0007=Time Period #4 Start Time ... HHMM (0000-2359)
0008=Time Period #4 Route List ... (0-100)
0009=Time Period #5 Start Time ... HHMM (0000-2359)
0010=Time Period #5 Route List ... (0-100)

Notes:

Related Programming:

FF6 2 03: Route List Table (pg. 6-30)

Table 6-6. Time List Tables #1 thru #4: FF6 2 02 (0-3) (01-50) (0001-0010) Hold

Time List Tables #1 thru #4: FF6 2 02								
		Time Period #1		Time Period #2		...	Time Period #5	
(0-3)	(01-50)	0001	0002	0003	0004	...	0009	0010
Table No.	Group No.	Start Time	Rt.List No.	Start Time	Rt.List No.	...	Start Time	Rt.List No.
0 (Tbl.#1)	01	0000-2359	0-100	0000-2359	0-100	...	0000-2359	0-100
	...	0000-2359	0-100	0000-2359	0-100	...	0000-2359	0-100
	50	0000-2359	0-100	0000-2359	0-100	...	0000-2359	0-100
1 (Tbl.#2)	01	0000-2359	0-100	0000-2359	0-100	...	0000-2359	0-100
	...	0000-2359	0-100	0000-2359	0-100	...	0000-2359	0-100
	50	0000-2359	0-100	0000-2359	0-100	...	0000-2359	0-100
2 (Tbl.#3)	01	0000-2359	0-100	0000-2359	0-100	...	0000-2359	0-100
	...	0000-2359	0-100	0000-2359	0-100	...	0000-2359	0-100
	50	0000-2359	0-100	0000-2359	0-100	...	0000-2359	0-100
3 (Tbl.#4)	01	0000-2359	0-100	0000-2359	0-100	...	0000-2359	0-100
	...	0000-2359	0-100	0000-2359	0-100	...	0000-2359	0-100
	50	0000-2359	0-100	0000-2359	0-100	...	0000-2359	0-100

FF6 TRS/ARS

FF6 2 03: Route List Table

NOTE: The Route List Table can contain up to 100 different routing paths. Each path can have up to 5 different Routes to be checked by the system in priority order when an outbound call is ARS-routed. Each Route points to an entry in the Route Table.

Table 6-7. Route List Table: FF6 2 03 (001-100) (0001 thru 0014) Hold

Route List Table: FF6 2 03									
	1st Priority Route		2nd Priority Route			...	5th Priority Route		
(001-100)	0001	0002	0003	0004	0005	...	0012	0013	0014
Bin No.	Route	ARS Level	Route	ARS Level	ARS Alarm	...	Route	ARS Level	ARS Alarm
001	0-200	0-9	0-200	0-9	0=OFF 1=ON	...	0-200	0-9	0=OFF 1=ON
002	0-200	0-9	0-200	0-9	0=OFF 1=ON	...	0-200	0-9	0=OFF 1=ON
...	0-200	0-9	0-200	0-9	0=OFF 1=ON	...	0-200	0-9	0=OFF 1=ON
100	0-200	0-9	0-200	0-9	0=OFF 1=ON	...	0-200	0-9	0=OFF 1=ON

Route List Table: 1st Priority Route No.

0001 :0
RL001 P1 RT #

(all CPCs) - Version 2.0 or higher

FF6
TRS/ARS

For each Route List Table entry, assign the first Route to be checked by the system.

FF6 2 03 (001-100) 0001 Hold (0-200) Hold

Route List Table Entry (Bin) No. 1-100

1st-Priority Route No. 1-200
default: 0 (not linked to Route Table)

Notes:

Route Nos. 1-200 are defined in **FF6 2 04: Route Table (pg. 6-38)**, in which each Route is assigned an Exchange-Line Group and a Digit Modify Pattern (if any) for adding digits to the beginning and/or end of the dialled number, or deleting digits from the beginning of it.

Related Programming:

Route Table: Exchange-Line Group Assignment (pg. 6-38) FF6 2 04 (001-200) 0001 Hold (0-99) Hold
Route Table: Digit Modify Pattern No. (pg. 6-39) FF6 2 04 (001-200) 0002 Hold (0-50) Hold

Route List Table: 1st Priority ARS Level

0002 :0
RL001 P1 ARS LV

(all CPCs) - Version 2.0 or higher

Assign an ARS Level to the first-priority Route.

FF6 2 03 (001-100) 0002 Hold (0-9) Hold

Route List Table Entry (Bin) No. 1-100

ARS Level 0-9 for 1st-Priority Route

default: Level 0

Notes:

If the ***route's*** ARS Level is higher than the ***call originator's*** ARS Level**,** ARS routing will stop and the caller will receive busy tone.

However, if the route's ARS level is lower than or equal to the originator's ARS Level, the system will search for an available exchange line in the current-priority Route. If all exchange lines are busy, the system will either continue to the next-priority route, or queue the call to wait for an available exchange line on the current-priority route (if **Exchange-Line Queuing for Originator (Route List)** is enabled/ default).

Related Programming:

ARS Level for Originator (Route List) (pg. 6-20) FF6 1 01 (01-50) 0002 Hold (0-9) Hold
Exchange-Line Queuing for Originator (Route List) (pg. 6-21) FF6 1 01 (01-50) 0003 Hold (0 or 1) Hold
Route List Table: 1st Priority Route No. (pg. 6-30) FF6 2 03 (001-100) 0001 Hold (0-200) Hold
Route List Table: 2nd Priority Route No. (pg. 6-31) FF6 2 03 (001-100) 0003 Hold (0-200) Hold

Route List Table: 2nd Priority Route No.

0003 :0
RL001 P2 RT #

(all CPCs) - Version 2.0 or higher

For each Route List Table entry, assign the second Route to be checked by the system.

FF6 2 03 (001-100) 0003 Hold (0-200) Hold

Route List Table Entry (Bin) No. 1-100

2nd-Priority Route No. 1-200

default: 0 (not linked to Route Table)

Notes:

Route Nos. 1-200 are defined in **FF6 2 04: Route Table (pg. 6-38)**, in which each Route is assigned an Exchange-Line Group and a Digit Modify Pattern (if any) for adding digits to the beginning and/or end of the dialled number, or deleting digits from the beginning of it.

Related Programming:

Route Table: Exchange-Line Group Assignment (pg. 6-38) FF6 2 04 (001-200) 0001 Hold (0-99) Hold
Route Table: Digit Modify Pattern No. (pg. 6-39) FF6 2 04 (001-200) 0002 Hold (0-50) Hold

Route List Table: 2nd Priority ARS Level

0004 :0
RL001 P2 ARS LV

(all CPCs) - Version 2.0 or higher

Assign an ARS Level to the second-priority Route.

FF6 2 03 (001-100) 0004 Hold (0-9) Hold

Route List Table Entry (Bin) No. 1-100

ARS Level 0-9 for 2nd-Priority Route

default: Level 0

Notes:

If the ***route's*** ARS Level is higher than the ***call originator's*** ARS Level**,** ARS routing will stop and the caller will receive busy tone.

However, if the route's ARS level is lower than or equal to the originator's ARS Level, the system will search for an available exchange line in the current-priority Route. If all exchange lines are busy, the system will either continue to the next-priority route, or queue the call to wait for an available exchange line on the current-priority route (if **Exchange-Line Queuing for Originator (Route List)** is enabled/ default).

Related Programming:

ARS Level for Originator (Route List) (pg. 6-20) FF6 1 01 (01-50) 0002 Hold (0-9) Hold
Exchange-Line Queuing for Originator (Route List) (pg. 6-21) FF6 1 01 (01-50) 0003 Hold (0 or 1) Hold
Route List Table: 2nd Priority Route No. (pg. 6-31) FF6 2 03 (001-100) 0003 Hold (0-200) Hold
Route List Table: 3rd Priority Route No. (pg. 6-33) FF6 2 03 (001-100) 0006 Hold (0-200) Hold

FF6
TRS/ARS

Route List Table: 2nd Priority ARS Alarm

0005 :0
RL001 P2 WT

(all CPCs) - Version 2.0 or higher

Enable/Disable the ARS Alarm for the second-priority Route.

FF6 2 03 (001-100) 0005 Hold (0 or 1) Hold

Route List Table Entry (Bin) No. 1-100

0=Alarm OFF for 2nd Route (default)
1=Alarm ON for 2nd Route

Notes:

The **ARS Alarm** tells callers they are going to be using a more-expensive (lower-priority) exchange line. The ARS Alarm sounds in the receiver only once, just before the system seizes the exchange line.

Related Programming:

Route List Table: 2nd Priority Route No. (pg. 6-31) FF6 2 03 (001-100) 0003 Hold (0-200) Hold

Route List Table: 3rd Priority Route No.

0006 :0
RL001 P3 RT #

(all CPCs) - Version 2.0 or higher

For each Route List Table entry, assign the third Route to be checked by the system.

FF6 2 03 (001-100) 0006 Hold (0-200) Hold

Route List Table Entry (Bin) No. 1-100

3rd-Priority Route No. 1-200

default: 0 (not linked to Route Table)

Notes:

Route Nos. 1-200 are defined in **FF6 2 04: Route Table (pg. 6-38)**, in which each Route is assigned an Exchange-Line Group and a Digit Modify Pattern (if any) for adding digits to the beginning and/or end of the dialled number, or deleting digits from the beginning of it.

Related Programming:

Route Table: Exchange-Line Group Assignment (pg. 6-38) FF6 2 04 (001-200) 0001 Hold (0-99) Hold
Route Table: Digit Modify Pattern No. (pg. 6-39) FF6 2 04 (001-200) 0002 Hold (0-50) Hold

Route List Table: 3rd Priority ARS Level

0007 :0
RL001 P3 ARS LV

(all CPCs) - Version 2.0 or higher

Assign an ARS Level to the third-priority Route.

FF6 2 03 (001-100) 0007 Hold (0-9) Hold

Route List Table Entry (Bin) No. 1-100

ARS Level 0-9 for 3rd-Priority Route

default: Level 0

FF6 TRS/ARS

Notes:

If the ***route's*** ARS Level is higher than the ***call originator's*** ARS Level**,** ARS routing will stop and the caller will receive busy tone.

However, if the route's ARS level is lower than or equal to the originator's ARS Level, the system will search for an available exchange line in the current-priority Route. If all exchange lines are busy, the system will either continue to the next-priority route, or queue the call to wait for an available exchange line on the current-priority route (if **Exchange-Line Queuing for Originator (Route List)** is enabled/ default).

Related Programming:

ARS Level for Originator (Route List) (pg. 6-20) FF6 1 01 (01-50) 0002 Hold (0-9) Hold
Exchange-Line Queuing for Originator (Route List) (pg. 6-21) FF6 1 01 (01-50) 0003 Hold (0 or 1) Hold
Route List Table: 3rd Priority Route No. (pg. 6-33) FF6 2 03 (001-100) 0006 Hold (0-200) Hold
Route List Table: 4th Priority Route No. (pg. 6-34) FF6 2 03 (001-100) 0009 Hold (0-200) Hold

Route List Table: 3rd Priority ARS Alarm

0008 :0
RL001 P3 WT

(all CPCs) - Version 2.0 or higher

Enable/Disable the ARS Alarm for the third-priority Route.

FF6 2 03 (001-100) 0008 Hold (0 or 1) Hold

Route List Table Entry (Bin) No. 1-100

0=Alarm OFF for 3rd Route (default)
1=Alarm ON for 3rd Route

Notes:

The **ARS Alarm** tells callers they are going to be using a more-expensive (lower-priority) exchange line. The ARS Alarm sounds in the receiver only once, just before the system seizes the exchange line.

Related Programming:

Route List Table: 3rd Priority Route No. (pg. 6-33) FF6 2 03 (001-100) 0006 Hold (0-200) Hold

Route List Table: 4th Priority Route No.

0009 :0
RL001 P4 RT #

(all CPCs) - Version 2.0 or higher

For each Route List Table entry, assign the fourth Route to be checked by the system.

FF6 2 03 (001-100) 0009 Hold (0-200) Hold

Route List Table Entry (Bin) No. 1-100

4th-Priority Route No. 1-200
default: 0 (not linked to Route Table)

FF6
TRS/ARS

Notes:

Route Nos. 1-200 are defined in **FF6 2 04: Route Table (pg. 6-38)**, in which each Route is assigned an Exchange-Line Group and a Digit Modify Pattern (if any) for adding digits to the beginning and/or end of the dialled number, or deleting digits from the beginning of it.

Related Programming:

Route Table: Exchange-Line Group Assignment (pg. 6-38) FF6 2 04 (001-200) 0001 Hold (0-99) Hold
Route Table: Digit Modify Pattern No. (pg. 6-39) FF6 2 04 (001-200) 0002 Hold (0-50) Hold

Route List Table: 4th Priority ARS Level

0010 :0
RL001 P4 ARS LV

(all CPCs) - Version 2.0 or higher

Assign an ARS Level to the fourth-priority Route.

FF6 2 03 (001-100) 0010 Hold (0-9) Hold

Route List Table Entry (Bin) No. 1-100

ARS Level 0-9 for 4th-Priority Route
default: Level 0

Notes:

If the ***route's*** ARS Level is higher than the ***call originator's*** ARS Level**,** ARS routing will stop and the caller will receive busy tone.

However, if the route's ARS level is lower than or equal to the originator's ARS Level, the system will search for an available exchange line in the current-priority Route. If all exchange lines are busy, the system will either continue to the next-priority route, or queue the call to wait for an available exchange line on the current-priority route (if **Exchange-Line Queuing for Originator (Route List)** is enabled/ default).

Related Programming:

ARS Level for Originator (Route List) (pg. 6-20) FF6 1 01 (01-50) 0002 Hold (0-9) Hold
Exchange-Line Queuing for Originator (Route List) (pg. 6-21) FF6 1 01 (01-50) 0003 Hold (0 or 1) Hold
Route List Table: 4th Priority Route No. (pg. 6-34) FF6 2 03 (001-100) 0009 Hold (0-200) Hold
Route List Table: 5th Priority Route No. (pg. 6-36) FF6 2 03 (001-100) 0012 Hold (0-200) Hold

Route List Table: 4th Priority ARS Alarm

0011 :0
RL001 P4 WT

(all CPCs) - Version 2.0 or higher

Enable/Disable the ARS Alarm for the fourth-priority Route.

FF6 2 03 (001-100) 0011 Hold (0 or 1) Hold

Route List Table Entry (Bin) No. 1-100

0=Alarm OFF for 4th Route (default)
1=Alarm ON for 4th Route

Notes:

The **ARS Alarm** tells callers they are going to be using a more-expensive (lower-priority) exchange line. The ARS Alarm sounds in the receiver only once, just before the system seizes the exchange line.

Related Programming:

Route List Table: 4th Priority Route No. (pg. 6-34) FF6 2 03 (001-100) 0009 Hold (0-200) Hold

Route List Table: 5th Priority Route No.

0012 :0
RL001 P5 RT #

(all CPCs) - Version 2.0 or higher

For each Route List Table entry, assign the fifth Route to be checked by the system.

FF6 2 03 (001-100) 0012 Hold (0-200) Hold

Route List Table Entry (Bin) No. 1-100

5th-Priority Route No. 1-200
default: 0 (not linked to Route Table)

Notes:

Route Nos. 1-200 are defined in **FF6 2 04: Route Table (pg. 6-38)**, in which each Route is assigned an Exchange-Line Group and a Digit Modify Pattern (if any) for adding digits to the beginning and/or end of the dialled number, or deleting digits from the beginning of it.

Related Programming:

Route Table: Exchange-Line Group Assignment (pg. 6-38) FF6 2 04 (001-200) 0001 Hold (0-99) Hold
Route Table: Digit Modify Pattern No. (pg. 6-39) FF6 2 04 (001-200) 0002 Hold (0-50) Hold

Route List Table: 5th Priority ARS Level

0013 :0
RL001 P5 ARS LV

(all CPCs) - Version 2.0 or higher

Assign an ARS Level to the fifth-priority Route.

FF6 2 03 (001-100) 0013 Hold (0-9) Hold

Route List Table Entry (Bin) No. 1-100

ARS Level 0-9 for 5th-Priority Route
default: Level 0

FF6 TRS/ARS

Notes:

If the ***route's*** ARS Level is higher than the ***call originator's*** ARS Level**,** ARS routing will stop and the caller will receive busy tone.

However, if the route's ARS level is lower than or equal to the originator's ARS Level, the system will search for an available exchange line in the current (5th)-priority Route. If all exchange lines are busy, the system will either queue the call to wait for an available exchange line on the 5th-priority route (if **Exchange-Line Queuing for Originator (Route List)** is enabled/default), or give the caller busy tone (if **Trunk Queuing** is disabled).

Related Programming:

ARS Level for Originator (Route List) (pg. 6-20) FF6 1 01 (01-50) 0002 Hold (0-9) Hold
Exchange-Line Queuing for Originator (Route List) (pg. 6-21) FF6 1 01 (01-50) 0003 Hold (0 or 1) Hold
Route List Table: 5th Priority Route No. (pg. 6-36) FF6 2 03 (001-100) 0012 Hold (0-200) Hold

Route List Table: 5th Priority ARS Alarm

0014 :0
RL001 P5 WT

(all CPCs) - Version 2.0 or higher

Enable/Disable the ARS Alarm for the fifth-priority Route.

FF6 2 03 (001-100) 0014 Hold (0 or 1) Hold

Route List Table Entry (Bin) No. 1-100

0=Alarm OFF for 5th Route (default)
1=Alarm ON for 5th Route

Notes:

The **ARS Alarm** tells callers they are going to be using a more-expensive (lower-priority) exchange line. The ARS Alarm sounds in the receiver only once, just before the system seizes the exchange line.

Related Programming:

Route List Table: 5th Priority Route No. (pg. 6-36) FF6 2 03 (001-100) 0012 Hold (0-200) Hold

FF6
TRS/ARS

FF6 2 04: Route Table

NOTE: The Route Table contains up to 200 entries. Each entry is assigned an Exchange-Line Group and a Digit Modify Pattern No. (which points to the Digit Modify Table in FF6 2 05, for adding digits to the beginning or end of the dialled number, or deleting digits from the beginning of it).

Table 6-8. Route Table: FF6 2 04 (001-200) (0001 and 0002) Hold

Route Table: FF6 2 04		
(001-200)	0001	0002
Route No.	Exch.Line Group	Digit Modify Pattern
001	0-99	0-50
002	0-99	0-50
...	0-99	0-50
200	0-99	0-50

Route Table: Exchange-Line Group Assignment

0001 :0
RT001 Trunk G #

(all CPCs) - Version 2.0 or higher

Assign an Exchange-Line Group to each Route.

FF6 2 04 (001-200) 0001 Hold (0-99) Hold

Route No. 001-200

Exchange-Line Group No. 1-99

default: 0 (none)

FF6
TRS/ARS

Notes:

Exchange Lines are assigned to Exchange-Line Groups in FF5 2.

Related Programming:

MCO Outbound Search Mode (pg. 5-19) FF5 2 (01-99) 001 Hold (0 or 1) Hold
MCO Outbound Exchange-Line Group Members (pg. 5-20) FF5 2 (01-99) (002-577) Hold (1-576) Hold

Route Table: Digit Modify Pattern No.

0002 :0
RT001 MD TBL #

(all CPCs) - Version 2.0 or higher

Assign a Digit Modify Pattern to each Route.

FF6 2 04 (001-200) 0002 Hold (0-50) Hold

Route No. 001-200

Digit Modify Pattern No. 1-50

default: 0 [no assignment]

Notes:

Digit Modify Patterns are used for deleting digits from the beginning of a dialled number, or adding digits to the beginning and/or end of it.

Related Programming:

Route Table: Exchange-Line Group Assignment (pg. 6-38) FF6 2 04 (001-200) 0001 Hold (0-99) Hold
Digit Modify Table: Delete Beginning Digits (pg. 6-40) FF6 2 05 (01-50) 0001 Hold (0-24) Hold
Digit Modify Table: Add Beginning Digits (pg. 6-41) FF6 2 05 (01-50) 0002 Hold (up to 10 char.) Hold
Digit Modify Table: Add Ending Digits (pg. 6-42) FF6 2 05 (01-50) 0003 Hold (up to 10 char.) Hold

FF6 2 05: Digit Modify Table

NOTE: The Digit Modify Table contains up to 50 entries ("Patterns") for any combination of the following:

- ❒ *deleting digits from the beginning of the dialed number*
- ❒ *adding digits to the beginning of the dialed number*
- ❒ *adding digits to the end of the dialed number.*

The Digit Modify Patterns can be assigned to Route Table entries in FF6 2 04.

Table 6-9. Digit Modify Table: FF6 2 05 (01-50) (0001 thru 0003) Hold

Digit Modify Table: FF6 2 05			
(01-50)	0001	0002	0003
Digit Modify Pattern No.	Delete Beginning Digits	Add Beginning Digits	Add Ending Digits
01	up to 24 digits	up to 10 digits, including 0-9, ⋆, #, and One-Touch keys + codes	up to 10 digits, including 0-9, ⋆, #, and One-Touch keys + codes
02	up to 24 digits	up to 10 digits, including 0-9, ⋆, #, and One-Touch keys + codes	up to 10 digits, including 0-9, ⋆, #, and One-Touch keys + codes
...	up to 24 digits	up to 10 digits, including 0-9, ⋆, #, and One-Touch keys + codes	up to 10 digits, including 0-9, ⋆, #, and One-Touch keys + codes
50	up to 24 digits	up to 10 digits, including 0-9, ⋆, #, and One-Touch keys + codes	up to 10 digits, including 0-9, ⋆, #, and One-Touch keys + codes

Digit Modify Table: Delete Beginning Digits

0001 :0
MD 01 Delete DGT

(all CPCs) - Version 2.0 or higher

Set the number of digits the system will take away from the beginning of the dialled-digit string when the number is sent to the public exchange.

FF6 2 05 (01-50) 0001 Hold (0-24) Hold

Digit Modify Pattern No. 01-50

No. of digits to be removed from the beginning of a dialled number

default: 0

Notes:

The Digit Modify Patterns can be assigned to Routes in the **Route Table (pg. 6-38).**

Related Programming:

Route Table: Digit Modify Pattern No. (pg. 6-39) FF6 2 04 (001-200) 0002 Hold (0-50) Hold

Digit Modify Table: Add Beginning Digits

0002 :
MD 01 Prefix DG

(all CPCs) - Version 2.0 or higher

Specify the digit(s) that the system will add to the beginning of a dialled-digit string when the number is sent to the public exchange.

FF6 2 05 (01-50) 0002 Hold (up to 10 char.) Hold

Digit Modify Pattern No. 01-50

Digits or Codes to be added to the beginning of a dialled number, including:
Digits 0-9
∗ and #
("OT" = One-Touch key) OT-4 (for pause)
OT-5 + 6 (for DTMF conversion)
OT-5 + 9 (for itemised code) -*U.K. only*
OT-5 + (1-8) (for auth. code) -*U.K. only*

default: (none)

Notes:

The "itemised code" OT-5 + 9 is used in the U.K. to send the calling extension's number to the public exchange.

The "authorisation code" OT-5 + (1-8) is used in the U.K. to send a system identifier code to the public exchange when the system seizes the exchange line.

The Digit Modify Patterns can be assigned to Routes in the **Route Table (pg. 6-38).**

Related Programming:

Route Table: Digit Modify Pattern No. (pg. 6-39) FF6 2 04 (001-200) 0002 Hold (0-50) Hold
Authorisation Code (pg. 6-43) FF6 2 06 (0001-0008) Hold (up to 10 digits) Hold

Digit Modify Table: Add Ending Digits

0003 : MD 01 Suffix DGT

(all CPCs) - Version 2.0 or higher

Specify the digit(s) that the system will add to the end of a dialled digit string when the number is sent to the public exchange.

FF6 2 05 (01-50) 0003 Hold (up to 10 char.) Hold

Digit Modify Pattern No. 01-50

Digits or Codes to be added to the end of a dialled number, including:
Digits 0-9
∗ and #
("OT" = One-Touch key) OT-4 (for pause)
OT-5 + 6 (for DTMF conversion)
OT-5 + 9 (for itemised code) -*U.K. only*
OT-5 + (1-8) (for auth. code) -*U.K. only*

default: (none)

Notes:

The "itemised code" OT-5 + 9 is used in the U.K. to send the calling extension's number to the public exchange.

The "authorisation code" OT-5 + (1-8) is used in the U.K. to send a system identifier code to the public exchange when the system seizes the exchange line.

The Digit Modify Patterns can be assigned to Routes in the **Route Table (pg. 6-38).**

Related Programming:

Route Table: Digit Modify Pattern No. (pg. 6-39) FF6 2 04 (001-200) 0002 Hold (0-50) Hold
Authorisation Code (pg. 6-43) FF6 2 06 (0001-0008) Hold (up to 10 digits) Hold

FF6 TRS/ARS

FF6 2 06: Authorisation Codes

Authorisation Code

0001 : Authorization 1

(all CPCs) - Version 2.0 or higher

(U.K. use only) Specify the digit(s) of the Authorisation Code sent to the public exchange every time an exchange line is seized.

FF6 2 06 (0001-0008) Hold (up to 10 digits) Hold

Code Entry No. 1-8

Authorisation Code
(up to 10 digits, including 0-9)

default: (none)

Notes:

When the Authorisation Code is assigned in this address, it is not displayed on the LCD (per government regulations). Instead, a ∗ appears for each digit in the Code.

Related Programming:

Digit Modify Table: Add Beginning Digits (pg. 6-41) FF6 2 05 (01-50) 0002 Hold (up to 10 char.) Hold
Digit Modify Table: Add Ending Digits (pg. 6-42) FF6 2 05 (01-50) 0003 Hold (up to 10 char.) Hold

FF6 TRS/ARS

FF6 2 07: Closed Number Table

Table 6-10. Closed Number Table: FF6 2 07 (001-150) (0001 thru 0005) Hold

Closed Number Table: FF6 2 07					
(001-150)	0001	0002	0003	0004	0005
Entry No.	Closed No. Digit String	Follow Digit Maximum	TRS Level	Route Type	Route No.
001	1 to 4 digits long, including 0-9, ∗ and #	0-16 digits can be dialled after Closed No. Digits	0-8	0=Route 1=Route List	1-200 1-100
002	1 to 4 digits long, including 0-9, ∗ and #	0-16 digits can be dialled after Closed No. Digits	0-8	0=Route 1=Route List	1-200 1-100
...	1 to 4 digits long, including 0-9, ∗ and #	0-16 digits can be dialled after Closed No. Digits	0-8	0=Route 1=Route List	1-200 1-100
150	1 to 4 digits long, including 0-9, ∗ and #	0-16 digits can be dialled after Closed No. Digits	0-8	0=Route 1=Route List	1-200 1-100

Closed Number Table: Digit String

0001 : C001 Closed #

(all CPCs) - Version 2.0 or higher

Define up to 150 different Closed Numbers.

FF6 2 07 (001-150) 0001 Hold (1-4 digits) Hold

Closed Number Entry:
001=Closed Number #1
002=Closed Number #2
...
150=Closed Number #150

Closed Number Digits (can be 1-4 digits in length, including digits 0-9, ∗ and #)

default: [no assignment]

IMPORTANT: The Closed Number Digits must not match an Extension Number.

FF6 TRS/ARS

Notes:

If a ∗ is entered in this address, the system will dial it as a ∗ (it is not a wild-card character).

Related Programming:

Ext.No. Display for Closed-Number Calls (pg. 1-118) FF1 0 20 0001 Hold (0-4) Hold

Closed Number Table: Follow Digit Maximum

0002 :0
C001 Follow DGT

(all CPCs) - Version 2.0 or higher

Specify the maximum number of digits that can be dialled after a Closed Number.

FF6 2 07 (001-150) 0002 Hold (0-16) Hold

Closed Number Entry:
001=Closed Number #1
002=Closed Number #2
....
150=Closed Number #150

Maximum Number of dialled digits after the Closed Number

default: 0 (no maximum)

Notes:

Related Programming:

Closed Number Table: Digit String (pg. 6-44) **FF6 2 07 (001-150) 0001 Hold (1-4 digits) Hold**

Closed Number Table: TRS Level

0003 :0
C001 TRS Level

(all CPCs) - Version 2.0 or higher

Assign a TRS Level to each Closed Number.

FF6 2 07 (001-150) 0003 Hold (0-8) Hold

Closed Number Entry:
001=Closed Number #1
002=Closed Number #2
...
150=Closed Number #150

TRS Level 0-8

default: 0 (restrict all outbound calls)

FF6
TRS/ARS

Notes:

If a TRS Level is assigned here, the system will check the setting in **TRS Level for Originator (TRS/ARS) (pg. 6-19)**.

TRS Level 9 allows all calls, so it is not included here.

Related Programming:

TRS Level for Originator (TRS/ARS) (pg. 6-19) **FF6 1 01 (01-50) 0001 Hold (0-9) Hold**

Closed Number Table: Route Type

0004 :0
C001 Route Type

(all CPCs) - Version 2.0 or higher

Set which table the system will follow when the Closed Number is dialled.

FF6 2 07 (001-150) 0004 Hold (0 or 1) Hold

Closed Number Entry:
001=Closed Number #1
002=Closed Number #2
...
150=Closed Number #150

0=Route (default)
1=Route List

Notes:

The Route or Route List number is assigned in the next address.

Related Programming:

Closed Number Table: Route Number (pg. 6-46) **FF6 2 07 (001-150) 0005 Hold (1-200/100) Hold**
FF6 2 03: Route List Table (pg. 6-30)
FF6 2 04: Route Table (pg. 6-38)

Closed Number Table: Route Number

0005 :0
C001 Route #

(all CPCs) - Version 2.0 or higher

Assign a route to the Closed Number, depending on the setting in the previous address.

FF6 2 07 (001-150) 0005 Hold (1-200/100) Hold

FF6
TRS/ARS

Closed Number Entry:
001=Closed Number #1
002=Closed Number #2
...
150=Closed Number #150

Route 1-200 or
Route List 1-100

default: 0

Notes:

Related Programming:

Closed Number Table: Route Type (pg. 6-46) **FF6 2 07 (001-150) 0004 Hold (0 or 1) Hold**
FF6 2 03: Route List Table (pg. 6-30)
FF6 2 04: Route Table (pg. 6-38)

FF6 2 08: Tandem Exchange Table

Table 6-11. Tandem Exchange Table: FF6 2 08 (01-50) (0001 thru 0004) Hold

Tandem Exchange Table: FF6 2 08				
(01-50)	0001	0002	0003	0004
Entry No.	Tandem Exchange Digit String	Follow Digit Maximum	Route Type	Route No.
01	1 to 4 digits long, including 0-9, ∗ and #	0-16	0=Route 1=Route List 2=local PBX	1-200 1-100
02	1 to 4 digits long, including 0-9, ∗ and #	0-16	0=Route 1=Route List 2=local PBX	1-200 1-100
...				
50	1 to 4 digits long, including 0-9, ∗ and #	0-16	0=Route 1=Route List 2=local PBX	1-200 1-100

Tandem Exchange Table: Digit String

0001 :
T01 Tandem #

(all CPCs) - Version 2.0 or higher

Define up to 50 different Tandem Exchange numbers.

FF6 2 08 (01-50) 0001 Hold (1-4 digits) Hold

Tandem Exchange Entry No. 01-50

Tandem Exchange Number (can be 1-4 digits long, including digits 0-9, ∗ and #)

default: (none)

FF6 TRS/ARS

Notes:

Tandem Exchange applies to AC-15 private lines set to “Tandem.”

Related Programming:

Day1 Ring Type (pg. 2-54) for AC-15 private lines **FF2 0 BSSC 03 0 Hold (0 or 1) Hold**
Day2 Ring Type (pg. 2-55) for AC-15 private lines **FF2 0 BSSC 03 2 Hold (0 or 1) Hold**
Night Ring Type (pg. 2-55) for AC-15 private lines **FF2 0 BSSC 03 4 Hold (0 or 1) Hold**
Day1 Ring Type (pg. 2-131) for T1-E&M tie lines *(USA only)* **FF2 2 BSSCC 04 0 Hold (0 or 1) Hold**
Day2 Ring Type (pg. 2-132) for T1-E&M tie lines *(USA only)* **FF2 2 BSSCC 04 2 Hold (0 or 1) Hold**
Night Ring Type (pg. 2-133) for T1-E&M tie lines *(USA only)* **FF2 2 BSSCC 04 4 Hold (0 or 1) Hold**

Tandem Exchange Table: Follow Digit Maximum

0002 :0
T01 Follow DGT

(all CPCs) - Version 2.0 or higher

Specify the maximum number of digits that can be dialled after a Tandem Exchange number.

FF6 2 08 (01-50) 0002 Hold (0-16) Hold

Tandem Exchange Entry 1-50

Maximum Number of dialled digits after the Tandem Exchange Number

default: 0 (no maximum)

Notes:

Related Programming:

Tandem Exchange Table: Route Type

0003 :0
T01 Route Type

(all CPCs) - Version 2.0 or higher

Set which table the system will follow when the Tandem Exchange number is dialled.

FF6 2 08 (01-50) 0003 Hold (0-2) Hold

Tandem Exchange Entry 1-50

0=Route (default)
1=Route List
2=local PBX

FF6
TRS/ARS

Notes:

The Route or Route List number is assigned in the next address.

Related Programming:

Tandem Exchange Table: Route Number (pg. 6-49) FF6 2 08 (01-50) 0004 Hold (1-200/100) Hold

Tandem Exchange Table: Route Number

0004 :0
T01 Route #

(all CPCs) - Version 2.0 or higher

Assign a route to the Tandem Exchange Number, depending on the setting in the previous address.

FF6 2 08 (01-50) 0004 Hold (1-200/100) Hold

Tandem Exchange Entry 1-50

Route 1-200 or
Route List 1-100

default: 0

Notes:

Related Programming:

Tandem Exchange Table: Route Type (pg. 6-48) FF6 2 08 (01-50) 0003 Hold (0-2) Hold

FF6
TRS/ARS

7. Applications (FF7)

Use the FF7 programming addresses in this chapter to set parameters for the following optional applications of the ICX:

FF7 0: Built-In Voice Mail
FF7 1: Built-In ACD
FF7 2: API

This chapter covers the following FF7 addresses:

FF7
Applications

FF7 0: Built-In Voice Mail

*NOTE: See **Section 510: Built-In Voice Mail Reference Manual** for complete instructions on installing, programming, and using this ICX option.*

VM Unit Number

BSS-00 :0
Built-In VM #

(all CPCs) - Version 2.0 or higher

Identify the CCU in which each Built-In Voice Mail Unit is installed.

FF7 0 (BSS) 00 Hold (0-4) Hold

BSS: VSSC Card Position--
B=CCU 1-6
SS=Free Slot 11 (for CAB-96)
or 05 (for CAB-40)

0=none (default)
1=Built-In VM Unit #1
2=Built-In VM Unit #2
3=Built-In VM Unit #3
4=Built-In VM Unit #4

Notes:

- This setting will be used when programming an FF-key for Voice Mail Access. When the end-user presses the FF-key, the system will dial this number to reach the VM Unit.
- A maximum of 1 VM Unit can be installed per CCU. A maximum of 4 VM Units can be installed per phone system.
- Each VM Unit is distinct and separate from the other VM Units, with separate directories, separate pilot numbers, etc. A phone user cannot simultaneously access more than one VM Unit at a time, nor can a mailbox recording be forwarded or a call transferred from one VM Unit to another.

Related Programming:

FF-Key Feature Assignment (Digital Keyphones, SLTs, EM/24s) (pg. 4-7) FF4 0 BSSC 0 (01-32) Hold FL/R (Code) Hold
Free Slot Assignment (pg. 0-6) 01 (1-6) (01-12) Hold (1-99) Hold
Card Type Verification (pg. 8-23) FF8 0 04 1 BSS 00 Hold [01-99 displays]

VPU Port Extension Numbers

BSS-01 : VM Virtual #

(all CPCs) - Version 2.0 or higher

Assign extension numbers to the VPU Ports. These extension numbers will serve as Voice Mail access numbers.

FF7 0 (BSS) 01 (01-16) 00 Hold (0-9999) Hold

BSS: VSSC Card Position--
B=CCU 1-6
SS=Free Slot 11 (for CAB-96)
or 05 (for CAB-40)

VPU Port No. 01-16

Extension No. (1-4 digits)

default: (none)

NOTE: The digit length must match the "Maximum/ Minimum Dialling at Intercom Dial Tone" setting, specified in the Dial Plan (see FF1 2). Also, the VPU Port Extension No. must be a "phantom" number; it cannot also be assigned to an existing extension port.

NOTE: Available range of VPU Ports is determined by the VPU card(s) installed:

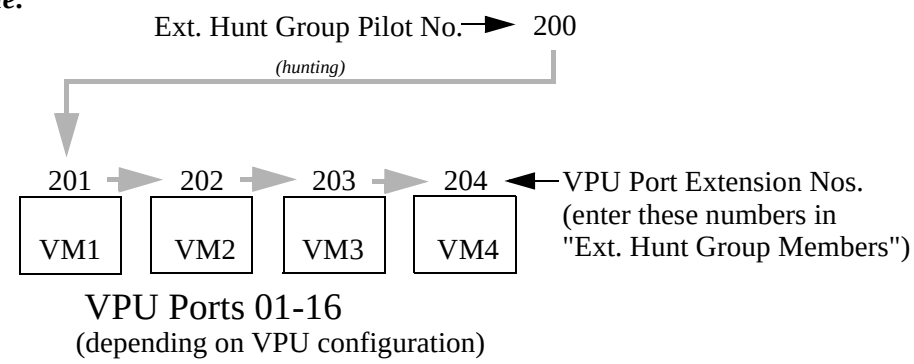
NO. of VPU CARDS -						
	VPU-4:	**1**	**2**		**1**	
	VPU-8:			**1**	**1**	**2**
VPU Port No. range:		01-04	01-08	01-08	01-12	01-16

Notes:

- A **VPU Port** is a channel, not a physical port.
- Extension COS #15 will automatically apply to VPU ports.
- For internal calls, Voice Mail has its own built-in hunting. However, external calls require Extension Hunt Group assignments.

FF7 Applications

For Example:



Related Programming:

Extension HG: Pilot Number (pg. 5-14) FF5 1 (01-72) 02 Hold (0-9999) Hold
Extension HG: Members (pg. 5-15) FF5 1 (01-72) (03-22) Hold FL/R (0-9999) Hold
FF1 0 03: Extension COS Definitions (pg. 1-35)
Maximum/Minimum Dialling at Intercom Dial Tone (pg. 1-167) FF1 2 01 (0001-0024) Hold (1-4) Hold

VPU Port Tenant Group Assignment

01-01 :1
VM Tenant Group

(all CPCs) - Version 2.0 or higher

Assign a Tenant Group to each VPU Port (if required). This Tenant Group assignment will apply during outbound dialling.

FF7 0 (BSS) 01 (01-16) 01 Hold (1-72) Hold

BSS: VSSC Card Position--
B=CCU 1-6
SS=Free Slot 11 (for CAB-96)
or 05 (for CAB-40)

VPU Port No. 01-16

Tenant Group No. 1-72
default: 1

NOTE: Available range of VPU Ports is determined by the VPU card(s) installed:

NO. of VPU CARDS -						
	VPU-4:	**1**	**2**		**1**	
	VPU-8:			**1**	**1**	**2**
VPU Port No. range:		01-04	01-08	01-08	01-12	01-16

NOTE: Available range of Tenant Groups is determined by the CPC installed, and the number of CCUs specified in programming (see **0: System Configuration**).

CPC INSTALLED		NO. OF CCUS SPECIFIED IN PROGRAMMING					
(shaded cells not available with this CPC)	**CPC-96:**	**1**	**2**	**3**	**4**	**5**	**6**
	CPC-288:	**1**	**2**	**3**	**4**	**5**	**6**
	CPC-576:	**1**	**2**	**3**	**4**	**5**	**6**
Tenant Group No. range:		12	24	36	48	60	72

FF7 Applications

Notes:

This **Tenant Group** assignment can be used for outside notification (for example, Voice Mail automatically calling your pager after receiving a message in your mailbox).

Related Programming:

VPU Port TRS Class Assignment (Day/Night)

01-02* :1
VM TRS Class

(all CPCs) - Version 2.0 or higher

Assign a TRS/Call Barring Class (if required) to each VPU Port.

FF7 0 (BSS) 01 (01-16) 02 (0 and 1) Hold (1-50) Hold

BSS: VSSC Card Position--
B=CCU 1-6
SS=Free Slot 11 (for CAB-96)
or 05 (for CAB-40)

VPU Port No. 01-16

0=Day 1&2 modes
1=Night mode

TRS Class 1-50

default: 1

NOTE: Available range of VPU Ports is determined by the VPU card(s) installed:

NO. of VPU CARDS -	VPU-4:	1	2		1	
	VPU-8:			1	1	2
VPU Port No. range:		01-04	01-08	01-08	01-12	01-16

Notes:

This **TRS Class** assignment can be used for restricting outside notification (for example, whether Voice Mail can automatically call your pager after receiving a message in your mailbox).

Related Programming:

FF7 Applications

VPU Port Digital Pad Class Assignment

01-03 :6
VM DPAD Class

(all CPCs) - Version 2.0 or higher

Assign an Extension Digital Pad Class to each VPU Port.

FF7 0 (BSS) 01 (01-16) 03 Hold (1-8) Hold

BSS: VSSC Card Position--
B=CCU 1-6
SS=Free Slot 11 (for CAB-96)
or 05 (for CAB-40)

VPU Port No. 01-16

Extension Digital Pad Class No. 1-8

default: 6

NOTE: Available range of VPU Ports is determined by the VPU card(s) installed:

NO. of VPU CARDS -						
	VPU-4:	**1**	**2**		**1**	
	VPU-8:			**1**	**1**	**2**
VPU Port No. range:		01-04	01-08	01-08	01-12	01-16

Notes:

The default "6" setting in this address (Pad Class 6) is optimal in most systems for hearing recorded messages.

Related Programming:

Digital Pad Settings for Extension Pad Class (pg. 1-193) FF1 8 01 (0001-0240) Hold (0-31) Hold

Built-In VM: Service Range Assignment

01-0000 :0
PTN1 VM S-CAB

(all CPCs) - Version 2.0 or higher

Assign up to 4 ranges of extensions that will get Voice Mail service.

FF7 0 (BSS) 02 01 (0001-0016) Hold (0-6 or 00-12) Hold

BSS: VSSC Card Position--
B=CCU 1-6
SS=Free Slot 11 (for CAB-96)
or 05 (for CAB-40)

First/Last Free Slot Position in Range (up to 4 ranges):

CCU 1-6 or Free Slot 01-12
default: 0/00 (none)

First/Last Free-Slot Card Positions	FIRST CARD POSITION		LAST CARD POSITION	
	CCU (1-6)	Free Slot (01-12)	CCU (1-6)	Free Slot (01-12)
RANGE #1	0001:	0002:	0003:	0004:
RANGE #2	0005:	0006:	0007:	0008:
RANGE #3	0009:	0010:	0011:	0012:
RANGE #4	0013:	0014:	0015:	0016:

NOTE #1: The installed cards within the above RANGES cannot include any type of card other than DEC or AEC Extension Cards.

NOTE #2: The total number of extensions included on the Cards in RANGES #1-#4 must not exceed 248.

NOTE #3: If there is only one Extension Card, enter it twice (as both the FIRST position and LAST position) in the RANGE.

Notes:

For more information, see *Section 510: Built-In Voice Mail with 2-Way Call Recording.*

FF7 Applications

Related Programming:

Free Slot Assignment (pg. 0-6) 01 (1-6) (01-12) Hold (1-99) Hold
Card Type Verification (pg. 8-23) FF8 0 04 1 BSS 00 Hold [01-99 displays]

Built-In VM: Detail Settings

BSS-03 :
VM Detail Set

(all CPCs) - Version 2.0 or higher

This is the gateway for entering detailled settings for Built-In Voice Mail.

FF7 0 (BSS) 03 Hold CONF...

BSS: VSSC Card Position--
B=CCU 1-6
SS=Free Slot 11 (for CAB-96)
or 05 (for CAB-40)

Notes:

See *Section 510: Built-In Voice Mail with 2-Way Call Recording* for the addresses contained within this portion of programming.

Related Programming:

FF7 1: Built-In ACD

NOTE: "ACD" means "Automated Call Distributor." See ***Section 520: Built-In ACD Reference*** *for complete instructions on installing, programming, and using this ICX option.*

ACD Unit Number

BSS-00 : Built-In ACD #

(all CPCs) - Version 2.0 or higher

Assign a number to each Built-In ACD Unit installed.

FF7 1 (BSS) 00 Hold (0-2) Hold

BSS: ACD Card Position--
B=CCU 1-6
SS=Free Slot 11 (for CAB-96)
or 05 (for CAB-40)

0=none (default)
1=Built-In ACD Unit #1
2=Built-In ACD Unit #2

Notes:

- A maximum of 1 ACD Unit can be installed per CCU.
- A maximum of 2 ACD Units can be installed per phone system (2 ACD cards and 2 VPU cards).

Related Programming:

Free Slot Assignment (pg. 0-6) 01 (1-6) (01-12) Hold (1-99) Hold
Card Type Verification (pg. 8-23) FF8 0 04 1 BSS 00 Hold [01-99 displays]

FF7 Applications

ACD Port Extension Numbers

BSS-01 : ACD Virtual #

(all CPCs) - Version 2.0 or higher

Assign the extension number(s) that can be dialled to reach Built-In ACD. There are 24 unique extension number assignments needed here: 4 for the VPU ports, and 20 for the ACD ports.

FF7 1 (BSS) 01 (01-24) 00 Hold (0-9999) Hold

BSS: ACD Card Position--
B=CCU 1-6
SS=Free Slot 11 (for CAB-96)
or 05 (for CAB-40)

ACD Port No.
(max. 24 channels)

Extension No. assignment (1-4 digits)

default: (none)

NOTE: The digit length must match the "Maximum/ Minimum Dialling at Intercom Dial Tone" setting, specified in the Dial Plan (see FF1 2). Also, the VPU Port Extension No. must be a "phantom" number; it cannot also be assigned to an existing extension port.

Notes:

Related Programming:

Maximum/Minimum Dialling at Intercom Dial Tone (pg. 1-167) FF1 2 01 (0001-0024) Hold (1-4) Hold
Extension Number Assignment (pg. 3-4) FF3 0 BSSC 02 Hold (0-9999) Hold

FF7 Applications

ACD Port Tenant Group Assignment

01-01 :1
ACD Tenant Group

(all CPCs) - Version 2.0 or higher

Assign each ACD port to a Tenant Group, for incoming call functions.

FF7 1 (BSS) 01 (01-24) 01 Hold (1-72) Hold

BSS: ACD Card Position--
B=CCU 1-6
SS=Free Slot 11 (for CAB-96)
or 05 (for CAB-40)

ACD Port No.
(max. 24 channels)

Tenant Group No. 1-72

default: 1

NOTE: Available range of Tenant Groups is determined by the CPC installed, and the number of CCUs specified in programming (see **0: System Configuration**).

CPC INSTALLED		NO. OF CCUS SPECIFIED IN PROGRAMMING					
(shaded cells not available with this CPC)	CPC-96:	1	2	3	4	5	6
	CPC-288:	1	2	3	4	5	6
	CPC-576:	1	2	3	4	5	6
Tenant Group No. range:		12	24	36	48	60	72

Notes:

Related Programming:

MCO Inbound Exchange-Line Group Members (pg. 5-21) **FF5 3 (01-99) (001-576) Hold (1-576) Hold**

ACD Port TRS Class Assignment (Day/Night)

-020 :1
Day 1/2 TRS CLS

FF7 Applications

(all CPCs) - Version 2.0 or higher

Assign a TRS/Call Barring Class to each ACD port, for incoming call functions.

FF7 1 (BSS) 01 (01-24) 02 (0 and 1) Hold (1-50) Hold

BSS: ACD Card Position--
B=CCU 1-6
SS=Free Slot 11 (for CAB-96)
or 05 (for CAB-40)

ACD Port No.
(max. 24 channels)

0=Day1/2 modes
1=Night mode

TRS Class No. 1-50

default: 1

Notes:

Related Programming:

FF6 0: TRS/ARS Common (pg. 6-5)
FF6 1: TRS Class Definitions (pg. 6-16)

ACD Port Digital Pad Class Assignment

01-03 :6
ACD DPAD Class

(all CPCs) - Version 2.0 or higher

Assign an Extension Digital Pad Class to each Built-In ACD port.

FF7 1 (BSS) 01 (01-24) 03 Hold (1-8) Hold

BSS: ACD Card Position--
B=CCU 1-6
SS=Free Slot 11 (for CAB-96)
or 05 (for CAB-40)

ACD Port No.
(max. 24 channels)

Extension Digital Class No. 1-8

default: 6

Notes:

The default "6" setting in this address (Pad Class 6) is optimal in most systems for hearing recorded messages.

Related Programming:

Digital Pad Settings for Extension Pad Class (pg. 1-193) **FF1 8 01 (0001-0240) Hold (0-31) Hold**

FF7 Applications

Built-In ACD: Service Range Assignment

01-0001 :0
PTN1 ACD S-CAB

(all CPCs) - Version 2.0 or higher

Assign up to 4 ranges of extensions that will have Built-In ACD service.

FF7 1 (BSS) 02 01 (0001-0016) Hold (0-6 or 0-12) Hold

BSS: ACD Card Position--
B=CCU 1-6
SS=Free Slot 11 (for CAB-96)
or 05 (for CAB-40)

First/Last Free Slot Position in Range (up to 4 ranges):

CCU 1-6 or Free Slot 01-12
default: 0/00 (none)

First/Last Free-Slot Card Positions	FIRST CARD POSITION		LAST CARD POSITION	
	CCU (1-6)	Free Slot (01-12)	CCU (1-6)	Free Slot (01-12)
RANGE #1	0001:	0002:	0003:	0004:
RANGE #2	0005:	0006:	0007:	0008:
RANGE #3	0009:	0010:	0011:	0012:
RANGE #4	0013:	0014:	0015:	0016:

NOTE #1: The installed cards within the above RANGES cannot include any type of card other than DEC or AEC Extension Cards.

NOTE #2: If there is only one Extension Card, enter it twice (as both the FIRST position and LAST position) in the RANGE.

Notes:

For more information, see *Section 520: Built-In ACD Reference.*

FF7 Applications

Related Programming:

Free Slot Assignment (pg. 0-6) 01 (1-6) (01-12) Hold (1-99) Hold
Card Type Verification (pg. 8-23) FF8 0 04 1 BSS 00 Hold [01-99 displays]

Built-In ACD: Detail Setting

BSS-03 : ACD Detail Set

(all CPCs) - Version 2.0 or higher

This is the gateway for entering more detail settings for Built-In ACD.

FF7 1 (BSS) 03 Hold CONF...

BSS: ACD Card Position--
B=CCU 1-6
SS=Free Slot 11 (for CAB-96)
or 05 (for CAB-40)

Notes:

See *Section 520: Built-In ACD Reference* for the addresses contained within this portion of programming.

Related Programming:

FF7 Applications

FF7 2: API

NOTE: "API" means Application Processor Interface. The API card provides an interface path between the phone system's information BUS and an external, PC-based application such as 3rd-party (integrated) Voice Mail, Enhanced ACD, etc.

An RS232C port (19,200 bps maximum) located on the API card provides the external interface connection.

*See "General Notes" in **System Configuration** (pg. 0-2) for more information about using API with 3rd-party Voice Mail.*

API Unit Number

BSS-00 : API Number

(all CPCs) - Version 2.0 or higher

Assign a number to each API unit installed.

FF7 2 (BSS) 00 Hold (0-6) Hold

BSS: API Card Position--
B=CCU 1-6
SS=Free Slot 01-11

0=none (default)
1=API Unit #1
2=API Unit #2
...
6=API Unit #6

Notes:

FF7 Applications

One API card is available for each CCU. An AEC or DEC Extension Card should be installed in the slot to the right of the API card, to provide up to 8 voice ports.

Related Programming:

Free Slot Assignment (pg. 0-6) 01 (1-6) (01-12) Hold (1-99) Hold
Card Type Verification (pg. 8-23) FF8 0 04 1 BSS 00 Hold [01-99 displays]

API Port Extension Numbers

BSS-01 : API Virtual #

(all CPCs) - Version 2.0 or higher

Assign the extension number that can be dialled to reach the API port.

FF7 2 (BSS) 01 (01-08) 00 Hold (0-9999) Hold

BSS: API Card Position--
B=CCU 1-6
SS=Free Slot 01-11

API Port No.
(max. 8 channels)

Extension No. assignment (1-4 digits)

default: (none)

NOTE: The digit length must match the "Maximum/ Minimum Dialling at Intercom Dial Tone" setting, specified in the Dial Plan (see FF1 2). Also, the API Port Extension No. must be a "phantom" number; it cannot also be assigned to an existing extension port.

Notes:

For example, when you select Card Type 80 (2 API ports) in Free Slot Assignment, you can only enter API Port No.1 or No. 2 in this address.

Related Programming:

Free Slot Assignment (pg. 0-6) 01 (1-6) (01-12) Hold (1-99) Hold
Maximum/Minimum Dialling at Intercom Dial Tone (pg. 1-167) FF1 2 01 (0001-0024) Hold (1-4) Hold
Extension Number Assignment (pg. 3-4) FF3 0 BSSC 02 Hold (0-9999) Hold

API Port Tenant Group Assignment

01-01 :1
API Tenant Group

(all CPCs) - Version 2.0 or higher

Assign each API port to a Tenant Group, for the outgoing function.

FF7 2 (BSS) 01 (01-08) 01 Hold (1-72) Hold

BSS: API Card Position--
B=CCU 1-6
SS=Free Slot 01-11

API Port No.
(max. 8 channels)

Tenant Group No. 1-72

default: 1

NOTE: Available range of Tenant Groups is determined by the CPC installed, and the number of CCUs specified in programming (see **0: System Configuration**).

CPC INSTALLED		NO. OF CCUS SPECIFIED IN PROGRAMMING					
(shaded cells not available with this CPC)	CPC-96:	1	2	3	4	5	6
	CPC-288:	1	2	3	4	5	6
	CPC-576:	1	2	3	4	5	6
Tenant Group No. range:		12	24	36	48	60	72

Notes:

Tenant Groups can be used for controlling MCO access and SSD block assignment.

Related Programming:

FF1 3: MCO Access in Tenant Groups (pg. 1-176)
FF1 0 15, 16, and 17: SSD Blocks (pg. 1-113)

FF7 Applications

API Port TRS Class Assignment (Day/Night)

01-02* :1
API TRS Class

(all CPCs) - Version 2.0 or higher

Assign a TRS Class of Service to each API port, for the outgoing function.

FF7 2 (BSS) 01 (01-08) 02 (0 and 1) Hold (1-50) Hold

BSS: API Card Position--
B=CCU 1-6
SS=Free Slot 01-11

API Port No.
(max. 8 channels)

0=Day 1&2 modes
1=Night mode

TRS Class No. 1-50

default: 1

Notes:

Related Programming:

FF6 0: TRS/ARS Common (pg. 6-5)
FF6 1: TRS Class Definitions (pg. 6-16)

API Port Digital Pad Class Assignment

01-03 :1
API DPAD Class

(all CPCs) - Version 2.0 or higher

Assign an Extension Digital Pad Class to each API port.

FF7 2 (BSS) 01 (01-08) 03 Hold (1-8) Hold

BSS: API Card Position--
B=CCU 1-6
SS=Free Slot 01-11

API Port No.
(max. 8 channels)

Extension Digital Pad Class No. 1-8

default: 3 for DEC
1 for AEC

Notes:

Related Programming:

Digital Pad Settings for Extension Pad Class (pg. 1-193) **FF1 8 01 (0001-0240) Hold (0-31) Hold**

API: Data Format via RS-232C

BSS- :6
API Data Format

(all CPCs) - Version 2.0 or higher

Set the data length, stop bits, and parity for the API RS-232C port.

FF7 2 (BSS) 02 01 0001 Hold (0-7) Hold

BSS: API Card Position--
B=CCU 1-6
SS=Free Slot 01-11

0=7 bits / Even parity / 2 stop bits
1=7 bits / Odd parity / 2 stop bits
2=7 bits / Even parity / 1 stop bit
3=7 bits / Odd parity / 1 stop bit
4=8 bits / No parity / 2 stop bits
5=8 bits / No parity / 1 stop bit
6=8 bits / Even parity / 1 stop bit (default)
7=8 bits / Odd parity / 1 stop bit

FF7 Applications

Notes:

Related Programming:

API: Baud Rate

BSS- :5
API Baud Rate

(all CPCs) - Version 2.0 or higher

Set baud rate (bits per second) for the API RS-232C port.

FF7 2 (BSS) 02 01 0002 Hold (0-6) Hold

BSS: API Card Position--
B=CCU 1-6
SS=Free Slot 01-11

0=300 bps
1=600 bps
2=1200 bps
3=2400 bps
4=4800 bps
5=9600 bps (default)
6=19200 bps

Notes:

Related Programming:

FF7
Applications

API: Service Range Assignment

:0
PTN1 API S-CAB

(all CPCs) - Version 2.0 or higher

Assign up to 4 ranges of extensions that will have API service.

FF7 2 (BSS) 02 02 (0001-0016) Hold (0-6 or 00-11) Hold

B11: API Card Position--
B=CCU 1-6
SS=Free Slot 01-11

First/Last Free Slot Position in Range (up to 4 ranges):

CCU 1-6 or Free Slot 01-11
default: 0/00 (none)

First/Last Free-Slot Card Positions	FIRST CARD POSITION		LAST CARD POSITION	
	CCU (1-6)	Free Slot (01-12)	CCU (1-6)	Free Slot (01-12)
RANGE #1	0001:	0002:	0003:	0004:
RANGE #2	0005:	0006:	0007:	0008:
RANGE #3	0009:	0010:	0011:	0012:
RANGE #4	0013:	0014:	0015:	0016:

NOTE #1: The installed cards within the above RANGES cannot include any type of card other than DEC or AEC Extension Cards.

NOTE #2: If there is only one Extension Card, enter it twice (as both the FIRST position and LAST position) in the RANGE.

Notes:

Related Programming:

Free Slot Assignment (pg. 0-6) 01 (1-6) (01-12) Hold (1-99) Hold

FF7 Applications

8. Maintenance (FF8)

Use the FF8 addresses in this chapter to perform ICX system maintenance settings:

FF8 0: Dealer Maintenance
FF8 1: User Maintenance

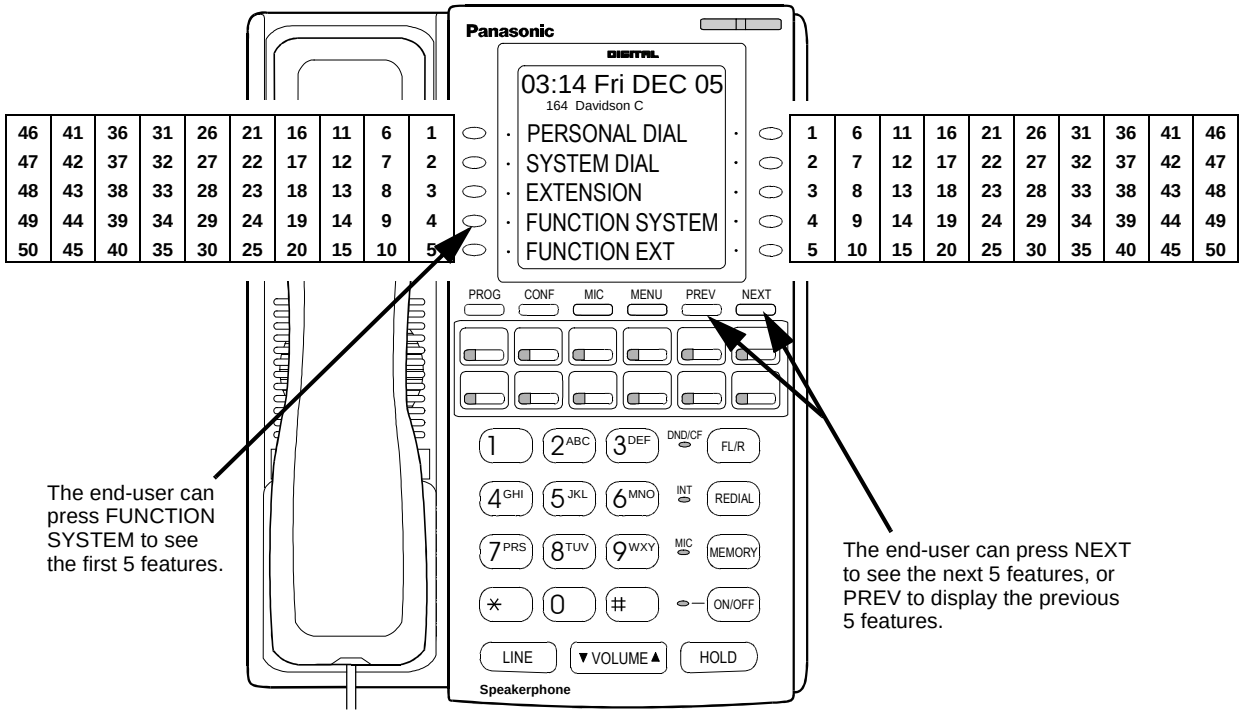
This chapter covers the following FF8 addresses:

FF8 0 05 2 BSSC 00 Hold (digits)	Signal Loss Alarm Counter	0000	8-26
FF8 0 05 2 BSSC 01 Hold (digits)	OOF Alarm Counter	0000	8-26
FF8 0 05 2 BSSC 02 Hold (digits)	Sync Loss Alarm Counter	0000	8-27
FF8 0 05 2 BSSC 03 Hold (digits)	Yellow Alarm Counter	0000	8-27
FF8 0 05 2 BSSC 04 Hold (digits)	AIS Alarm Counter	0000	8-28
FF8 0 05 2 BSSC 05 Hold (digits)	Slip Alarm Counter	0000	8-28
FF8 0 05 2 BSSC 06 Hold (digits)	CRC Alarm Counter	0000	8-29
FF8 0 05 2 BSSC 07 Hold (digits)	BPV Alarm Counter	0000	8-29
FF8 0 05 2 BSSC 08 Hold (digits)	Layer 1 Status Error Counter (ISDN)	00	8-30
FF8 0 05 2 BSSC 09 Hold (digits)	Layer 1 Receive Error Counter (ISDN)	000000	8-30
FF8 0 05 2 BSSC 10 Hold (digits)	Layer 1 Transmit Error Counter (ISDN)	000000	8-31
FF8 0 05 2 BSSC (11-90) Hold (digits)	TEI Layer 2 Error Counter (ISDN)	000000	8-31
FF8 0 05 3 BSS(C) Hold (0 or 1) Hold	T1 Loopback 1 Diagnostics	0 (Stop)	8-34
FF8 0 05 4 BSS(C) Hold 1 Hold	T1 Loopback 2 Diagnostics	1 (Start)	8-34
FF8 0 06: ISDN Channel Control			**8-35**
FF8 0 06 BSSC (0-3) Hold CONF... (0 or 1) Hold	ISDN Channel Control	0 (Lockout)	8-35
FF8 0 07: Bus Monitor (for factory use)			**8-37**
FF8 0 07 0 00 Hold (0 or 1) Hold	Bus Monitor Save Control	0 (stop/no save)	8-37
FF8 0 07 0 (01-15) Hold (code) Hold	Trigger Codes	See pg. 8-38	8-37
FF8 0 08: Table Dump			**8-39**
FF8 0 08 Hold Hold (vvvv-dddd-iiii) Hold	Table Dump	--	8-39
FF8 0 09: Memory Dump			**8-40**
FF8 0 09 Hold Hold (aaaaaaaa) Hold	Memory Dump	--	8-40
FF8 0 10: DDI/CLI Names			**8-41**
FF8 0 10 Hold Hold (001-576) Hold (up to 10 char.) Hold	DDI/CLI Names (“A” Side only)	--	8-41
FF8 1: User Maintenance			**8-42**
FF8 1 00: System Clock			**8-42**
FF8 1 00 0 Hold (YYMMDD) Hold	System Date	970101 (after initialization)	8-42
FF8 1 00 1 Hold (HHMM) Hold	System Time	00:00 (after initialization)	8-42
FF8 1 00 2 Hold (1-7) Hold	System Day of Week	3 (Wed.)	8-43
FF8 1 01: Personal Speed Dial (PSD)			**8-44**
FF8 1 01 Hold 0 Hold Hold (0-9999) Hold (PSD) Hold FL/R (up to 24 char.) Hold	PSD Numbers	--	8-44
FF8 1 01 Hold 1 Hold Hold (0-9999) Hold (80-99) Hold FL/R (up to 7 char.) Hold	PSD Names	--	8-45
FF8 1 02: System Speed Dial (SSD)			**8-46**
FF8 1 02 Hold 0 Hold Hold (00/0-79/9) Hold FL/R (up to 24 char.) Hold	SSD Numbers	--	8-46
FF8 1 02 Hold 1 Hold Hold (00/0-79/9) Hold FL/R (up to 16 char.) Hold	SSD Names	--	8-47
FF8 1 02 Hold 2 Hold Hold (1 or 2) Hold FL/R (up to 4 char.) Hold	SSD Index	--	8-48

FF8 0: Dealer Maintenance

FF8 0 00: Large-LCD FUNCTION SYSTEM Assignments

Figure 8-1: Soft Key Numbering for Large-LCD FUNCTION SYSTEM Features (FF8 0 00)



FF8 Maintenance

Table 8-1. List of Available Feature Codes

NOTE: All features can be programmed on FF-Keys, and most (but not all) can also be programmed on Soft Keys (the "Soft Key" column will be shaded for exceptions). Also, some features cannot be assigned a Flexible Code for end-users, and can be set only in Programming Mode (the "End-User" column will be shaded for these exceptions).

Feature	Description	Fixed Feature Code + (additional digits to program into key)	End-User	Soft Key
Public Exchange Line Key		# + (Exch.Line 1-576)		
MCO Exchange Line Key	For incoming **and** outgoing calls. MCO No. 1 = "9" access code MCO No. 2 = "81" access code MCO No. 3 = "82" access code MCO No. 4 = "83" access code MCO No. 5 = "84" access code	1 + (MCO 1-5) + (MCO-Incoming Group 00-99)		
Virtual Port Key		∗9 + (VirtualPort 001-576)		
DSS/BLF - Outgoing only	Call ext. / View status only.	9 + (Extension 0-9999)	End-User	Soft Key
DSS/BLF - Immediate Ring	Call ext. / View status / Also rings immediately for incoming call (can answer).	81 + (Extension 0-9999)	End-User	
DSS/BLF - Delayed Ring	Call ext. / View status / Also delay-rings incoming call (can answer).	82 + (Extension 0-9999)	End-User	
DSS/BLF - Flash/No-Ring	Call ext. / View status / Also flashes for incoming call (can answer).	83 + (Extension 0-9999)	End-User	
Built-In VM Unit #1: Mailbox Access	Access mailbox options.	61 + (Mailbox No. 00-9999)		
Built-In VM Unit #2: Mailbox Access	Access mailbox options.	62 + (Mailbox No. 00-9999)		
Built-In VM Unit #3: Mailbox Access	Access mailbox options.	63 + (Mailbox No. 00-9999)		
Built-In VM Unit #4: Mailbox Access	Access mailbox options.	64 + (Mailbox No. 00-9999)		
Built-In VM Unit #1: Message Broadcast	Copy a recording to other (pre-programmed) mailboxes.	61 + (Broadcast Code 00-9999)		
Built-In VM Unit #2: Message Broadcast	Copy a recording to other (pre-programmed) mailboxes.	62 + (Broadcast Code 00-9999)		
Built-In VM Unit #3: Message Broadcast	Copy a recording to other (pre-programmed) mailboxes.	63 + (Broadcast Code 00-9999)		
Built-In VM Unit #4: Message Broadcast	Copy a recording to other (pre-programmed) mailboxes.	64 + (Broadcast Code 00-9999)		
Built-In VM: Retrieve Messages	Listen to messages in mailbox.	5 + (Mailbox No. 00-9999)		
Built-In VM: Start/Restart	2-Way Call Recording	∗#50		
Built-In VM: Stop	2-Way Call Recording	∗#51		
Built-In VM: Re-Record	(over the same call) 2-Way Call Recording	∗#52		
Built-In VM: Pause	2-Way Call Recording	∗#53		
Built-In VM: Stop/End	2-Way Call Recording	∗#54		

Feature	Description	Fixed Feature Code + (additional digits to program into key)	End-User	Soft Key
Built-In VM: Add Comment	(to end of recording) 2-Way Call Recording	∗#55		
Built-In VM: Clear	(delete recording) 2-Way Call Recording	∗#56		
Built-In VM: Notify	(call outside pager or phone) 2-Way Call Recording	∗#57		
Built-In VM: Copy	(a message into another mailbox) 2-Way Call Recording	∗#58		
Built-In VM: Dial Pulse/ DTMF Switch	2-Way Call Recording	∗#59		
ACD-1 Log-In/Out Button		∗#80		
ACD-1 Work Unit		∗#81 + (Work Unit 00-19)		
ACD-1 Unavailable Button		∗#82		
ACD-2 Log-In/Out Button		∗#85		
ACD-2 Work Unit		∗#86 + (Work Unit 00-19)		
ACD-2 Unavailable Button		∗#87		
Speed-Dial Send Button		∗01 + (SSD 000-799 or PSD 80-99)	End-User	Soft Key
Direct Exch.Line Access		∗02	End-User	Soft Key
Verified ID Code Send		∗03	End-User	Soft Key
Floating Hold Answer		∗04	End-User	Soft Key
Voice Mail Message-Waiting: Send		∗05	End-User	Soft Key
Voice Mail Message-Waiting: Cancel		∗06	End-User	Soft Key
Message-Waiting: Cancel		∗07	End-User	Soft Key
Message-Waiting: Callback		∗08	End-User	Soft Key
Call Forward (All): Set		70 + (Extension 0-9999)	End-User	Soft Key
Call Forward (All): Clear		∗09	End-User	Soft Key
Call Forward (All): Set via Attendant		∗10	End-User	Soft Key
Call Forward (All): Clear via Attendant		∗11	End-User	Soft Key
Call Forward (No Answer): Set		71 + (Extension 0-9999)	End-User	Soft Key
Call Forward (No Answer): Clear		∗12	End-User	Soft Key
Call Forward (No Answer): Set via Attendant		∗13	End-User	Soft Key
Call Forward (No Answer): Clear via Attendant		∗14	End-User	Soft Key
Call Forward (Busy): Set		72 + (Extension 0-9999)	End-User	Soft Key
Call Forward (Busy): Clear		∗15	End-User	Soft Key
Call Forward (Busy): Set via Attendant		∗16	End-User	Soft Key

Feature	Description	Fixed Feature Code + (additional digits to program into key)	End-User	Soft Key
Call Forward (Busy): Clear via Attendant		∗17	End-User	Soft Key
DND Set/Clear		∗18	End-User	Soft Key
DND Set from Attendant		∗19	End-User	Soft Key
DND Clear from Attendant		∗20	End-User	Soft Key
DND & Call Forward Clear		∗21	End-User	Soft Key
Alarm Set		∗22	End-User	Soft Key
Alarm Clear		∗23	End-User	Soft Key
BGM On/Off		∗24	End-User	Soft Key
Day 1/Night Toggle		∗25	End-User	Soft Key
Day 2		∗26	End-User	Soft Key
Night 1		∗27	End-User	Soft Key
Night 2 (for Built-In VM)		∗28	End-User	Soft Key
Paging		∗29 + (Page Group 0-9)	End-User	Soft Key
Meet-Me Answer		∗30	End-User	Soft Key
Call Pickup Group/ All Calls		∗31	End-User	Soft Key
Call Pickup Group/ Public-Exch. Calls Only		∗32	End-User	Soft Key
Call Pickup Group/ Specified	Pick up a call in another Call Pickup Group.	∗33 + (Call Pickup Group 1-99)	End-User	Soft Key
Direct Call Pickup		73 + (Extension 0-9999)	End-User	Soft Key
Public Exchange Line Call Pickup		∗34	End-User	Soft Key
Headset Mode On/Off		∗35	End-User	Soft Key
3-party Conference Key		∗36	End-User	Soft Key
Transfer Key		∗37	End-User	Soft Key
Program Key		∗38	End-User	Soft Key
Recall - Flash Key		∗39		Soft Key
PSD Name Assignment		∗40	End-User	Soft Key
Ext. Directory Name Assignment		∗41	End-User	Soft Key
Speed-Dial Directory Name Assignment		∗42	End-User	Soft Key
MCO-1 Access	For outgoing calls (default: 9)	∗43	End-User	Soft Key
MCO-2 Access	For outgoing calls (default: 81)	∗44	End-User	Soft Key
MCO-3 Access	For outgoing calls (default: 82)	∗45	End-User	Soft Key
MCO-4 Access	For outgoing calls (default: 83)	∗46	End-User	Soft Key
MCO-5 Access	For outgoing calls (default: 84)	∗47	End-User	Soft Key
NOTE: No more than 5 MCO keys can be assigned per phone.				
Mic/Mute (Talkback Key)		∗48		Soft Key
Callback at Busy Tone		∗49	End-User	Soft Key
Camp-On at Busy Tone		∗50	End-User	Soft Key

Feature	Description	Fixed Feature Code + (additional digits to program into key)	End-User	Soft Key
Message-Waiting Set at Busy Tone		∗51	End-User	Soft Key
Message-Waiting Priority Set at Busy Tone		∗52	End-User	Soft Key
Busy Override Send		∗53	End-User	Soft Key
Switch to Voice Call at Ringback Tone		∗54	End-User	Soft Key
Message-Waiting Set at Ringback Tone		∗55	End-User	Soft Key
Message-Waiting Priority Set at Ringback Tone		∗56	End-User	Soft Key
Account Code Entry		∗57	End-User	Soft Key
8-Party Conference		∗58	End-User	Soft Key
Extension Port Number Confirm		∗59	End-User	Soft Key
Exchange-Line Port No. Confirm		∗60	End-User	Soft Key
Voice Mail Transfer Key #1		74 + (VM Voice Port Ext.No. 0-9999)	End-User	Soft Key
Voice Mail Transfer Key #2		75 + (VM Pilot Ext.No. 0-9999)	End-User	Soft Key
Variable Mode		∗61	End-User	Soft Key
Call Logging Confirmation Mode		∗62	End-User	Soft Key
Station Call Park Hold/ Answer		∗63	End-User	Soft Key
Station Call Park Hold		∗64	End-User	Soft Key
Station Call Park Answer (own extension)		∗65	End-User	Soft Key
Station Call Park Answer (other extensions)		∗66	End-User	Soft Key
Station Call Park Transfer		∗67	End-User	Soft Key
Release Key	for headset on regular phone	∗68		
Answer Key	for headset on regular phone	∗69		
OHVA		∗70	End-User	Soft Key
Split Key	OHVA/Silent Transfer/Talkback	∗71	End-User	
Walking TRS		∗72	End-User	
ANY Key (all CPCs-Version 1.3 or higher)	Change phone status to “Monitor ON”; put current Public-Exch.Line call on hold. *NOTE: The “ANY” key LED won’t light.*	∗8 + (up to 4 digits, including 0-9, # and ∗)	End-User	Soft Key

FF8
Maintenance

Large-LCD FUNCTION SYSTEM Assignment at Idle/Dial Tone

001 :*24
Idle/DT Function

(all CPCs) - Version 2.0 or higher

Assign up to 50 soft key functions (up to 10 menu screens) for the FUNCTION SYSTEM option, which appears on soft key #4 while the Large-LCD phone is idle (on-hook/no activity) or receiving dial tone.

FF8 0 00 0 (01-50) Hold (Code) Hold

Soft Key #1 thru #50 — *(see figure on pg. 8-4 for soft key numbering)*

Fixed Feature Code — **defaults: [see Table 8-2 below]**

Notes:

This address will affect all Large-LCD phones in the system. To change the default setting for a soft key, enter another Fixed Feature Code for it in this address.

When the Large-LCD phone user selects the FUNCTION SYSTEM option (soft key #4) during idle or dial tone, the functions you assign to soft keys #1 thru #5 in this address, will appear on the LCD. When the phone user presses the NEXT key, the features assigned to soft keys #6 thru #10 will appear (and so on, up to soft keys #46 thru #50, maximum 10 screens).

Related Programming:

Table 8-2. "FUNCTION SYSTEM" Default Assignments at Idle/Dial Tone (FF8 0 00)

Soft Key No.	Feature Default for Soft Key	Fixed Feature Code + additional digits to program into key
1	BGM On/Off	∗24
2	Mic/Mute (Talkback Key)	∗48
3	DND Set/Clear	∗18
4	Call Forward (All): Set	70 + (Extension 0-9999)
5	Call Forward (All): Clear	∗09
6	Call Forward (Busy): Set	72 + (Extension 0-9999)
7	Call Forward (Busy): Clear	∗15
8	Call Forward (No Answer): Set	71 + (Extension 0-9999)
9	Call Forward (No Answer): Clear	∗12
10	DND & Call Forward Clear	∗21
11	Alarm Set	∗22
12	Alarm Clear	∗23
13	Message-Waiting: Callback	∗08
14	Message-Waiting: Cancel	∗07
15	Headset Mode On/Off	∗35
16	Meet Me Answer	∗30

Soft Key No.	Feature Default for Soft Key	Fixed Feature Code + additional digits to program into key
17	System Park Answer (Floating Hold Answer)	∗04
18	Call Pickup Group-All Calls	∗31
19	Call Pickup Group-Public Exchange Calls Only	∗32
20	Call Pickup Group-Specified (pick up a call in another Pickup Group)	∗33 + (Call Pickup Group 1-99)
21	Extension Call Pickup	73 + (Extension 0-9999)
22	Exchange Line Call Pickup	∗34
23	PSD Name Assignment	∗40
24	Account Code	∗57
25	Direct Exchange Line Access	∗02
26	Station Call Park Hold	∗64
27	Station Call Park Answer (own)	∗65
28	Station Call Park Answer (others)	∗66
29	Station Call Park Transfer	∗67
30	Walking TRS	∗72
31	8-party Conference	∗58
32	Call Logging Confirmation	∗62
33	Extension Port Confirm	∗59
34	Exchange Line Port Confirm	∗60
35	Extension Name Assignment	∗41
36	Speed-Dial Directory Name Assignment	∗42
37	Day 1/Night Toggle	∗25
38	Day 2	∗26
39	Night 1	∗27
40	Night 2 (for 2-Way VM)	∗28
41	Voice Mail Message-Waiting: Send	∗05
42	Voice Mail Message-Waiting: Cancel	∗06
43	Call Forward (All): Set via Attendant	∗10
44	Call Forward (All): Clear via Attendant	∗11
45	Call Forward (Busy): Set via Attendant	∗16
46	Call Forward (Busy): Clear via Attendant	∗17
47	Call Forward (No Answer): Set via Attendant	∗13
48	Call Forward (No Answer): Clear via Attendant	∗14
49	DND Set from Attendant	∗19
50	DND Clear from Attendant	∗20

FF8
Maintenance

Large-LCD FUNCTION SYSTEM Assignment at Ringback Tone

101 :*37
RBT Function

(all CPCs) - Version 2.0 or higher

Assign up to 10 soft key functions (2 menu screens) for the FUNCTION SYSTEM option, which appears on soft key #4 while the Large-LCD phone is receiving ringback tone.

FF8 0 00 1 (01-10) Hold (Code) Hold

Soft Key #1 thru #10
(see Figure 8-1 for soft key numbering)

Fixed Feature Code
(see Table 8-1 for a complete list of Codes)

Ringback Defaults
Soft Key #1: Transfer (*37)
Soft Key #2: Voice Call (*54)
Soft Key #3: Message Wait Set (*55)
Soft Key #4: (no assignment)
Soft Key #5: (no assignment)
Soft Keys #6 thru #10: (no assignment)

Notes:

This address will affect all Large-LCD phones in the system. To change the default setting for a soft key, enter another Fixed Feature Code for it in this address.

When the Large-LCD phone user selects the FUNCTION SYSTEM option (soft key #4) during ringback tone, the functions you assign to soft keys #1 thru #5 in this address, will appear on the LCD. When the phone user presses the NEXT key, the features assigned to soft keys #6 thru #10 will appear.

Related Programming:

FF8 Maintenance

Large-LCD FUNCTION SYSTEM Assignment at Busy Tone

201 :*49
BT Function

(all CPCs) - Version 2.0 or higher

Assign up to 10 soft key functions (2 menu screens) for the FUNCTION SYSTEM option, which appears on soft key #4 while the Large-LCD phone is receiving busy tone.

FF8 0 00 2 (01-10) Hold (Code) Hold

Soft Key #1 thru #10
(see Figure 8-1 for soft key numbering)

Fixed Feature Code
(see Table 8-1 for a complete list of Codes)

Busy Tone Defaults
Soft Key #1: Callback (*49)
Soft Key #2: Camp-On (*50)
Soft Key #3: Message Wait Set (*51)
Soft Key #4: Busy Override (*53)
Soft Key #5: OHVA (*70)
Soft Key #6: Transfer (*37)
Soft Keys #7 thru #10: (no assignment)

Notes:

This address will affect all Large-LCD phones in the system. To change the default setting for a soft key, enter another Fixed Feature Code for it in this address.

When the Large-LCD phone user selects the FUNCTION SYSTEM option (soft key #4) during busy tone, the functions you assign to soft keys #1 thru #5 in this address, will appear on the LCD. When the phone user presses the NEXT key, the features assigned to soft keys #6 thru #10 will appear.

Related Programming:

FF8
Maintenance

Large-LCD FUNCTION SYSTEM Assignment during Talk

301 :*48
Talk Function

(all CPCs) - Version 2.0 or higher

Assign up to 10 soft key functions (2 menu screens) for the FUNCTION SYSTEM option, which appears on soft key #4 while the Large-LCD phone is in use (off-hook/talk path).

FF8 0 00 3 (01-10) Hold (Code) Hold

Soft Key #1 thru #10
(see Figure 8-1 for soft key numbering)

Fixed Feature Code
(see Table 8-1 for a complete list of Codes)

Talk Defaults
Soft Key #1: Transfer (*37)
Soft Key #2: 3-Party Conference (*36)
Soft Key #3: Recall/Flash (*39)
Soft Key #4: Acct.Code Entry (*57)
Soft Keys #5 thru #10: (no assignment)

Notes:

This address will affect all Large-LCD phones in the system. To change the default setting for a soft key, enter another Fixed Feature Code for it in this address.

When the Large-LCD phone user selects the FUNCTION SYSTEM option (soft key #4) during talk, the functions you assign to soft keys #1 thru #5 in this address, will appear on the LCD. When the phone user presses the NEXT key, the features assigned to soft keys #6 thru #10 will appear.

Related Programming:

FF8 0 01: Traffic Control

Traffic Control Start/Stop Memory

0001 :
Store Start/Stop

(all CPCs) - Version 2.0 or higher

Start/Stop the storing of Call Traffic data in system memory.

FF8 0 01 0 00 Hold CONF (0 or 1) Hold

0=Stop (Default)
1=Start

Notes:

When you restart the Traffic Control, previous data is gone.

Related Programming:

Traffic Control Timing Storage (pg. 8-15) **FF8 0 01 0 (01-48) Hold (0-16) Hold**

Traffic Control Start/Stop Print

0002 :
Not Used

(all CPCs) - Version 2.0 or higher

Start/Stop the printing of Call Traffic data to the RS-232C port.

FF8 0 01 0 00 Hold CONF Hold (0 or 1) Hold

0=Stop (Default)
1=Start

Notes:

FF8 Maintenance

Related Programming:

FF1 0 05: Serial Ports (pg. 1-94)
FF1 0 06: Serial Port Output Data (pg. 1-102)

Not Used

(all CPCs) - Version 2.0 or higher

(press Hold 2 times)
FF8 0 01 0 00 Hold CONF (Holdx2) → 0003 : Not Used

(press Hold 3 times)
FF8 0 01 0 00 Hold CONF (Holdx3) → 0004 : Not Used

(press Hold 4 times)
FF8 0 01 0 00 Hold CONF (Holdx4) → 0005 : Not Used

(press Hold 5 times)
FF8 0 01 0 00 Hold CONF (Holdx5) → 0006 : Not Used

Notes:

Related Programming:

Traffic Control Timing Storage

001 :0
00:00-00:29

(all CPCs) - Version 2.0 or higher

Assign a data area to each 30-minute interval of Call Traffic data during a 24-hour period. The traffic data currently stored in memory will be printed through the RS-232C port.

FF8 0 01 0 (01-48) Hold (0-16) Hold

(01-48): 30-Minute Intervals *(see table below)*

(0-16):
0=Not stored (default)
1=Data Area 1
2=Data Area 2
...
16=Data Area 16

Notes:

Related Programming:

Traffic Control Start/Stop Memory (pg. 8-14) **FF8 0 01 0 00 Hold CONF (0 or 1) Hold**

FF8 Maintenance

Table 8-3. Traffic Control Timing Storage (FF8 0 01 0)

Address No. (FF8 0 01 0 ...)	Value (in 30-minute intervals)	Data Area
01	00:00-00:29	0=not stored 1-16=Data Area 1-16
02	00:30-00:59	
03	01:00-01:29	
04	01:30-01:59	
05	02:00-02:29	
06	02:30-02:59	
07	03:00-03:29	
08	03:30-03:59	
09	04:00-04:29	
10	04:30-04:59	
11	05:00-05:29	
12	05:30-05:59	
13	06:00-06:29	
14	06:30-06:59	
15	07:00-07:29	
16	07:30-07:59	
17	08:00-08:29	
18	08:30-08:59	
19	09:00-09:29	
20	09:30-09:59	
21	10:00-10:29	
22	10:30-10:59	
23	11:00-11:29	
24	11:30-11:59	
25	12:00-12:29	
26	12:30-12:59	
27	13:00-13:29	
28	13:30-13:59	
29	14:00-14:29	
30	14:30-14:59	
31	15:00-15:29	
32	15:30-15:59	
33	16:00-16:29	
34	16:30-16:59	
35	17:00-17:29	
36	17:30-17:59	
37	18:00-18:29	
38	18:30-18:59	
39	19:00-19:29	
40	19:30-19:59	

FF8
Maintenance

Address No. (FF8 0 01 0 ...)	Value (in 30-minute intervals)	Data Area
41	20:00-20:29	0=not stored 1-16=Data Area 1-16
42	20:30-20:59	
43	21:00-21:29	
44	21:30-21:59	
45	22:00-22:29	
46	22:30-22:59	
47	23:00-23:29	
48	23:30-23:59	

Exchange Line Call Traffic (Outbound Calls)

1 : Outgoing

(all CPCs) - Version 2.0 or higher

Enable/Disable printing of outbound call traffic data.

FF8 0 01 1 Hold (0 or 1) Hold

0=Print.
1=Do not print.

Notes:

Related Programming:

FF8 Maintenance

Exchange Line Call Traffic (Inbound Calls)

2 : Incoming

(all CPCs) - Version 2.0 or higher

Enable/Disable printing of incoming exchange line calls.

FF8 0 01 2 Hold (0 or 1) Hold

0=Print.
1=Do not print.

Notes:

Related Programming:

Intercom Call Traffic

3 : Intercom

(all CPCs) - Version 2.0 or higher

Enable/Disable printing of intercom (extension-to-extension) calls.

FF8 0 01 3 Hold (0 or 1) Hold

0=Print.
1=Do not print.

Notes:

Related Programming:

FF8
Maintenance

FF8 0 02: Exchange Line Names

Exchange Line Name Assignment

_ A B C D E F 001

(all CPCs) - Version 2.0 or higher

Assign names to exchange lines. The name will display on the phone whenever the exchange line is used on that phone.

(clears current data)

FF8 0 02 Hold Hold (1-576) Hold FL/R (up to 10 char.) Hold

Exchange Line No. 1-576

Name (up to 10 char.)

default: (none)

See illustrations, next page for name assignment examples.

Notes:

To assign Exchange Line Names using a display phone:

- ❒ First, press FL/R to clear current data (if any).
- ❒ Then press the soft key that represents the group of letters you want to choose from.
- ❒ Then press one of the FF-keys on the bottom row (underneath the LCD), that is in the same position as the letter you want to choose.

Use the ∗ key to erase an entry. Use the # key to enter a space.

Press Hold when finished.

See illustrations, next page.

Related Programming:

Exchange-Line Number Assignment (pg. 2-7) for public exchange lines FF2 0 BSSC 00 Hold (0-576) Hold
Private-Line Number Assignment (pg. 2-38) for AC-15 private lines FF2 0 BSSC 00 Hold (0-576) Hold
Exchange-Line Number Assignment (1st Channel) (pg. 2-61) for ISDN exchange lines FF2 1 BSSC 01 Hold (0-576) Hold
Trunk Number Assignment (pg. 2-87) for T1-CO lines *(USA only)* FF2 2 BSSCC 01 Hold (0-576) Hold
Trunk Number Assignment (pg. 2-116) for T1-E&M tie lines *(USA only)* FF2 2 BSSCC 01 Hold (0-576) Hold

Figure 8-2: Name Assignments using a Large Display phone

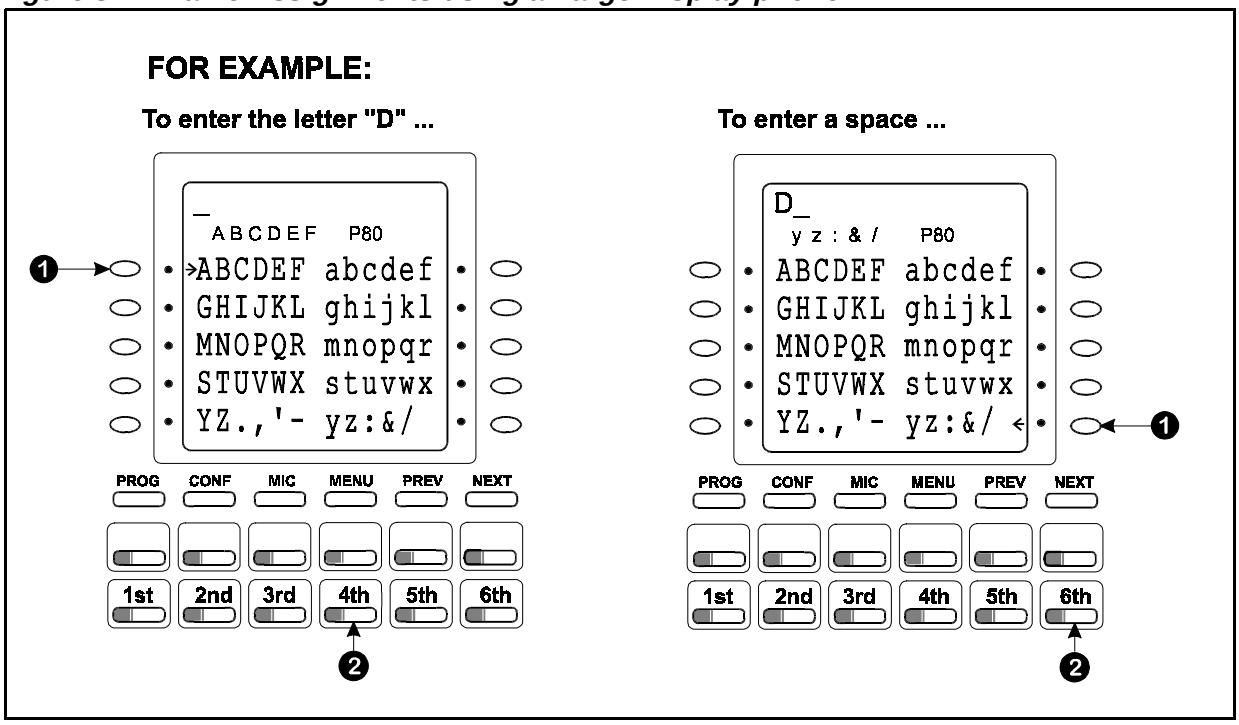
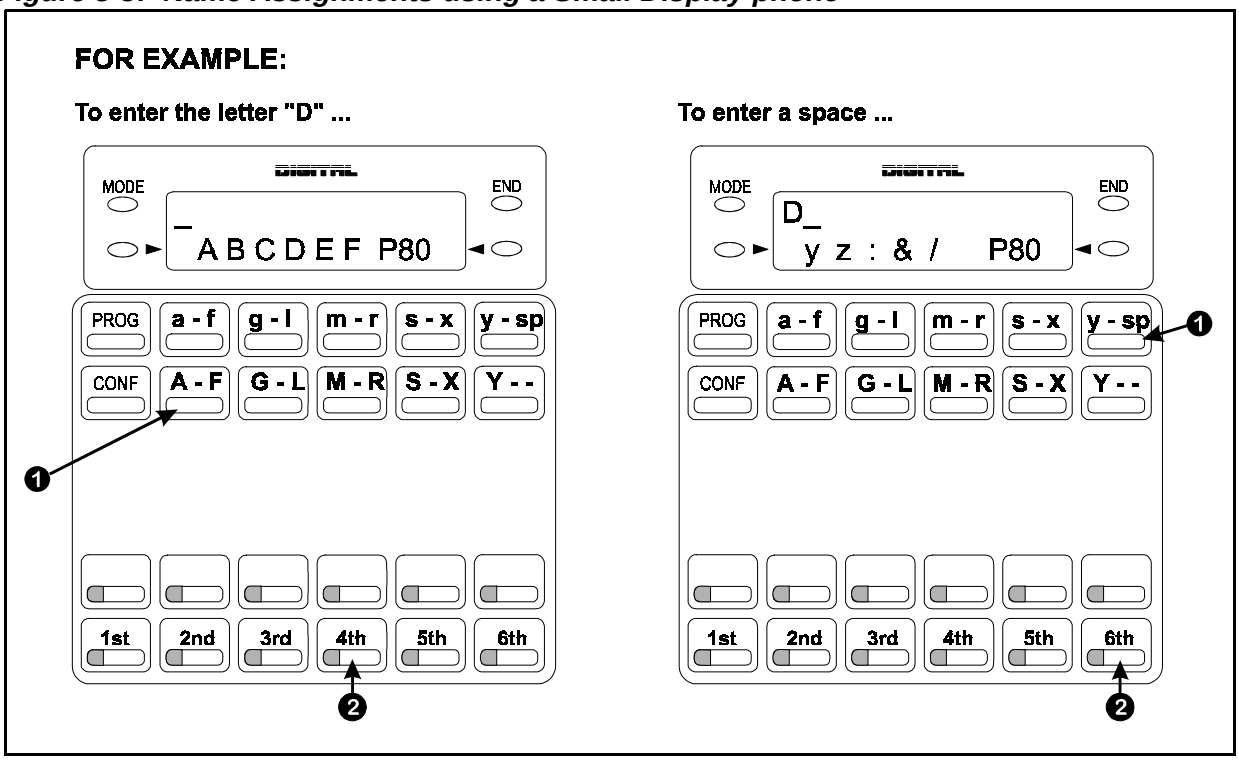


Figure 8-3: Name Assignments using a Small Display phone



FF8 0 03: Alarms

Confirm Major Alarm

0 :
Major Fault

(all CPCs) - Version 2.0 or higher

Confirm Major Alarms on Large-LCD phones.

FF8 0 03 Hold Hold Hold 1 Hold

Notes:

You can see the Major Alarm on the LCD line base.

When the "MJ" alarm LED is lit on the CPC card, you can enter this address.

- ❒ Press Hold to increment the record.
- ❒ After the data displays, press **FL/R Hold** to clear the data.

Related Programming:

Confirm Minor Alarm

0 :
Minor Fault

(all CPCs) - Version 2.0 or higher

Confirm Minor Alarms on Large-LCD phones.

FF8 0 03 Hold Hold Hold 2 Hold

Notes:

You can see the Minor Alarm on the LCD line base.

- ❒ Press Hold to increment the record.
- ❒ After the data displays, press **FL/R Hold** to clear the data.

Related Programming:

Confirm AL Alarms

0 : Alarm Fault

(all CPCs) - Version 2.0 or higher

Confirm “AL” Alarms on Large-LCD phones.

FF8 0 03 Hold Hold Hold 3 Hold

Notes:

Ten AL Alarms occurring within 10 minutes will be counted as 1 Minor Alarm, and will appear on the “Minor” LED on the CPC.

You can see AL Alarms on the LCD line base.

- ❒ Press Hold to increment the record.
- ❒ After the data displays, press **FL/R Hold** to clear the data.

Related Programming:

Dump All Trouble Records

1 : Fault Output

(all CPCs) - Version 2.0 or higher

Print alarms to RS-232C port.

FF8 0 03 1 Hold OT-1 OT-1 Hold Hold 1 Hold

OT-1 = One-Touch Key 1
(press once to start printer)
(press again to stop printer)

Notes:

Related Programming:

Programmed Data to Serial Port (pg. 1-103) **FF1 0 06 0003 Hold (0-2) Hold**

FF8 0 04: Card Settings

Card Reset

(all CPCs) - Version 2.0 or higher

BSS :
Card Status

Reset a card if the system cannot communicate with it.

FF8 0 04 0 BSS Hold (0 or 1) (FL/R + Hold)

BSS: Card Position --
B=CCU 1-6
SS=Slot 01-12

0=Not installed, or idle (no communication).
1=Installed and busy.

press the FL/R and Hold keys simultaneously
(must use key labelled "FL/R" - not flash code FF-key)

Notes:

When you reset a card, the system will display the next card. You can then reset the card in the free slot.

Even if the display shows "0" (Not installed, or idle), you can reset the card.

If the entered **BSS** position is an Extension Card, only "0" (Not installed, or idle) is available for display.

Related Programming:

Card Type Verification

(all CPCs) - Version 2.0 or higher

BSS-00 :
Card ID

Verifies the existing card type. For display only (you cannot change the card type).

FF8 0 04 1 BSS 00 Hold [01-99 displays]

BSS: Card Position --
B=CCU 1-6
SS=Slot 01-14

Card Type Setting 01-99
(see table below for values)

Notes:

The Card Type No. displayed will not match the card's address entry in **Free Slot/Option Slot Assignment** (see **0: System Configuration**). The table below shows the actual values for the displayed Card Type No.

Related Programming:

Free Slot Assignment (pg. 0-6) 01 (1-6) (01-12) Hold (1-99) Hold
Option Slot Assignment (pg. 0-7) 02 (1-6) (13 or 14) Hold (50 or 61) Hold

Table 8-4. Card Verification (FF8 0 04 1)

Display No.	Card Type	Card Description	Address Entry in 0: System Configuration
10	MFR/8		50
14	RAI		51
16	CONF		52
29	LTRK/8		1
2A	LGTRK/8		2
2B	DIDTR8		3
2C	Caller ID		1
30	AEC/8	Analog Extension Card/8-port	31
33	DEC/8	Digital Extension Card/8-port	30
50	TPRI/23	1.5M	13
53	TPRI/30	2.0M	15
60	TBRI		10
70	SPRI/23	1.5M	37
73	SPRI/30	2.0M	38
80	SBRI		35
C1	T1		6, 7, 8
D2	MFR/8	DTMF Receiver Card	50
D3	RAI		51
D6	API+		80 thru 87
D9	ACD		70, 71

Card Version Verification

BSS-01 : Card Version

(all CPCs) - Version 2.0 or higher

Verifies the version number of the card. For display only (you cannot change the version).

FF8 0 04 1 BSS 01 Hold [Version No. displays]

BSS: Card Position --
B=CCU 1-6
SS=Slot 01-14

FF8 Maintenance

Notes:

Related Programming:

FF8 0 05: Line Control

Line Lockout

BSSCC : Line Status

(all CPCs) - Version 2.0 or higher

Enable/Disable the line. You can use pre-lockout to make the line idle (the system will lockout the line).

FF8 0 05 0 BSSCC Hold (0 or 1) Hold

BSSCC: Line Position --
B=CCU 1-6
SS=Slot 01-12
CC=Channel 01-24 or
Exch.Line 01-08

IF DISPLAYED:
0=Normal
1=Exch.Line Close
2=wait for Exch.Line Close

IF INPUT:
0=Release
1=Lockout

Notes:

If the line is busy when you lockout the exchange line, "2" (meaning "wait for Exch.Line Close") will appear on the display. When the line becomes idle, the display will change to "1" ("Exch.Line Close"). Exch.Line Lockout status is not indicated on FF-key line appearances.

Related Programming:

ISDN/T1 Error Information Control

BSSC : Line ERR Control

(all CPCs) - Version 2.0 or higher

View or clear ISDN/T1 error information.

FF8 0 05 1 BSSC Hold (0 or 1) Hold

BSSC: Channel Position --
B=CCU 1-6
SS=Slot 01-12
C=1-4 (BRI) or 1 (PRI/T1)

0=Clear error information
1=Read error information

default: (none)

Notes:

Related Programming:

Layer 1 Status Error Counter (ISDN) (pg. 8-30) **FF8 0 05 2 BSSC 08 Hold (digits)**

FF8 Maintenance

Layer 1 Receive Error Counter (ISDN) (pg. 8-30) **FF8 0 05 2 BSSC 09 Hold (digits)**
Layer 1 Transmit Error Counter (ISDN) (pg. 8-31) **FF8 0 05 2 BSSC 10 Hold (digits)**
TEI Layer 2 Error Counter (ISDN) (pg. 8-31) **FF8 0 05 2 BSSC (11-90) Hold (digits)**

Signal Loss Alarm Counter

BSSC :
Loss ALM Count

(all CPCs) - Version 2.0 or higher

View historical Signal Loss Alarm errors.

FF8 0 05 2 BSSC 00 Hold (digits)

BSSC: Channel Position --
B=CCU 1-6
SS=Slot 01-12
C=1-4 (BRI) or 1 (PRI/T1)

Signal Loss Alarm Count

default: 0000

Notes:

Related Programming:

OOF Alarm Counter

BSSC-01 :
OFF ALM Count

(all CPCs) - Version 2.0 or higher

View historical Out-Of-Frame (OOF) Alarm errors.

FF8 0 05 2 BSSC 01 Hold (digits)

BSSC: Channel Position --
B=CCU 1-6
SS=Slot 01-12
C=1-4 (BRI) or 1 (PRI/T1)

OOF Alarm Count

default: 0000

FF8 Maintenance

Notes:

Related Programming:

Sync Loss Alarm Counter

BSSC-02 : SYNC ALM Count

(all CPCs) - Version 2.0 or higher

View historical Sync Loss Alarm errors.

FF8 0 05 2 BSSC 02 Hold (digits)

BSSC: Channel Position --
B=CCU 1-6
SS=Slot 01-12
C=1-4 (BRI) or 1 (PRI/T1)

Sync Loss Alarm Count

default: 0000

Notes:

Related Programming:

Yellow Alarm Counter

BSSC-03 :0 Yellow ALM Count

(all CPCs) - Version 2.0 or higher

View historical Yellow Alarm errors.

FF8 0 05 2 BSSC 03 Hold (digits)

BSSC: Channel Position --
B=CCU 1-6
SS=Slot 01-12
C=1-4 (BRI) or 1 (PRI/T1)

Yellow Alarm Count

default: 0000

Notes:

Related Programming:

FF8 Maintenance

AIS Alarm Counter

BSSC-04 :
AIS ALM Count

(all CPCs) - Version 2.0 or higher

View historical Alarm Indication Signal (AIS) errors.

FF8 0 05 2 BSSC 04 Hold (digits)

BSSC: Channel Position --
B=CCU 1-6
SS=Slot 01-12
C=1-4 (BRI) or 1 (PRI/T1)

AIS Alarm Count

default: 0000

Notes:

Related Programming:

Slip Alarm Counter

BSSC-05 :0
SLIP ALM Count

(all CPCs) - Version 2.0 or higher

View historical Slip Alarm errors.

FF8 0 05 2 BSSC 05 Hold (digits)

BSSC: Channel Position --
B=CCU 1-6
SS=Slot 01-12
C=1-4 (BRI) or 1 (PRI/T1)

Slip Alarm Count

default: 0000

Notes:

Related Programming:

FF8 Maintenance

CRC Alarm Counter

(all CPCs) - Version 2.0 or higher

BSSC-06 :
CRC ALM Count

View historical CRC Alarm errors.

FF8 0 05 2 BSSC 06 Hold (digits)

BSSC: Channel Position --
B=CCU 1-6
SS=Slot 01-12
C=1-4 (BRI) or 1 (PRI/T1)

CRC Alarm Count

default: 0000

Notes:

Related Programming:

BPV Alarm Counter

(all CPCs) - Version 2.0 or higher

BSSC-07 :0
BPV ALM Count

View historical BPV Alarm errors.

FF8 0 05 2 BSSC 07 Hold (digits)

BSSC: Channel Position --
B=CCU 1-6
SS=Slot 01-12
C=1-4 (BRI) or 1 (PRI/T1)

BPV Alarm Count

default: 0000

Notes:

Related Programming:

Layer 1 Status Error Counter (ISDN)

BSSC-08 :0
Layer1 Status

(all CPCs) - Version 2.0 or higher

View historical Layer 1 status errors.

FF8 0 05 2 BSSC 08 Hold (digits)

BSSC: Channel Position --
B=CCU 1-6
SS=Slot 01-12
C=1-4 (BRI) or 1 (PRI/T1)

Layer 1 Status Error Count

default: 00

Notes:

Related Programming:

Layer 1 Receive Error Counter (ISDN)

BSSC-09 :0
Layer1 R-Error

(all CPCs) - Version 2.0 or higher

View historical Layer 1 Receive errors.

FF8 0 05 2 BSSC 09 Hold (digits)

BSSC: Channel Position --
B=CCU 1-6
SS=Slot 01-12
C=1-4 (BRI) or 1 (PRI/T1)

Layer 1 Receive Error Count

default: 000000

Notes:

Related Programming:

Layer 1 Transmit Error Counter (ISDN)

BSSC-10 :0
Layer1 T-Error

(all CPCs) - Version 2.0 or higher

View historical Layer 1 Transmit errors.

FF8 0 05 2 BSSC 10 Hold (digits)

BSSC: Channel Position --
B=CCU 1-6
SS=Slot 01-12
C=1-4 (BRI) or 1 (PRI/T1)

Layer 1 Transmit Error Count

default: 000000

Notes:

Related Programming:

TEI Layer 2 Error Counter (ISDN)

BSSC-11 :0
TEI0 Layer2ERR1

(all CPCs) - Version 2.0 or higher

View historical TEI Layer 2 errors.

FF8 0 05 2 BSSC (11-90) Hold (digits)

BSSC: Channel Position --
B=CCU 1-6
SS=Slot 01-12
C=1-4 (BRI) or 1 (PRI/T1)

TEI Error No.
(see table below)

TEI Layer 2 Error Count

default: 000000

Notes:

Related Programming:

FF8
Maintenance

Table 8-5. TEI Layer 2 Error Counter (FF8 0 05 2)

Address No.	Error No.	for TEI No.	
11	Error 1	**TEI-0**	
12	Error 2		
13	Error 3		
14	Error 4		
15	Error 5		
16	Error 1	**TEI-1**	
17	Error 2		
18	Error 3		
19	Error 4		▲
20	Error 5		(PRI: display)
21	Error 1	**TEI-2**	(PRI: no display)
22	Error 2		▼
23	Error 3		
24	Error 4		
25	Error 5		
26	Error 1	**TEI-3**	
27	Error 2		
28	Error 3		
29	Error 4		
30	Error 5		
31	Error 1	**TEI-4**	
32	Error 2		
33	Error 3		
34	Error 4		
35	Error 5		
36	Error 1	**TEI-5**	
37	Error 2		
38	Error 3		
39	Error 4		
40	Error 5		
41	Error 1	**TEI-6**	
42	Error 2		
43	Error 3		
44	Error 4		
45	Error 5		
46	Error 1	**TEI-7**	
47	Error 2		
48	Error 3		
49	Error 4		
50	Error 5		

FF8 Maintenance

Address No.	Error No.	for TEI No.	
51	Error 1	TEI-8	
52	Error 2		
53	Error 3		
54	Error 4		
55	Error 5		
56	Error 1	TEI-9	
57	Error 2		
58	Error 3		
59	Error 4		
60	Error 5		
61	Error 1	TEI-10	
62	Error 2		
63	Error 3		
64	Error 4		
65	Error 5		
66	Error 1	TEI-11	
67	Error 2		
68	Error 3		
69	Error 4		
70	Error 5		
71	Error 1	TEI-12	
72	Error 2		
73	Error 3		
74	Error 4		
75	Error 5		
76	Error 1	TEI-13	
77	Error 2		
78	Error 3		
79	Error 4		
80	Error 5		
81	Error 1	TEI-14	
82	Error 2		
83	Error 3		
84	Error 4		
85	Error 5		
86	Error 1	TEI-15	
87	Error 2		
88	Error 3		
89	Error 4		
90	Error 5		

T1 Loopback 1 Diagnostics

BSS :
LP01 Start/Stop

(all CPCs) - Version 2.0 or higher

Enable/Disable T1 Loopback mode 1.

FF8 0 05 3 BSS(C) Hold (0 or 1) Hold

BSS: Card Position --
B=CCU 1-6
SS=Slot 01-12

0=Stop (default)
1=Start

Notes:

When you select 1=Start, the T1 card starts loopback mode. (Loopback mode 1 is one of the diagnostics which is used to check a T1 card.)

Related Programming:

T1 Loopback 2 Diagnostics

BSS :
LP02 Start

(all CPCs) - Version 2.0 or higher

Enable/disable T1 Loopback mode 2.

FF8 0 05 4 BSS(C) Hold 1 Hold

BSS: Card Position --
B=CCU 1-6
SS=Slot 01-12

1=Start

Notes:

Related Programming:

FF8 Maintenance

FF8 0 06: ISDN Channel Control

ISDN Channel Control

(all CPCs) - Version 2.0 or higher

BSSC-01 :0
CH01 Lockout

Enable/Disable the lockout of ISDN on the line base.

FF8 0 06 BSSC (0-3) Hold CONF... (0 or 1) Hold

BSS: Card Position --
B=CCU 1-6
SS=Slot 01-12
C=1-4 (BRI) or 1 (PRI)

0=Channels 1-6
1=Channels 7-12
2=Channels 13-18
3=Channels 19-24

0=Lockout (default)
1=Lockout

Notes:

Related Programming:

Table 8-6. ISDN Channel Lockout (FF8 0 06)

Address	Channel No.	
FF8 0 06 (BSSC) 0 Hold CONF	Channel 1	
FF8 0 06 (BSSC) 0 Hold CONF Hold	Channel 2	
FF8 0 06 (BSSC) 0 Hold CONF (Hold x2)	Channel 3	
FF8 0 06 (BSSC) 0 Hold CONF (Hold x3)	Channel 4	
FF8 0 06 (BSSC) 0 Hold CONF (Hold x4)	Channel 5	
FF8 0 06 (BSSC) 0 Hold CONF (Hold x5)	Channel 6	
FF8 0 06 (BSSC) 1 Hold CONF	Channel 7	
FF8 0 06 (BSSC) 1 Hold CONF Hold	Channel 8	
FF8 0 06 (BSSC) 1 Hold CONF (Hold x2)	Channel 9	
FF8 0 06 (BSSC) 1 Hold CONF (Hold x3)	Channel 10	
FF8 0 06 (BSSC) 1 Hold CONF (Hold x4)	Channel 11	
FF8 0 06 (BSSC) 1 Hold CONF (Hold x5)	Channel 12	
FF8 0 06 (BSSC) 2 Hold CONF	Channel 13	
FF8 0 06 (BSSC) 2 Hold CONF Hold	Channel 14	
FF8 0 06 (BSSC) 2 Hold CONF (Hold x2)	Channel 15	
FF8 0 06 (BSSC) 2 Hold CONF (Hold x3)	Channel 16	

Address	Channel No.	
FF8 0 06 (BSSC) 2 Hold CONF (Hold x4)	Channel 17	
FF8 0 06 (BSSC) 2 Hold CONF (Hold x5)	Channel 18	
FF8 0 06 (BSSC) 3 Hold CONF	Channel 19	
FF8 0 06 (BSSC) 3 Hold CONF Hold	Channel 20	
FF8 0 06 (BSSC) 3 Hold CONF (Hold x2)	Channel 21	
FF8 0 06 (BSSC) 3 Hold CONF (Hold x3)	Channel 22	
FF8 0 06 (BSSC) 3 Hold CONF (Hold x4)	Channel 23	
FF8 0 06 (BSSC) 3 Hold CONF (Hold x5)	Channel 24	

FF8 0 07: Bus Monitor (for factory use)

Bus Monitor Save Control

000 :0
Save Start/Stop

(all CPCs) - Version 2.0 or higher

Save internal bus communication, which can then be used to investigate a problem that occurs.

FF8 0 07 0 00 Hold (0 or 1) Hold

0=Stop/Do not save. (default)
1=Start.

Notes:

Related Programming:

Trigger Codes

001 :
Stop SR1G Code 1

(all CPCs) - Version 2.0 or higher

Specify up to 5 Trigger Codes, which are used for saving Bus Monitor information.

FF8 0 07 0 (01-15) Hold (code) Hold

01-03=for Code 1
04-06=for Code 2
07-09=for Code 3
10-12=for Code 4
13-15=for Code 5

(see table below)

Notes:

This address should be used only under the supervision of Panasonic Technical Support.

Related Programming:

Table 8-7. Trigger Codes (FF8 0 07 0 [01-15])

FF8 0 07 0...	Address Description	Data Setting
01	Trigger Code 1	
02	Data Position (Code 1)	
03	Stop Data (Code 1)	
04	Trigger Code 2	
05	Data Position (Code 2)	
06	Stop Data (Code 2)	
07	Trigger Code 3	
08	Data Position (Code 3)	
09	Stop Data (Code 3)	
10	Trigger Code 4	
11	Data Position (Code 4)	
12	Stop Data (Code 4)	
13	Trigger Code 5	
14	Data Position (Code 5)	
15	Stop Data (Code 5)	

FF8 0 08: Table Dump

Table Dump

020008 :
0001-0000-0000

(All CPCs) - Version 2.0 or higher

This address provides Problem Report information and should be used only if requested by Panasonic Technical Support.

FF8 0 08 Hold Hold (vvvv-dddd-iiii) Hold

Notes:

Related Programming:

FF8 0 09: Memory Dump

Memory Dump

000000 :0040
000000000

(all CPCs) - Version 2.0 or higher

This address provides Problem Report information and should be used only if requested by Panasonic Technical Support.

FF8 0 09 Hold Hold (aaaaaaaa) Hold

Notes:

Related Programming:

FF8
Maintenance

FF8 0 10: DDI/CLI Names

DDI/CLI Names ("A" Side only)

A B C D E F 001

(all CPCs) - Version 2.0 or higher

Assign names of up to 10 characters each to the DDI/CLI numbers in the **DDI/CLI Dial Table ("A" Side) (pg. 1-184).**

FF8 0 10 Hold Hold (001-576) Hold (up to 10 char.) Hold

"A" Side DDI/CLI No. 1-576

DDI/CLI Name (up to 10 characters, including AA-zz, 0-9, * and #)

default: (none)

Notes:

See pg. 8-20 for instructions on entering names.

DDI/CLI Names cannot be assigned to the "B" side DDI/CLI Dial Table.

Related Programming:

DDI/CLI Numbering ("A" Side) (pg. 1-183) **FF1 4 01 0001 Hold (1-4) Hold**
DDI/CLI Dial Table ("A" Side) (pg. 1-184) **FF1 4 02 (000-575) (1-6) Hold (0-9999 or 1-72) Hold**

FF8 Maintenance

FF8 1: User Maintenance

FF8 1 00: System Clock

System Date

(all CPCs) - Version 2.0 or higher

0 :YYMMDD
Date

Set the current date for the ICX phone system.

FF8 1 00 0 Hold (YYMMDD) Hold

System Date (Year/Month/Day)

default (after initialising system): 970101

Notes:

Related Programming:

System Time

(all CPCs) - Version 2.0 or higher

1 :HHMM
Time

Set the current time for the ICX phone system.

FF8 1 00 1 Hold (HHMM) Hold

System Time (Hour/Minute) in military format
Example: **1328** for 1:28 pm.

default (after initialising system): 00:00

FF8
Maintenance

Notes:

Related Programming:

Time Display Mode (pg. 1-21) FF1 0 01 0023 Hold (0 or 1) Hold

System Day of Week

(all CPCs) - Version 2.0 or higher

2 :3
Week of the Day

Set current day of the week for the phone system.

FF8 1 00 2 Hold (1-7) Hold

System Day of Week:
1=Mon
2=Tue
3=Wed
4=Thu
5=Fri
6=Sat
7=Sun

default: 3 (Wed -- for default System Date: 970101)

Notes:

When you enter **System Date,** the system will automatically pick the correct **System Day of Week.**

Related Programming:

System Date (pg. 8-42) **FF8 1 00 0 Hold (YYMMDD) Hold**

FF8
Maintenance

FF8 1 01: Personal Speed Dial (PSD)

PSD Numbers

(all CPCs) - Version 2.0 or higher

0 :
Ext# or Name 80

Assign Personal Speed Dial (PSD) codes for each extension.

(clears current data)

FF8 1 01 Hold 0 Hold Hold (0-9999) Hold (PSD) Hold FL/R (up to 24 char.) Hold

Extension No.

PSD Bin No.
range: 80-99

Phone Number
stored in PSD bin
(up to 24 char.)

Notes:

You can assign up to 10 PSDs to the one-touch keys on a non-display or small-display phone. You can assign up to 20 PSDs to the soft keys on a Large-LCD phone.

Speed Dial numbers can contain up to 24 characters. The following table shows which keys to use for entering special characters.

Table 8-8. Keys for Speed-Dial Number Entry

To indicate...	Enter...
Digit or character	0, 1 - 9, ∗, or #
Intercom Level	MEMORY ∗ #
MCO Code 9	MEMORY ∗ 0
MCO Code 81	MEMORY ∗ 71
MCO Code 82	MEMORY ∗ 72
MCO Code 83	MEMORY ∗ 73
MCO Code 84	MEMORY ∗ 74
Pause	REDIAL
DP - DTMF Code	MEMORY ∗∗
SSD Code	MEMORY NN(N)
Hyphen (-)	PROG
Display Number (Start/Stop)	MEMORY ∗ 2

FF8 Maintenance

Special Instructions for Large-Display Phones:

When you enter this address, the display on the Large-LCD phone will change to HYPHEN (soft key #3), PAUSE (soft key #4), and SPD-ID (soft key #5) so you can enter these characters into the PSD phone number. (On non-display or small-display phones, use the one-touch keys #3 thru #5 for entering these characters.)

- ❒ "SPD-ID" represents the MEMORY key, which must precede each special code you enter into the phone number (such as another SSD/PSD code, Account Code, etc.).

❒ When you press soft key #3 (HYPHEN) to enter a hyphen, it will display as F. Pressing soft key #4 (PAUSE) will display as R. Pressing soft key #5 (SPD-ID) will display as A.

Related Programming:

Exchange Line Access in Speed Dialling (pg. 1-23) FF1 0 02 0004 Hold (0 or 1) Hold

PSD Names

(all CPCs) - Version 2.0 or higher

1 :
ABCDEF 80

Assign names to PSD codes for each extension.

(clears current data)

FF8 1 01 Hold 1 Hold Hold (0-9999) Hold (80-99) Hold FL/R (up to 7 char.) Hold

Extension No. PSD Code 80-99 Name for PSD Code (up to 7 char.)

Notes:

PSD Names are displayed alphabetically on Large-LCD phones.

To assign PSD Names:

❒ After entering the PSD Code and Hold in the above address, press FLASH to clear current data (if any).

❒ Then press the soft key that represents the group of letters you want to choose from.

❒ Then press one of the FF-keys on the bottom row (underneath the LCD), that is in the same position as the letter you want to choose.

Use the ∗ key to erase an entry. Use the # key to enter a space.

Press Hold when finished.

See figures, pg. 8-20 for instructions on entering names.

Related Programming:

FF8 1 02: System Speed Dial (SSD)

SSD Numbers

10 :
-SSDxxx xxx

(all CPCs) - Version 2.0 or higher

Assign System Speed Dial (SSD) codes for the system.

(clears current data)

FF8 1 02 Hold 0 Hold Hold (00/0-79/9) Hold FL/R (up to 24 char.) Hold

SSD Code (Bin No.)
range: 00-79 or 000-799

Phone No. stored in SSD bin
(up to 24 char.)

Notes:

Speed Dial numbers can contain up to 24 characters. The following table shows which keys to use for entering special characters.

Table 8-9. Keys for Speed-Dial Number Entry

To indicate...	Enter...
Digit or character	0, 1 - 9, ∗, or #
Intercom Level	MEMORY ∗ #
MCO Code 9	MEMORY ∗ 0
MCO Code 81	MEMORY ∗ 71
MCO Code 82	MEMORY ∗ 72
MCO Code 83	MEMORY ∗ 73
MCO Code 84	MEMORY ∗ 74
Pause	REDIAL
DP - DTMF Code	MEMORY ∗∗
SSD Code	MEMORY NN(N)
Hyphen (-)	PROG
Display Number (Start/Stop)	MEMORY ∗ 2

Special Instructions for Large-Display Phones:

When you enter this address, the display on the Large-LCD phone will change to HYPHEN (soft key #3), PAUSE (soft key #4), and SPD-ID (soft key #5) so you can enter these characters into the SSD phone number. (On non-display or small-display phones, use the one-touch keys #3 thru #5 for entering these characters.)

- ❒ "SPD-ID" represents MEMORY, which must precede each special code you enter into the phone number (such as another SSD/PSD code, Account Code, etc.).
- ❒ When you press soft key #3 (HYPHEN) to enter a hyphen, it will display as F. Pressing soft key #4 (PAUSE) will display as R. Pressing soft key #5 (SPD-ID) will display as A.

FF8 Maintenance

Related Programming:

SSD Code Numbering (pg. 1-22) FF1 0 02 0002 Hold (0 or 1) Hold
Exchange Line Access in Speed Dialling (pg. 1-23) FF1 0 02 0004 Hold (0 or 1) Hold

SSD Names

(all CPCs) - Version 2.0 or higher

10 :
A B C D E F xxx

Assign names to SSD codes.

(clears current data)

FF8 1 02 Hold 1 Hold Hold (00/0-79/9) Hold FL/R (up to 16 char.) Hold

SSD Code (Bin No.)

Name for SSD Code (up to 16 char.)

Notes:

SSD Names are displayed alphabetically on Large-LCD phones.

To assign SSD Names, use the same procedure as **PSD Names:**

- ❒ After entering the SSD Code and Hold in the above address, press FL/R to clear current data (if any).
- ❒ Then press the soft key that represents the group of letters you want to choose from.
- ❒ Then press one of the FF-keys on the bottom row (underneath the LCD), that is in the same position as the letter you want to choose.

Use the ∗ key to erase an entry. Use the # key to enter a space.

Press Hold when finished.

See figures, pg. 8-20 for instructions on entering names.

Related Programming:

SSD Index

(all CPCs) - Version 2.0 or higher

A B C D E F 1

Assign a name to SSD Indexes #1 and #2.

(clears current data)

FF8 1 02 Hold 2 Hold Hold (1 or 2) Hold FL/R (up to 4 char.) Hold

SSD Index No. 1 or 2

Name for SSD Index (up to 4 char.)

Notes:

Related Programming:

FF8
Maintenance

FF8 1 03: Extension Names

Extension Name Assignment

(all CPCs) - Version 2.0 or higher

Assign names to extensions.

- :
ABCDEF

(clears current data)

FF8 1 03 Hold 0 Hold Hold (0-9999) Hold FL/R (up to 10 char.) Hold

Extension No. 0-9999

Name for Extension (up to 10 char.)

Notes:

If Using a Large-Display phone to program Extension Names: After punching-in:

FF8 1 03 Hold 0 Hold Hold

in the above address, the display will show a list of existing extension numbers and name assignments, in alphabetical order. If you don't already know the extension number, press the PREV or NEXT key to toggle through the list. Then press the soft key next to the extension number whose name you want to change.

To enter the name, use the same procedure as **SSD and PSD Names**. See figures, pg. 8-20 for instructions on entering names.

During normal phone-system operating mode, each display phone's Extension Name will appear on the 2nd line of the display while the phone is idle. When the phone is used to call another extension, the destination extension's assigned Name will appear on the 1st line of the display.

Related Programming:

Extension Number Assignment (pg. 3-4) **FF3 0 BSSC 02 Hold (0-9999) Hold**

Extension Index

(all CPCs) - Version 2.0 or higher

Assign a name to Extension Indexes #1 and #2.

ABCDEF 1

(clears current data)

FF8 1 03 Hold 1 Hold Hold (1 or 2) Hold FL/R (up to 4 char.) Hold

Extension Index No. 1 or 2

Name for Extension Index (up to 4 char.)

FF8 Maintenance

Notes:

Related Programming:

FF8 1 04 thru 06: ID Codes

Verified Account Codes

001:Account Code

(all CPCs) - Version 2.0 or higher

Enter up to 500 Verified Account Codes to be stored in system memory.

(clears current data)

FF8 1 04 Hold Hold (001-500) 0001 Hold FL/R (up to 10 digits) Hold

Entry No. (max. 500 entries)

Verified Account Code (up to 10 digits)

default: [no assignment]

Notes:

Using Verified Account Codes: The user enters the feature code for Account Code Entry (#8 by default), dials the Account Code and # before making a call. If the dialled Code matches an entry in the above address, the user can then proceed to dial a phone number. The Account Code's TRS Class (assigned in the next address) will determine whether the call is allowed or not, overriding the extension's TRS Class which is normally used. See pg. 3-22 for more information.

Related Programming:

TRS Class for Forced Account Codes (pg. 1-117) FF1 0 19 0001 Hold (1-50) Hold
Forced Account Codes (pg. 3-21) for extensions FF3 0 BSSC 04 24 Hold (0 or 1) Hold
Verified Account Codes (pg. 3-22) for extensions FF3 0 BSSC 04 25 Hold (0 or 1) Hold
TRS Class Assignment (Day) (pg. 3-25) for extensions FF3 0 BSSC 06 0 Hold (1-50) Hold
TRS Class Assignment (Night) (pg. 3-25) for extensions FF3 0 BSSC 06 1 Hold (1-50) Hold
FF6 1: TRS Class Definitions (pg. 6-16)
TRS Class for Verified Account Codes (pg. 8-50) FF8 1 04 Hold Hold (001-500) 0002 Hold (1-50) Hold

TRS Class for Verified Account Codes

001:TRS Class

(all CPCs) - Version 2.0 or higher

Assign a TRS/Call Barring Class to each Verified Account Code.

FF8 1 04 Hold Hold (001-500) 0002 Hold (1-50) Hold

Entry No. (max. 500 entries)

TRS Class No. (1-50)

default: [no assignment]

FF8 Maintenance

Notes:

This TRS Class will override the extension's TRS Class for outbound calls, if the user enters a Verified Account Code. See pg. 3-22 for more information.

Related Programming:

TRS Class for Forced Account Codes (pg. 1-117) FF1 0 19 0001 Hold (1-50) Hold
Forced Account Codes (pg. 3-21) for extensions FF3 0 BSSC 04 24 Hold (0 or 1) Hold
Verified Account Codes (pg. 3-22) for extensions FF3 0 BSSC 04 25 Hold (0 or 1) Hold
TRS Class Assignment (Day) (pg. 3-25) for extensions FF3 0 BSSC 06 0 Hold (1-50) Hold
TRS Class Assignment (Night) (pg. 3-25) for extensions FF3 0 BSSC 06 1 Hold (1-50) Hold
FF6 1: TRS Class Definitions (pg. 6-16)
Verified Account Codes (pg. 8-50) FF8 1 04 Hold Hold (001-500) 0001 Hold FL/R (up to 10 digits) Hold

Call-Forward ID Codes for Voice Mail

CF-ID EXT xxxx

(all CPCs) - Version 2.0 or higher

Assign a Voice Mail Call-Forward ID code to each extension.

(clears current data)

FF8 1 05 Hold Hold (0-9999) Hold FL/R (up to 16 char.) Hold

Extension No.

Call-Forward ID Code (for VM)

(up to 16 characters, including digits 0-9, ∗, #, and Pause)

default: [no assignment]

Notes:

For Built-In VM: Code= [VPU Port Hunt Group Pilot No.] * [Ext.No.] #
(must program this Code for every mailbox)

(all CPCs - Version 2.5 or higher) When the system sends intercom DTMF signals for the Voice Mail ID Code, DTMF On/Off Pattern #1 will automatically be used (it is defined in FF1 1 01 0016 and 0017).

Related Programming:

FF1 0 23 and 24: Voice Mail Codes (pg. 1-122)
DTMF ON: Pattern #1 (pg. 1-136) FF1 1 01 0016 Hold (1-255) Hold
DTMF OFF: Pattern #1 (pg. 1-137) FF1 1 01 0017 Hold (1-255) Hold
Extension Number Assignment (pg. 3-4) FF3 0 BSSC 02 Hold (0-9999) Hold
Extension HG: Pilot Number (pg. 5-14) FF5 1 (01-72) 02 Hold (0-9999) Hold

MSG Key ID Codes

(all CPCs) - Version 2.0 or higher

MSG-ID EXT xxxx

(for Large Display phones only) Assign a code (such as a VM Access Code) to the extension phone's "MSG" one-touch key.

(clears current data)

FF8 1 06 Hold Hold (0-9999) Hold FL/R (up to 16 char.) Hold

Extension No.

MSG Key ID Code
(up to 16 characters, including digits 0-9, ∗, #, and Pause)

default: [no assignment]

Notes:

The MSG key can be used to retrieve Voice Mail messages, as well as Message-Waiting calls received from other extensions. If the extension receives both kinds of messages at the same time, pressing the MSG key will retrieve Voice Mail messages first.

If the MSG key is not available, assign the "Retrieve Messages" feature access code to an FF-key (see FF4 for instructions).

(all CPCs - Version 2.5 or higher) When the system sends intercom DTMF signals for the Voice Mail ID Code, DTMF On/Off Pattern #1 will automatically be used (it is defined in FF1 1 01 0016 and 0017).

Related Programming:

Built-In VM: Message Retrieve Key (pg. 1-17) FF1 0 01 0015 Hold (0 or 1) Hold
FF1 0 23 and 24: Voice Mail Codes (pg. 1-122)
DTMF ON: Pattern #1 (pg. 1-136) FF1 1 01 0016 Hold (1-255) Hold
DTMF OFF: Pattern #1 (pg. 1-137) FF1 1 01 0017 Hold (1-255) Hold
Call-Forward ID Codes for Voice Mail (pg. 8-51) FF8 1 05 Hold Hold (0-9999) Hold FL/R (up to 16 char.) Hold

FF8
Maintenance

FF8 1 07: Special Days/Times

Weekdays

000 :
PTN 1-1 Start T

(all CPCs) - Version 2.0 or higher

Assign up to 5 weekday start times and modes.

FF8 1 07 0 (00-09) Hold (HHMM or 0-5) Hold

00=Weekday1 Start Time
01=Weekday1 Start Mode
02=Weekday2 Start Time
03=Weekday2 Start Mode
04=Weekday3 Start Time
05=Weekday3 Start Mode
06=Weekday4 Start Time
07=Weekday4 Start Mode
08=Weekday5 Start Time
09=Weekday5 Start Mode

(HHMM)=Start Time (Hour/Minute)

(0-5)=Start Mode:
0: No switch
1: Day1
2: Day2
3: Night
4: Night1
5: Night2

Notes:

Related Programming:

Special Days of the Month (pg. 8-60) FF8 1 07 3 (00-34) Hold (0-3) Hold

FF8 Maintenance

Weekend "A"

010 :
PTN 2-1 Start T

(all CPCs) - Version 2.0 or higher

Set up to 5 different Weekend "A" start times and modes.

FF8 1 07 0 (10-19) Hold (HHMM or 0-5) Hold

10="A" Weekend1 Start Time
11="A" Weekend1 Start Mode
12="A" Weekend2 Start Time
13="A" Weekend2 Start Mode
14="A" Weekend3 Start Time
15="A" Weekend3 Start Mode
16="A" Weekend4 Start Time
17="A" Weekend4 Start Mode
18="A" Weekend5 Start Time
19="A" Weekend5 Start Mode

(HHMM)=Start Time (Hour/Minute)

(0-5)=Start Mode:
- 0: no switch
- 1: Day1
- 2: Day2
- 3: Night
- 4: Night1
- 5: Night2

Notes:

Weekend "A" typically applies to days like Saturdays, where only one mode (Day1, Day2, Night, Night1, or Night2) will be used for the entire day.

Related Programming:

Special Days of the Month (pg. 8-60) FF8 1 07 3 (00-34) Hold (0-3) Hold

Weekend "B"

020 :
PTN 3-1 Start T

(all CPCs) - Version 2.0 or higher

Set up to 5 different Weekend "B" start times and modes.

FF8 1 07 0 (20-29) Hold (HHMM or 0-2) Hold

20="B" Weekend1 Start Time
21="B" Weekend1 Start Mode
22="B" Weekend2 Start Time
23="B" Weekend2 Start Mode
24="B" Weekend3 Start Time
25="B" Weekend3 Start Mode
26="B" Weekend4 Start Time
27="B" Weekend4 Start Mode
28="B" Weekend5 Start Time
29="B" Weekend5 Start Mode

(HHMM)=Start Time (Hour/Minute)

(0-2)=Start Mode:
- 0: Day1
- 1: Day2
- 2: Night

FF8 Maintenance

Notes:

Weekend “B” is typically used for Sundays, where only one of the modes (Day1, Day2, or Night) applies for the day.

Related Programming:

Holidays

1000 :
Special Day 01

(all CPCs) - Version 2.0 or higher

Set up to 20 different holidays, each with up to five different time periods.

FF8 1 07 1 (000-219) Hold (MMDD, HHMM or 0-5) Hold

Address Nos. for Holidays 1-20 (for each holiday, set the Date and five Start Times/Modes)

(see table below)

(MMDD)=Holiday Date (Month/Day)

(HHMM)=Start Time (Hour/Minute)

(0-5)=Start Mode:
- 0: No switch
- 1: Day1
- 2: Day2
- 3: Night
- 4: Night1
- 5: Night2

Notes:

Related Programming:

Table 8-10. Holidays (FF8 1 07 1)

Holidays: FF8 1 07 1 (000-219) Hold (MMDD or HHMM or 0-5) Hold						
-- VALUES -- (MMDD, HHMM, or 0-5)		**-- ADDRESS NOs. (000-219) -- TIME PERIODS**				
		PERIOD 1	**PERIOD 2**	**PERIOD 3**	**PERIOD 4**	**PERIOD 5**
HOLIDAY 1	Date (MMDD)	**000**				
	Start Time (HHMM)	**001**	**003**	**005**	**007**	**009**
	Mode (0-5): 0=No swtch 1=Day1 2=Day2 3=Night 4=Night1 5=Night2	**002**	**004**	**006**	**008**	**010**
HOLIDAY 2	Date (MMDD)	**011**				
	Start Time (HHMM)	**012**	**014**	**016**	**018**	**020**
	Mode (0-5)	**013**	**015**	**017**	**019**	**021**
HOLIDAY 3	Date (MMDD)	**022**				
	Start Time (HHMM)	**023**	**025**	**027**	**029**	**031**
	Mode (0-5)	**024**	**026**	**028**	**030**	**032**
HOLIDAY 4	Date (MMDD)	**033**				
	Start Time (HHMM)	**034**	**036**	**038**	**040**	**042**
	Mode (0-5)	**035**	**037**	**039**	**041**	**043**
HOLIDAY 5	Date (MMDD)	**044**				
	Start Time (HHMM)	**045**	**047**	**049**	**051**	**053**
	Mode (0-5)	**046**	**048**	**050**	**052**	**054**
HOLIDAY 6	Date (MMDD)	**055**				
	Start Time (HHMM)	**056**	**058**	**060**	**062**	**064**
	Mode (0-5)	**057**	**059**	**061**	**063**	**065**
HOLIDAY 7	Date (MMDD)	**066**				
	Start Time (HHMM)	**067**	**069**	**071**	**073**	**075**
	Mode (0-5)	**068**	**070**	**072**	**074**	**076**

Holidays: FF8 1 07 1 (000-219) Hold (MMDD or HHMM or 0-5) Hold						
-- VALUES -- (MMDD, HHMM, or 0-5)		-- ADDRESS NOs. (000-219) -- TIME PERIODS				
		PERIOD 1	PERIOD 2	PERIOD 3	PERIOD 4	PERIOD 5
HOLIDAY 8	Date (MMDD)	077				
	Start Time (HHMM)	078	080	082	084	086
	Mode (0-5)	079	081	083	085	087
HOLIDAY 9	Date (MMDD)	088				
	Start Time (HHMM)	089	091	093	095	097
	Mode (0-5)	090	092	094	096	098
HOLIDAY 10	Date (MMDD)	099				
	Start Time (HHMM)	100	102	104	106	108
	Mode (0-5)	101	103	105	107	109
HOLIDAY 11	Date (MMDD)	110				
	Start Time (HHMM)	111	113	115	117	119
	Mode (0-5)	112	114	116	118	120
HOLIDAY 12	Date (MMDD)	121				
	Start Time (HHMM)	122	124	126	128	130
	Mode (0-5)	123	125	127	129	131
HOLIDAY 13	Date (MMDD)	132				
	Start Time (HHMM)	133	135	137	139	141
	Mode (0-5)	134	136	138	140	142
HOLIDAY 14	Date (MMDD)	143				
	Start Time (HHMM)	144	146	148	150	152
	Mode (0-5)	145	147	149	151	153
HOLIDAY 15	Date (MMDD)	154				
	Start Time (HHMM)	155	157	159	161	163
	Mode (0-5)	156	158	160	162	164

Holidays: FF8 1 07 1 (000-219) Hold (MMDD or HHMM or 0-5) Hold						
-- VALUES -- (MMDD, HHMM, or 0-5)		-- ADDRESS NOs. (000-219) -- TIME PERIODS				
		PERIOD 1	PERIOD 2	PERIOD 3	PERIOD 4	PERIOD 5
HOLIDAY 16	Date (MMDD)	165				
	Start Time (HHMM)	166	168	170	172	174
	Mode (0-5)	167	169	171	173	175
HOLIDAY 17	Date (MMDD)	176				
	Start Time (HHMM)	177	179	181	183	185
	Mode (0-5)	178	180	182	184	186
HOLIDAY 18	Date (MMDD)	187				
	Start Time (HHMM)	188	190	192	194	196
	Mode (0-5)	189	191	193	195	197
HOLIDAY 19	Date (MMDD)	198				
	Start Time (HHMM)	199	201	203	205	207
	Mode (0-5)	200	202	204	206	208
HOLIDAY 20	Date (MMDD)	209				
	Start Time (HHMM)	210	212	214	216	218
	Mode (0-5)	211	213	215	217	219

Extended Holidays

200 :
PTN 1 Start Day

(all CPCs) - Version 2.0 or higher

Set up to 6 extended holidays in which the holiday lasts more than one day.

FF8 1 07 2 (00-11) Hold (MMDD) Hold

Address Nos. for Extended Holidays 1-6:
00=Extended Holiday1 Start Day
01=Extended Holiday1 End Day (inclusive)
02=Extended Holiday2 Start Day
03=Extended Holiday2 End Day (inclusive)
04=Extended Holiday3 Start Day
05=Extended Holiday3 End Day (inclusive)
06=Extended Holiday4 Start Day
07=Extended Holiday4 End Day (inclusive)
08=Extended Holiday5 Start Day
09=Extended Holiday5 End Day (inclusive)
10=Extended Holiday6 Start Day
11=Extended Holiday6 End Day (inclusive)

MMDD=Month/Day

Notes:

Examples of extended holidays include vacations, factory shutdowns, etc.

For extended holidays, the system will automatically switch to Night mode.

Related Programming:

Special Days of the Month

300 : 1st SUN Pattern

(all CPCs) - Version 2.0 or higher

Assign special days (e.g., Saturday) within any given month.
All Special Day possibilities (every day within the month) are included.

FF8 1 07 3 (00-34) Hold (0-3) Hold

Address Nos. for Special Days:
00=first occurrence of a Sunday within the month
01=first occurrence of a Monday within the month
...
06=first occurrence of a Saturday within the month
07-13=second occurrence of Sunday thru Saturday
14-20=third occurrence
21-27=fourth occurrence
28-34=fifth occurrence

(see table below)

0=(no pattern)
1=Weekdays (FF8 1 07 0 [00-09])
2=Weekend "A" (FF8 1 07 0 [10-19])
3=Weekend "B" (FF8 1 07 0 [20-29])

Notes:

An example of a Special Day of the Month is working half-day on the 2nd Saturday of each month.

Related Programming:

Weekdays (pg. 8-53) FF8 1 07 0 (00-09) Hold (HHMM or 0-5) Hold
Weekend "A" (pg. 8-54) FF8 1 07 0 (10-19) Hold (HHMM or 0-5) Hold
Weekend "B" (pg. 8-54) FF8 1 07 0 (20-29) Hold (HHMM or 0-2) Hold

Table 8-11. Special Days of the Month (FF8 1 07 3)

ADDRESSES FOR THESE DAYS OF THE WEEK:	-- SPECIAL DAY OCCURRENCE IN MONTH -- (e.g., 1st Sunday=address 00; 2nd Sunday=address 07)				
	1st	2nd	3rd	4th	5th
Sunday	00	07	14	21	28
Monday	01	08	15	22	29
Tuesday	02	09	16	23	30
Wednesday	03	10	17	24	31
Thursday	04	11	18	25	32
Friday	05	12	19	26	33
Saturday	06	13	20	27	34

FF8 1 08: Walking TRS Codes

Walking TRS Code

(all CPCs) - Version 2.0 or higher

Walking ID XXXX

Assign a 4-digit Walking TRS Code to each extension.

FF8 1 08 Hold (0-9999) Hold (4-digit Code) Hold

Extension No. Walking TRS Code (4 digits)

NOTE: The same Walking TRS Code can be assigned to multiple extensions.

Notes:

Walking TRS: End-users can make calls on other extensions that would normally block the call, by entering: Walking TRS Feature Access Code + user's own extension number + user's Walking TRS Code. The user can then access an exchange line and dial the call; the TRS Class assigned to the user's own extension (not the extension currently being used) will determine whether the dialled phone number is allowed or not. ON/OFF or hangup will return the phone to its normal state. A hookflash will keep the phone in Walking TRS mode.

In Call Logging reports, Walking TRS calls will be preceded by "Wxxxx" ("xxxx" is the extension number dialled).

Related Programming:

FF8 1 09: Call-Foward Destination

Call-Forward/Busy Destination Extension

XXXX-CFWD-Busy

(all CPCs) - Version 2.0 or higher

For each extension, assign another extension to receive its Call Forward/Busy calls.

FF8 1 09 0 Hold (0-9999) Hold (0-9999) Hold

Original Extension No.

Destination Extension No. for Call Forward/Busy

Notes:

(for Voice Mail) The Destination Extension No. can be the VPU Port Hunt Group Pilot No. assigned in FF5 1.

NOTE: This is not Permanent Call Forwarding! It is simply an easier way for the technician to program all extensions to call-forward/Busy to Voice Mail (for example) from the same phone, instead of setting it on each phone using the Feature Code (72 by default). When Call-Forward/Busy is changed or cancelled on the phone (either by re-dialling the Feature Code or by entering User Maintenance programming), the setting in the above address will change also.

Related Programming:

Extension COS: Call Forward-Busy (pg. 1-57) FF1 0 03 (00-15) 21 Hold (0 or 1) Hold
Extension Number Assignment (pg. 3-4) FF3 0 BSSC 02 Hold (0-9999) Hold
Extension COS Assignment (pg. 3-26) FF3 0 BSSC 07 Hold (1-16) Hold
Extension HG: Pilot Number (pg. 5-14) FF5 1 (01-72) 02 Hold (0-9999) Hold

Call-Forward/No Answer Destination Extension

XXXX-> CFWD-NoANS

(all CPCs) - Version 2.0 or higher

For each extension, assign another extension to receive its Call Forward/No Answer calls.

FF8 1 09 1 Hold (0-9999) Hold (0-9999) Hold

Original Extension No.

Destination Extension No. for Call Forward/No Answer

FF8 Maintenance

Notes:

(for Voice Mail) The Destination Extension No. can be the VPU Port Hunt Group Pilot No. assigned in FF5 1.

NOTE: This is not Permanent Call Forwarding! It is simply an easier way for the technician to program all extensions to call-forward/No-Answer to Voice Mail (for example) from the same phone, instead of setting it on each phone using the Feature Code (71 by default). When Call-Forward/No-Answer is changed or cancelled on the phone (either by re-dialling the Feature Code or by entering User Maintenance programming), the setting in the above address will change also.

Related Programming:

Extension COS: Call Forward-No Answer (pg. 1-56) FF1 0 03 (00-15) 20 Hold (0 or 1) Hold
Extension Number Assignment (pg. 3-4) FF3 0 BSSC 02 Hold (0-9999) Hold
Extension COS Assignment (pg. 3-26) FF3 0 BSSC 07 Hold (1-16) Hold
Extension HG: Pilot Number (pg. 5-14) FF5 1 (01-72) 02 Hold (0-9999) Hold

FF8 1 10: Caller ID Log Extensions

Caller ID Log Extensions

001 :
Enter EXT #

(all CPCs) - Version 2.0 or higher

Assign extensions that will have the Caller ID Log feature.

FF8 1 10 Hold Hold (001-120) Hold (0-9999) Hold

Entry No. (max. 120 entries)

Extension No. that will have the Caller ID Log feature

NOTE: Available range of Caller ID Log Extensions is determined by the CPC installed, and the number of CCUs specified in programming (see **0: System Configuration**).

CPC INSTALLED		NO. OF CCUS SPECIFIED IN PROGRAMMING					
(shaded cells not available with this CPC)	CPC-96:	1	2	3	4	5	6
	CPC-288:	1	2	3	4	5	6
	CPC-576:	1	2	3	4	5	6
max. Extensions:		20	40	60	80	100	120

Notes:

Caller ID Log: The last 5 Caller ID calls received at the phone can be displayed, and redialled by pressing the soft key next to the displayed call. On a Large Display phone, 5 log entries can be seen at a time. To toggle between screens, press the NEXT or PREV key.

Related Programming:

Caller ID Log Outgoing Control (pg. 1-20) FF1 0 01 0021 Hold (0 or 1) Hold
Caller ID Log Private/Out-of-Area Control (pg. 1-20) FF1 0 01 0022 Hold (0 or 1) Hold

FF8 Maintenance

Appendix A. Programming Structure

The following tables include all programming addresses and their defaults.

0: System Configuration (page 0-1)

0	System Config	Address No./Display		Position Entry		Available Settings	Defaults US	Defaults UK	Defaults CH	Page No.
		0	System Size			1-6 (cabinet no.)				0-5
		1	Card ID # for FS	BSS	(B=Cabinet 1-6) (SS=Free Slot 01-12)	1-82 (card type no.)				0-6
		2	Card ID # for OPt	BSS	(B=Cabinet 1-6) (SS=Option Slot 13-14)	1-82 (card type no.)				0-7

FF1 0: System Common (page 1-9)

FF1	System Program	0	General	Address No./Display		Address No./Display		Available Settings	Defaults US	Defaults UK	Defaults CH	Page No.
				01	General Part 1	0001	SPT for Voice	0:No 1:Yes	1	1	1	1-9
						0002	SPT for Paging	0:No 1:Yes	1	1	1	1-9
						0003	SPT Override 1	0:No 1:Yes	1	1	1	1-10
						0004	SPT Override 2	0:No 1:Yes	0	0	0	1-10
						0005	SPT for CONF	0:No 1:Yes	0	1	0	1-11
						0006	Exclusive Hold	0:No 1:Yes	1	1	1	1-11
						0007	Virtual CONT 1	0:LED unlit 1:LED lit	0	0	0	1-12
						0008	Virtual CONT 2	0:LED lit 1:LED unlit	1	1	1	1-13
						0009	Auto Floating	0:No 1:Yes	0	0	0	1-14
						0010	Virtual Hold	0:No 1:Yes	0	0	0	1-14
						0011	ON/OFF Control	0:No 1:Yes	0	0	0	1-15
						0012	PROG 1st Port	0:No 1:Yes	1	1	1	1-15
						0013	VM Key CONT 1	0:No 1:Yes	1	1	1	1-16
						0014	VM Key CONT 2	0:No 1:Yes	1	1	1	1-16
						0015	VM Key CONT 3	0:No 1:Yes	1	1	1	1-17
						0016	Off-Hook Monitor	0:No 1:Yes	1	1	1	1-17
						0017	Handset Mute	0:No 1:Yes	1	1	1	1-18
						0018	SLT HK CONT	0:hookflash 1:digit "1" outpulsed	0	0	0	1-18
						0019	ISDN Setup CONT	0:No 1:Yes	0	0	0	1-19
						0020	BLF Auto Assign	0:No 1:Yes	0	0	0	1-19
						0021	CID Log Dial	0:No 1:Yes	0	0	0	1-20
						0022	CID Logging CONT	0:No 1:Yes	1	1	1	1-20
						0023	24/12 Hours	0:24-hour format 1:12-hour format	1	1	1	1-21
				02	General Part 2	0001	TRK Numbering	0:2-digit 1:3-digit	0	0	0	1-22
						0002	SSD Numbering	0:2-digit 1:3-digit	1	1	1	1-22
						0003	SSD Type	0:all can use 1:MCO Tnt.Grp-assignable	0	0	0	1-23
						0004	Speed Dial Mode	0:No auto-trunk access 1:Yes	1	1	1	1-23
						0005	Pick-up V-call	0:No 1:Yes	0	0	0	1-24
						0006	Pick-up BLF	0:No 1:Yes	1	1	1	1-24
						0007	Day/Night Mode	0:System set 1:MCO Tenant Group set	0	0	0	1-25
						0008	EXT Step Call	0:No 1:Yes	0	0	0	1-26
						0009	TIE Step Call	0:No 1:Yes	0	0	0	1-26

FF1	System Program	0	General	Address No./Display		Address No./Display		Available Settings	Defaults US	Defaults UK	Defaults CH	Page No.
						0010	ARS/LCR	0:No ARS for MCO-1 1:ARS for MCO-1	0	0	0	1-27
						0011	Route Advance	0:No 1:Yes	0	0	0	1-27
						0012	Paging Override	0:No 1:Yes	1	1	1	1-28
						0013	TIE Paging CONT	0:No 1:Yes	0	0	0	1-29
						0014	Howler Tone	0:No 1:Yes	0	0	0	1-29
						0015	DISA Error #	0:Multi-incoming call 1:Disconnect call	0	0	0	1-30
						0016	DISA DGT T-Out	0:Multi-incoming call 1:Disconnect call	0	0	0	1-30
						0017	DISA No Answer	0:Multi-incoming call 1:Disconnect call	0	0	0	1-31
						0018	DDI Busy Day1	0:Busy signal 1:Normal call	0	0	0	1-31
						0019	DDI Busy Day2	0:Busy signal 1:Normal call	0	0	0	1-32
						0020	DDI Busy Night	0:Busy signal 1:Normal call	0	0	0	1-33
						0021	DDI Error Day1	0:Busy signal 1:Normal call	0	0	0	1-33
						0022	DDI Error Day2	0:Busy signal 1:Normal call	0	0	0	1-34
						0023	DDI Error Night	0:Busy signal 1:Normal call	0	0	0	1-34
				03	EXT COS NN = 00-15 (displays as COS 01-16)	NN01	NN:EXT Call Type	0:Tone 1:Voice	1	0	0	1-37
						NN02	NN:ON-HK RBT	0:Yes 1:No	0	0	0	1-38
						NN03	NN:ON-HK Talk	0:Yes 1:No	0	0	0	1-39
						NN04	NN:ON-HK Camp On	0:Yes 1:No	0	0	0	1-40
						NN05	NN:Hold Type-KTL	0:System Hold 1:Exclusive Hold	0	0	0	1-41
						NN06	NN:Hold Type SLT	0:System Hold 1:Exclusive Hold	0	0	0	1-42
						NN07	NN:Broker's Hold	0:3-Party Conference 1:Brokers Hold	1	1	1	1-43
						NN08	NN:SLT Hooking	0:Yes 1:No	0	0	0	1-44
						NN09	NN:SSD Assign	0:Yes 1:No	1	1	1	1-45
						NN10	NN:G.SSD Assign	0:Yes 1:No	1			1-46
						NN11	NN:SSD TRS	0:Yes 1:No	0	0	0	1-47
						NN12	NN:Redial Type	0:Yes 1:No	1	1	1	1-48
						NN13	NN:Designed CO	0:Yes 1:No	0	0	0	1-49
						NN14	NN:DESI MCO ANS	0:Yes 1:No	0	0	0	1-50
						NN15	NN:Paging	0:Yes 1:No	0	0	0	1-51
						NN16	NN:Auto REP Dial	0:Yes 1:No	0	0	0	1-52
						NN17	NN:DND	0:Yes 1:No	0	0	0	1-53
						NN18	NN:DND via Other	0:Yes 1:No	1	1	1	1-54
						NN19	NN:CFWD-All	0:Yes 1:No	0	0	0	1-55
						NN20	NN:CFWD-No ANS	0:Yes 1:No	0	0	0	1-56
						NN21	NN:CFWD-Busy	0:Yes 1:No	0	0	0	1-57
						NN22	NN:CF via Other	0:Yes 1:No	1	1	1	1-58
						NN23	NN:User Log-In	0:Yes 1:No	1	1	1	1-59
						NN24	NN:MSG Wait1	0:Yes 1:No	1	1	1	1-60
						NN25	NN:MSG Wait2	0:Yes 1:No	0	0	0	1-61
						NN26	NN:SYS Mode	0:Yes 1:No	1	1	1	1-62
						NN27	NN:INT Override	0:Yes 1:No	0	0	0	1-63
						NN28	NN:Camp On	0:Yes 1:No	0	0	0	1-64
						NN29	NN:Camped On	0:Yes 1:No	0	0	0	1-65
						NN30	NN:Call Back	0:Yes 1:No	0	0	0	1-66
						NN31	NN:Called Back	0:Yes 1:No	0	0	0	1-67
						NN32	NN:TRK Queuing	0:Yes 1:No	0	0	0	1-68
						NN33	NN:DND Override	0:Yes 1:No	1	1	1	1-69
						NN34	NN:DND Call	0:Yes 1:No	1	1	1	1-70
						NN35	NN:8 Party CONF	0:Yes 1:No	0	0	0	1-71
						NN36	NN:Voice Call	0:Yes 1:No	0	0	0	1-72
						NN37	NN:Voice Called	0:Yes 1:No	0	0	0	1-73

FF1	System Program	0	General	Address No./Display		Address No./Display		Available Settings	Defaults US	Defaults UK	Defaults CH	Page No.
						NN38	NN:DT Stop	0:No 1:Yes	1	1	1	1-74
						NN39	NN:DT Pre-Pause	0:No 1:Yes	1	1	1	1-75
						NN40	NN:LongTalk ALM	0:No 1:Yes	0	1	1	1-76
						NN41	NN:Recall Time	0:Recall to extension 1:Recall to Attendant	0	0	0	1-77
						NN42	NN:Forced ARS	0:No 1:Yes	0	0	0	1-78
						NN43	NN:API Event	0:No 1:Yes	1	1	1	1-79
						NN44	NN:CFWD Outside	0:Yes 1:No	0	0	0	1-80
						NN45	NN:ON-HK TKtoTK	0:Yes 1:No	1	1	1	1-81
						NN46	NN:C.Park Answer	0:Yes 1:No	0	0	0	1-82
						NN47	NN:C.Park TRF	0:Yes 1:No	0	0	0	1-83
						NN48	NN:OHVA	0:Yes 1:No	0	0	0	1-84
						NN49	NN:OHVA Answer	0:Yes 1:No	0	0	0	1-85
						NN50	NN:Call Wait ANS	0:Yes 1:No	0	0	0	1-86
						NN51	NN:On Hook Park??	0:Yes 1:No	0	0	0	1-87
				04	CO COS	NN01	NN:Ring Tone	0:CO 1:Intercom	0	0	0	1-88
						NN02	NN:DT CONT-TIE	0:No 1:Yes	1	1	1	1-89
						NN03	NN:FBT CONT-TIE	0:Fast-busy 1:Disconnect line	0	0	0	1-90
						NN04	NN:DID TBL	0:A-side table 1:B-side table	0	0	0	1-91
						NN05	NN:Paging TRS	0:No 1:Yes	0	0	0	1-92
						NN06	NN:Check DISA ID	0:Yes 1:No	0	0	0	1-93
				05	TTY Port Type	0001	P1:Data Format	0:7bits/Even/2stop 1:7bits/Odd/2stop 2:7bits/Even/1stop 3:7bits/Odd/1stop 4:8bits/None/2stop 5:8bits/None/1stop 6:8bits/Even/1stop 7:8bits/Odd/1stop	5	5	5	1-94
						0002	P1:Baud Rate	0:300bps 1:600bps 2:1200bps 3:2400bps 4:4800bps 5:9600bps	5	5	5	1-95
						0003	P1:Mode	0:No order 1:Originate 2:Answer	0	0	0	1-95
						0004	P1:Echo Control	0:Echo OFF 1:Echo ON	0	0	0	1-96
						0005	P1:Data Length	1-255 max. input digits	80	80	80	1-96
						0017	RAI:Data Format	0:7bits/Even/2stop 1:7bits/Odd/2stop 2:7bits/Even/1stop 3:7bits/Odd/1stop 4:8bits/None/2stop 5:8bits/None/1stop 6:8bits/Even/1stop 7:8bits/Odd/1stop	5	5	5	1-97
						0018	RAI:Baud Rate	0:300bps 1:600bps 2:1200bps 3:2400bps 4:4800bps 5:9600bps	3	3	3	1-97
						0019	RAI:Mode	0:No order 1:Originate 2:Answer	0	0	0	1-98
						0020	RAI:Echo Control	0:Echo OFF 1:Echo ON	0	0	0	1-98
						0021	RAI:Data Length	1-255 max. input digits	1	1	1	1-99
						0033	P2:Data Format	0:7bits/Even/2stop 1:7bits/Odd/2stop 2:7bits/Even/1stop 3:7bits/Odd/1stop 4:8bits/None/2stop 5:8bits/None/1stop 6:8bits/Even/1stop 7:8bits/Odd/1stop	5	5	5	1-99
						0034	P2:Baud Rate	0:300bps 1:600bps 2:1200bps 3:2400bps 4:4800bps 5:9600bps	5	5	5	1-100
						0035	P2:Mode	0:No order 1:Originate 2:Answer	0	0	0	1-100
						0036	P2:Echo Control	0:Echo OFF 1:Echo ON	0	0	0	1-101
						0037	P2:Data Length	1-255 max. input digits	80	80	80	1-101
				06	TTY Data Out Put	0001	SMDR Data	0:No 1:Port1 2:Port2	1	1	1	1-102
						0002	Sys Alarm Data	0:No 1:Port1 2:Port2	0	0	0	1-102
						0003	Program Data	0:No 1:Port1 2:Port2	2	2	2	1-103
						0004	Not Used					1-103
						0005	Bus Monitor (IN)	0:No 1:Port1 2:Port2	2	2	2	1-104
				07	Auto Pause	0001	PBX Pause for 1	0:None 1-16=insert pause after 1-16 digts	0	0	0	1-105
						0002	PBX Pause for 2	0:None 1-16=insert pause after 1-16 digts	0	0	0	1-105
						0003	PBX Pause for 3	0:None 1-16=insert pause after 1-16 digts	0	0	0	1-105

FF1	System Program	0	General	Address No./Display		Address No./Display		Available Settings	Defaults US	Defaults UK	Defaults CH	Page No.
						0004	PBX Pause for 4	0:None 1-16=insert pause after 1-16 digts	0	0	0	1-105
						0005	PBX Pause for 5	0:None 1-16=insert pause after 1-16 digts	0	0	0	1-105
						0006	PBX Pause for 6	0:None 1-16=insert pause after 1-16 digts	0	0	0	1-105
						0007	PBX Pause for 7	0:None 1-16=insert pause after 1-16 digts	0	0	0	1-105
						0008	PBX Pause for 8	0:None 1-16=insert pause after 1-16 digts	0	0	0	1-105
						0009	PBX Pause for 9	0:None 1-16=insert pause after 1-16 digts	1	1	1	1-105
						0010	PBX Pause for 0	0:None 1-16=insert pause after 1-16 digts	0	0	0	1-105
						0011	PBX Pause for *	0:None 1-16=insert pause after 1-16 digts	0	0	0	1-105
						0012	PBX Pause for #	0:None 1-16=insert pause after 1-16 digts	0	0	0	1-105
				08	PBX Access Code	0001	PBX Code 1	0-9999	9	9	9	1-106
						0002	PBX Code 2	0-9999	--	--	--	1-106
						0003	PBX Code 3	0-9999	--	--	--	1-106
						0004	PBX Code 4	0-9999	--	--	--	1-106
						0005	PBX Code 5	0-9999	--	--	--	1-106
						0006	PBX Code 6	0-9999	--	--	--	1-106
				09	SMDR Format	0001	SMDR Format	0:None 1:Format#1 2:Format#2	1	1	1	1-107
				10	EXT COS TRS	XXRR	TRS E.COSXX-->RR	0:Allow Ext.calling 1:Do not allow	0	0	0	1-108
						XX=sending Ext.COS 00-15 (displays as 01-16) RR=receiving Ext.COS 01-16						
				11	CO COS TRS	XXRR	TRS C.COSXX-->RR	0:Allow Trk-to-Trk calling 1:Do not allow	0	0	0	1-109
						XX=sending Trk.COS 00-15 (displays as 01-16) RR=receiving Trk.COS 01-16						
				12	CO MOH	0001	Tenant01 CO MOH	0:Internal tone 1:External source 2:Internal melody 3:Silence	0	0	0	1-110
						...	...					
						0072	Tenant72 CO MOH					
				13	TIE MOH	0001	Tenant01 TIE MOH	0:Internal tone 1:External source 2:Internal melody 3:Silence	0	0	0	1-111
						...	...					
						0072	Tenant72 TIE MOH					
				14	INT MOH	0001	Tenant01 EXT MOH	0:Internal tone 1:External source 2:Internal melody 3:Silence	0	0	0	1-112
						...	...					
						0072	Tenant72 EXT MOH					
				15	SSD For Tenant	0001	Tenant01 SSD BLK	00:None 01-72:SSD Block 1-72	01	01	01	1-113
						...	...					
						0072	Tenant72 SSD BLK					
				16	Common SSD	0001	Common SSD #	0:No common block 1-799:Highest SSD	0	0	0	1-114
				17	SSD Separation	0001	SSD BLK01 TOP #	0-799	0	0	0	1-114
						0002	SSD BLK01 Q'ty	0-800	80	80	80	1-114
						0003	SSD BLK02 TOP#	0-799	80	80	80	1-114
						0004	SSD BLK02 Q'ty	0-800	80	80	80	1-114
						0005	SSD BLK03 TOP#	0-799	160	160	160	1-114
						0006	SSD BLK03 Q'ty	0-800	80	80	80	1-114
						0007	SSD BLK04 TOP#	0-799	240	240	240	1-114
						0008	SSD BLK04 Q'ty	0-800	80	80	80	1-114
						0009	SSD BLK05 TOP#	0-799	320	320	320	1-114
						0010	SSD BLK05 Q'ty	0-800	80	80	80	1-114
						0011	SSD BLK06 TOP#	0-799	400	400	400	1-114
						0012	SSD BLK06 Q'ty	0-800	80	80	80	1-114
						0013	SSD BLK07 TOP#	0-799	480	480	480	1-114
						0014	SSD BLK07 Q'ty	0-800	80	80	80	1-114
						0015	SSD BLK08 TOP#	0-799	560	560	560	1-114

Appendix A

FF1	System Program	0	General	Address No./Display		Address No./Display		Available Settings	Defaults US	Defaults UK	Defaults CH	Page No.
						0016	SSD BLK08 Q'ty	0-800	80	80	80	1-114
						0017	SSD BLK09 TOP#	0-799	640	640	640	1-114
						0018	SSD BLK09 Q'ty	0-800	80	80	80	1-114
						0019	SSD BLK10 TOP#	0-799	720	720	720	1-114
						0020	SSD BLK10 Q'ty	0-800	80	80	80	1-114
						0021	SSD BLK11 TOP#	0-799	0	0	0	1-114
						...	...	...				1-114
						0144	SSD BLK72 Q'ty	0-800				1-114
				18	Digital CO Sync	0001	1st SYNC Clock	BSS/C (B:Cabinet 1-6) (SS:Slot 01-14) (C:Trk.Port 1-4)	--	--	--	1-116
						0002	2nd SYNC Clock	BSS/C (B:Cabinet 1-6) (SS:Slot 01-14) (C:Trk.Port 1-4)	--	--	--	1-116
						0003	3rd SYNC Clock	BSS/C (B:Cabinet 1-6) (SS:Slot 01-14) (C:Trk.Port 1-4)	--	--	--	1-116
				19	ID Code TRS	0001	TRS for F-ACCD	1-50	1	1	1	1-117
				20	Closed # Name	0001	Closed Display	0-4 (no. of digits)	0			1-118
				21	Alarm Ringing	0001	Ring ALM FREQ	0:No ring 1:400/562Hz 2:1000/1340Hz 3:400Hz 4:800/1040Hz 5:1040/1320Hz 6:660/1320Hz	1	1	1	1-119
						0002	Ring ALM PTRN	0:No ring 1-11:pattern, in seconds (5:.5on/.5off) 12:continuous tone (1:1on/2off)	5	5	5	1-120
				22	Program ID	0001	Program ID Code	0000-9999	9999			1-121
				23	VM Answer Dial	0001	VM Answer Dial	0000-9999	--	--	--	1-122
				24	VM TRF ID	0001	VM-TRF #1/Prefix	up to 10 char., including 0-9, *, #, Pause	--	--	--	1-122
						0002	VM-TRF #1/Suffix	up to 10 char., including 0-9, *, #, Pause	--	--	--	1-123
						0003	VM-TRF #2/Prefix	up to 8 char., including 0-9, *, #, Pause	--	--	--	1-123
						0004	VM-TRF #2/Suffix	up to 8 char., including 0-9, *, #, Pause	--	--	--	1-124
				25	CID Add-Dial	0001	CID Add-Dial	up to 4 char., including 0-9, *, #	--	--	--	1-125
				26	DISA ID Code	0001	DISA ID Digits	0: no code needed to get DISA service 1-10: 1-digit to 10-digit Codes	0	0	0	1-126
						0002	DISA01:ID Code	up to 10 digits, including 0-9, *, #	--	--	--	1-127
						0003	DISA01:TRS Class	0-50 (0:no TRS Class)	0	0	0	1-127
						0004	DISA02:ID Code	up to 10 digits, including 0-9, *, #	--	--	--	1-127
						0005	DISA02:TRS Class	0-50 (0:no TRS Class)	0	0	0	1-127
						...	...	...	...	...	...	1-127
						0033	DISA16:TRS Class	0-50 (0:no TRS Class)	0	0	0	1-127

FF1 1: System Timers (page 1-128)

FF1	System Program	1	Timer	Address No./Display		Address No./Display		Available Settings	Defaults US	Defaults UK	Defaults CH	Page No.
				01	Trunk Timer 1	0001	Flash Timer 1	1-225 (x16ms) (50:800ms)	50	5	50	1-128
						0002	Flash Timer 2	1-255 (x16ms) (5:80ms)	5	5	5	1-129
						0003	ARD Flash Timer	1-255 (x16ms) (124:1,984ms)	124	124	124	1-129
						0004	Pause Timer	1-255 (no. of seconds) (3:3 seconds)	3	3	3	1-130
						0005	Call Duration CO	0-255 (no. of seconds) (10:10 seconds)	10	10	10	1-131
						0006	Answer SIG TIE	0-255 (no. of seconds) (10:10 seconds)	10	10	10	1-131
						0007	Dial Delay CO	0-255 (no. of seconds) (3:3 seconds)	1	1	1	1-132
						0008	Dial Delay A-Tie	0-255 (no. of seconds) (1:1 second)	1	1	1	1-132
						0009	ISDN Pre-Pause	0-255 (no. of seconds) (30:30 seconds)	30	30	30	1-133
						0010	ISDN Interdigit	0-255 (no. of seconds) (10:10 seconds)	10	10	10	1-133
						0011	Not Used					1-134
						0012	Not Used					1-134

FF1	System Program	1	Timer	Address No./Display		Address No./Display		Available Settings	Defaults US	Defaults UK	Defaults CH	Page No.
						0013	Wink Wait A-TIE	0-255 (no. of seconds) (5:5 seconds)	5	5	5	1-134
						0014	ARD BT Start	0-255 (no. of seconds) (5:5 seconds)	5	5	5	1-135
						0015	ARD BT Timer	0-255 (no. of seconds) (30:30 seconds)	30	30	30	1-136
						0016	DTMF 1 ON Time	0-255 (x5ms) (16:80ms on)	16	16	16	1-136
						0017	DTMF 1 OFF Time	0-255 (x5ms) (16:80ms off)	16	16	16	1-137
						0018	DTMF2 ON/OFF	0-255 (x125ms) (1:125ms on/125ms off)	1	1	1	1-138
						0019	DTMF3 ON/OFF	0-255 (x125ms) (2:250ms on/250ms off)	2	2	2	1-139
				02	Trunk Timer 2	0001	DISA N-ANS1	0:5 seconds 1-255:no. of seconds (30:30 seconds)	30	30	30	1-140
						0002	DID/DISA N-ANS2	0:5 seconds 1-255:no. of seconds (16:16 seconds)	16	16	16	1-141
						0003	Delayed Day1	0:5 seconds 1-255:no. of seconds (20:20 seconds)	20	20	20	1-142
						0004	Delayed Day2	0:5 seconds 1-255:no. of seconds (20:20 seconds)	20	20	20	1-142
						0005	Delayed Night	0:5 seconds 1-255:no. of seconds (20:20 seconds)	20	0	0	1-143
						0006	DIL Busy Timer	0:continue queuing extension 1-255:no. of seconds (120:120 seconds)	120	120	120	1-144
						0007	Slide Day1	0:5 seconds 1-255:no. of seconds (20:20 seconds)	20	20	20	1-145
						0008	Slide Day2	0:5 seconds 1-255:no. of seconds (20:20 seconds)	20	20	20	1-146
						0009	Slide Night	0:5 seconds 1-255:no. of seconds (20:20 seconds)	20	20	20	1-146
						0010	Long Talk ALM 1	0:5 seconds 1-255:no. of seconds (180:180 seconds)	180	180	180	1-147
						0011	Long Talk ALM 2	0:5 seconds 1-255:no. of seconds (60:60 seconds)	60	60	60	1-148
						0012	Paging Time TIE	0:5 seconds 1-255:no. of seconds (30:30 seconds)	30	30	30	1-148
						0013	TRK to TRK Timer	0:allow indefinitely 1-255:no. of minutes (60:1 hour)	60	60	3	1-149
						0014	ARS Queuing	0:5 seconds 1-255:no. of seconds (15:15 seconds)	15	15	15	1-149
						0015	Delayed Via DID	0:no delayed ring 1-255:no. of seconds	20	20	20	1-150
				03	EXT Timer 1	0001	CFWD/DND Tone	0:no tone 1-255:no. of seconds (3:3 seconds)	3	3	3	1-151
						0002	MSG Wait Tone	0:no tone 1-255:no. of seconds (3:3 seconds)	3	3	3	1-151
						0003	Pre-Pause SLTDP	0:wait indefinitely 1-255:no. of seconds (30:30 seconds)	30	30	30	1-152
						0004	Pre-Pause SLTPB	0:wait indefinitely 1-255:no. of seconds (15:15 seconds)	15	15	15	1-153
						0005	Pre-Pause KTEL	0:wait indefinitely 1-255:no. of seconds	0	0	0	1-153
						0006	Interdigit SLTDP	0:wait indefinitely 1-255:no. of seconds (15:15 seconds)	15	15	15	1-154
						0007	Interdigit SLTPB	0:wait indefinitely 1-255:no. of seconds (15:15 seconds)	15	15	15	1-155
						0008	Interdigit KTEL	0:wait indefinitely 1-255:no. of seconds	0	0	0	1-155
						0009	DTMF/R SLT PB	0:immed.busy/re-order tone 1-255:no. of seconds (6:6 seconds)	6	6	6	1-156
						0010	Not Used					1-156
						0011	Not Used					1-156
						0012	SLT INCM on Busy	0:no off-hook signal 1-255:no. of seconds	10	10	10	1-157
						0013	BLF Delayed	0:no delayed ringing for BLF 1-255:no. of seconds	15	15	15	1-157

Appendix A

FF1	System Program	1	Timer	Address No./Display		Address No./Display		Available Settings	Defaults US	Defaults UK	Defaults CH	Page No.
				04	EXT Timer 2	0001	Hold RCL S-KTEL	0:no recall 1-255:no. of seconds (120:120 seconds)	120	120	60	1-158
						0002	Hold RCL S-ATTG	0:no recall 1-255:no. of seconds (120:120 seconds)	20	20	20	1-158
						0003	Hold RCL S-SLT	0:no recall 1-255:no. of seconds	0	0	0	1-159
						0004	TRF RCL S-EXT	0:no recall 1-255:no. of seconds (60:60 seconds)	60	60	60	1-159
						0005	TRF RCL S-ATTG	0:no recall 1-255:no. of seconds (20:20 seconds)	20	20	20	1-160
						0006	Hold/TRF Recall	0:recall indefinitely (no reversion) 1-255:no. of seconds (60:60 seconds)	60	60	60	1-161
						0007	Reversion Timer	0:ring indefinitely 1-255:no. of seconds	0	0	0	1-161
						0008	CF No-ANS Day 1	0:5 seconds 1-255:no. of seconds (16:16 seconds)	16	16	16	1-162
						0009	CF No-ANS Day 2	0:5 seconds 1-255:no. of seconds (16:16 seconds)	16	16	16	1-162
						0010	CF No-ANS Night	0:5 seconds 1-255:no. of seconds (16:16 seconds)	16	16	16	1-163
						0011	Callback Timer	0:5 seconds 1-255:no. of seconds (15:15 seconds)	15	15	15	1-163
						0012	Reminder Timer	0:5 seconds 1-255:no. of seconds (60:60 seconds)	16	16	16	1-164
						0013	Reminder Recall	0:5 seconds 1-255:no. of seconds (180:180 seconds)	180	180	180	1-165
						0014	Not Used					1-165
						0015	Not Used					1-165
						0016	Howler Start	0:5 seconds 1-255:no. of seconds (30:30 seconds)	30	30	30	1-166
						0017	Call Park Recall	0:no recall 1-255:no. of seconds	180	180	180	1-166

FF1 2: Dial Plan (page 1-167)

FF1	System Program	2	Dial Plan	Address No./Display		Address No./Display		Available Settings	Defaults US	Defaults UK	Defaults CH	Page No.
				01	Dial Digits	0001	Dial1 Digit Max	1-4 (maximum no. of digits @ 1st dial "1")	4	4	4	1-167
						0002	Dial1 Digit Min	1-4 (minimum no. of digits @ 1st dial "1")	2	2	2	1-167
						0003	Dial2 Digit Max	1-4 (maximum no. of digits @ 1st dial "2")	4	4	4	1-167
						0004	Dial2 Digit Min	1-4 (minimum no. of digits @ 1st dial "2")	2	2	2	1-167
						0005	Dial3 Digit Max	1-4 (maximum no. of digits @ 1st dial "3")	4	4	4	1-167
						0006	Dial3 Digit Min	1-4 (minimum no. of digits @ 1st dial "3")	2	2	2	1-167
						0007	Dial4 Digit Max	1-4 (maximum no. of digits @ 1st dial "4")	4	4	4	1-167
						0008	Dial4 Digit Min	1-4 (minimum no. of digits @ 1st dial "4")	2	2	2	1-167
						0009	Dial5 Digit Max	1-4 (maximum no. of digits @ 1st dial "5")	4	4	4	1-167
						0010	Dial5 Digit Min	1-4 (minimum no. of digits @ 1st dial "5")	2	2	2	1-167
						0011	Dial6 Digit Max	1-4 (maximum no. of digits @ 1st dial "6")	4	4	4	1-167
						0012	Dial6 Digit Min	1-4 (minimum no. of digits @ 1st dial "6")	2	2	2	1-167
						0013	Dial7 Digit Max	1-4 (maximum no. of digits @ 1st dial "7")	3	3	3	1-167
						0014	Dial7 Digit Min	1-4 (minimum no. of digits @ 1st dial "7")	3	3	3	1-167
						0015	Dial8 Digit Max	1-4 (maximum no. of digits @ 1st dial "8")	2	2	2	1-167
						0016	Dial8 Digit Min	1-4 (minimum no. of digits @ 1st dial "8")	2	2	2	1-167
						0017	Dial9 Digit Max	1-4 (maximum no. of digits @ 1st dial "9")	1	1	1	1-167
						0018	Dial9 Digit Min	1-4 (minimum no. of digits @ 1st dial "9")	1	1	1	1-167
						0019	Dial0 Digit Max	1-4 (maximum no. of digits @ 1st dial "0")	1	1	1	1-167
						0020	Dial0 Digit Min	1-4 (minimum no. of digits @ 1st dial "0")	1	1	1	1-167

FF1	System Program	2	Dial Plan	Address No./Display		Address No./Display		Available Settings	Defaults US	Defaults UK	Defaults CH	Page No.
						0021	Dial* Digit Max	1-4 (maximum no. of digits @ 1st dial "*")	3	3	3	1-167
						0022	Dial* Digit Min	1-4 (minimum no. of digits @ 1st dial "*")	2	2	2	1-167
						0023	Dial# Digit Max	1-4 (maximum no. of digits @ 1st dial "#")	2	2	2	1-167
						0024	Dial# Digit Min	1-4 (minimum no. of digits @ 1st dial "#")	1	1	1	1-167
				02	Dial Plan1(DT)	0001	DT1-SD Access	Speed Dial Originate code	80	80	80	1-168
						0002	DT1-SD Assign	Speed Dial Set code	710	710	710	1-168
						0003	DT1-SLT Redial	SLT Redial code	712	712	712	1-168
						0004	DT1-MCO1 Access	MCO-1 Trunk Selection code	9	9	9	1-168
						0005	DT1-MCO2 Access	MCO-2 Trunk Selection code	81	81	81	1-168
						0006	DT1-MCO3 Access	MCO-3 Trunk Selection code	82	82	82	1-168
						0007	DT1-MCO4 Access	MCO-4 Trunk Selection code	83	83	83	1-168
						0008	DT1-MCO5 Access	MCO-5 Trunk Selection code	84	84	84	1-168
						0009	DT1-TRK Access	Specified Trunk Access code	88	88	88	1-168
						0010	DT1-Flash Send	SLT Flash Send to CO	765	765	765	1-168
						0011	DT1-M. Wait High	Message Waiting Set code	*41	*41	*41	1-168
						0012	DT1-M. Wait CLR	Message Waiting Cancel code	*5	*5	*5	1-168
						0013	DT1-M. Wait Back	Message Waiting Callback code	*6	*6	*6	1-168
						0014	DT1-MW H CLR Via	Priority Message Waiting Cancel code	*49	*49	*49	1-168
						0015	DT1-CF.All Set	Call Forward/All Set code	721	721	721	1-168
						0016	DT1-CF.All CLR	Call Forward/All Cancel code	731	731	731	1-168
						0017	DT1-CF.All S Via	Call Forward/All Set @ Other Ext. code	741	741	741	1-168
						0018	DT1-CF.All C Via	Call Forward/All Cancel @ Other Ext. code	751	751	751	1-168
						0019	DT1-CF.Busy Set	Call Forward/Busy Set code	722	722	722	1-168
						0020	DT1-CF.Busy CLR	Call Forward/Busy Cancel code	732	732	732	1-168
						0021	DT1-CF.B S Via	Call Forward/Busy Set @ Other Ext. code	742	742	742	1-168
						0022	DT1-CF.B C Via	Call Forward/Busy Cancel @ Other Ext.	752	752	752	1-168
						0023	DT1-CF.N-ANS Set	Call Forward/No Answer Set code	723	723	723	1-168
						0024	DT1-CF.N-ANS CLR	Call Forward/No Answer Cancel code	733	733	733	1-168
						0025	DT1-CF.N-A S Via	Call Forward/No Answer Set @ Other Ext.	743	743	743	1-168
						0026	DT1-CF.N-A C Via	Call Forward/No Answer Cancel @Oth.Ext.	753	753	753	1-168
						0027	DT1-DND Set/CLR	DND Set/Cancel code	720	720	720	1-168
						0028	DT1-DND Set Via	DND Set @ Other Ext. code	740	740	740	1-168
						0029	DT1-DND CLR Via	DND Cancel @ Other Ext. code	750	750	750	1-168
						0030	DT1-CF/DND CLR	Call Forward/DND Cancel code	7**	7**	7**	1-168
						0031	DT1-Reminder Set	Timed Reminder Set code	*31	*31	*31	1-168
						0032	DT1-Reminder CLR	Timed Reminder Cancel code	*39	*39	*39	1-168
						0033	DT1-BGM Set/CLR	BGM Set/Cancel code	*30	*30	*30	1-168
						0034	DT1-Day1<–>Night	Day/Night Mode Set code	760	760	760	1-168
						0035	DT1-Day2	Day2 Mode Set code	761	761	761	1-168
						0036	DT1-Night(1)	Night2 Mode Set code	762	762	762	1-168
						0037	DT1-Night(2)	Night3 Mode Set code	763	763	763	1-168
						0038	DT1-Meet Me ANS	Paging Answer code	##	##	##	1-168
						0039	DT1-Paging	Paging code	#	#	#	1-168
						0040	DT1-G. Pickup	Same Group Call Pickup code	701	701	701	1-168
						0041	DT1-G. Pickup CO	Same Group Call Pickup (CO Calls) code	702	702	702	1-168
						0042	DT1-O. G. Pickup	Specified Group Call Pickup code	703	703	703	1-168
						0043	DT1-D. Pickup	Direct Call Pickup code	704	704	704	1-168
						0044	DT1-MCO Answer	MCO Incoming Call Answer code	709	709	709	1-168
						0045	DT1-Virtual ANS	Specified Floating Hold Answer code	*9	*9	*9	1-168
						0046	DT1-TRK Answer	Specified Trunk Answer code	*0	*0	*0	1-168
						0047	DT1-Account Code	Account Code Set code	8#	8#	8#	1-168

FF1	System Program	2	Dial Plan	Address No./Display		Address No./Display		Available Settings	Defaults US	Defaults UK	Defaults CH	Page No.
						0048	DT1-CF ID Set	VM Call Forward ID Code Set	715	715	715	1-168
						0049	DT1-VM Access	VM Message Code Set	716	716	716	1-168
						0050	DT1-Remote MAINT	Remote Maintenance code	799	799	799	1-168
						0051	DT1-8Party CONF	8-Party Conference code	788	788	788	1-168
						0052	DT1-Walking TRS	Walking TRS Access Code	87	87	87	1-168
						0053	DT1-C.Park Hold	Station Call Park	771	771	771	1-168
						0054	DT1-C.Park ANS1	Station Call Park Answer Code #1 (own?)	772	772	772	1-168
						0055	DT1-C.Park ANS2	Station Call Park Answer Code #2 (other?)	773	773	773	1-168
						0056	DT1-C.Park TRF	Station Call Park Transfer Code	774	774	774	1-168
				03	Dial Plan2(DT)	0001	DT2-SD Access	same as 02: Dial Plan1(DT) (see above)				1-170
						...	...					
						0056	DT2-C.Park TRF					
				04	Dial Plan1(RBT)	0001	RBT1-Voice Call	Voice Call code	1	1	1	1-172
						0002	RBT1-M. Wait Low	Message Waiting (Normal) code	4	4	4	1-146
						0003	RBT1-M. Wait High	Message Waiting (Priority, for VM) code	5	5	5	1-146
						0004	RBT1-Not Used					1-146
						...						
						0010						
				05	Dial Plan2(RBT)	0001	RBT2-Voice Call	Voice Call code	1	1	1	1-173
						0002	RBT2-M. Wait Low	Message Waiting (Normal) code	4	4	4	1-146
						0003	RBT2-M. Wait High	Message Waiting (Priority, for VM) code	5	5	5	1-146
						0004	RBT2-Not Used					1-146
						...						
						0010						
				06	Dial Plan1(BT)	0001	BT1-Callback	CO Queuing & Intercom Callback Request	3	3	3	1-174
						0002	BT1-Camp-On	Camp-On code	2	2	2	1-174
						0003	BT1-M. Wait Low	Message Waiting (Normal) code	4	4	4	1-174
						0004	RBT1-M. Wait High	Message Waiting (Priority, for VM) code	5	5	5	1-174
						0005	BT1-B. Override	Busy Override	9	9	9	1-174
						0006	BT1-OHVA	OHVA Access Code	8	8	8	1-174
						0007	BT1-Not Used					1-174
						...						
						0010						
				07	Dial Plan2(BT)	0001	BT2-Callback	CO Queuing & Intercom Callback Request	3	3	3	1-175
						0002	BT2-Camp-On	Camp-On code	2	2	2	1-175
						0003	BT2-M. Wait Low	Message Waiting (Normal) code	4	4	4	1-175
						0004	BT2-M. Wait High	Message Waiting (Priority, for VM) code	5	5	5	1-175
						0005	BT2-B. Override	Busy Override	9	9	9	1-175
						0006	BT2-OHVA	OHVA Access Code	8	8	8	1-175
						0007	BT2-Not Used					1-175
						...						
						0010						

FF1 3: MCO Access (page 1-176)

FF1	System Program	3	MCO	*Address No./Display*		*Address No./Display*		*Available Settings*	*Defaults*			*Page No.*
									US	*UK*	*CH*	
				01	MCO Outgoing	0001	Tenant01 MCO1 TG	0:none 1-99 (TrunkGrp) or 1-72 (TrunkGrp Chain)	1	1	1	1-177
						0002	Tenant01 MCO2 TG	0:none 1-99 (TrunkGrp) or 1-72 (TrunkGrp Chain)	0	0	0	1-177
						0003	Tenant01 MCO3 TG	0:none 1-99 (TrunkGrp) or 1-72 (TrunkGrp Chain)	0	0	0	1-177
						0004	Tenant01 MCO4 TG	0:none 1-99 (TrunkGrp) or 1-72 (TrunkGrp Chain)	0	0	0	1-177
						0005	Tenant01 MCO5 TG	0:none 1-99 (TrunkGrp) or 1-72 (TrunkGrp Chain)	0	0	0	1-177
						0006	Tenant02 MCO1 TG	0:none 1-99 (TrunkGrp) or 1-72 (TrunkGrp Chain)	2	2	2	1-177
						0007	Tenant02 MCO2 TG	0:none 1-99 (TrunkGrp) or 1-72 (TrunkGrp Chain)	0	0	0	1-177
						0008	Tenant02 MCO3 TG	0:none 1-99 (TrunkGrp) or 1-72 (TrunkGrp Chain)	0	0	0	1-177
						0009	Tenant02 MCO4 TG	0:none 1-99 (TrunkGrp) or 1-72 (TrunkGrp Chain)	0	0	0	1-177
						0010	Tenant02 MCO5 TG	0:none 1-99 (TrunkGrp) or 1-72 (TrunkGrp Chain)	0	0	0	1-177
						0011	Tenant03 MCO1 TG	0:none 1-99 (TrunkGrp) or 1-72 (TrunkGrp Chain)	3	3	3	1-177
						...	...	...	...	...	...	1-177
						0360	Tenant72 MCO5 TG	0:none 1-99 (TrunkGrp) or 1-72 (TrunkGrp Chain)	0	0	0	1-177
				02	MCO Group List	0001	Tenant01 1st TG	0:none 1-99:Trunk Group	0	0	0	1-179
						0002	Tenant01 2nd TG	0:none 1-99:Trunk Group	0	0	0	1-179
						0003	Tenant01 3rd TG	0:none 1-99:Trunk Group	0	0	0	1-179
						0004	Tenant01 4th TG	0:none 1-99:Trunk Group	0	0	0	1-179
						0005	Tenant01 5th TG	0:none 1-99:Trunk Group	0	0	0	1-179
						0006	Tenant02 1st TG	0:none 1-99:Trunk Group	0	0	0	1-179
						....	...	...	...	...	...	1-179
						0360	Tenant72 5th TG	0:none 1-99:Trunk Group	0	0	0	1-179
				03	MCO Incoming	0001	Tenant01 In-MCO	1-99 (Trunk Group)	1	1	1	1-181
						0002	Tenant02 In-MCO	1-99 (Trunk Group)	2	2	2	1-181
						0003	Tenant03 In-MCO	1-99 (Trunk Group)	3	3	3	1-181
						...	...	...	...	...	...	1-181
						0072	Tenant72 In-MCO	1-99 (Trunk Group)	72	72	72	1-181

FF1 4: DDI/CLI (page 1-183)

FF1	System Program	4	DDI/CLI	Address No./Display		Address No./Display		Available Settings	Defaults US	Defaults UK	Defaults CH	Page No.
				01	A-Number of DGT	0001	A-Receive Digit	1-4 digits	4	4	4	1-183
				02	A-Change Table	0001	A001-RCV DGT #	0-9999 (DDI/CLI No.)	0	0	0	1-184
						0002	A001-DEST. Day	0-9999 (Ext./Virtual/Closed No.)	0	0	0	1-184
						0003	A001-DEST. Night	0-9999 (Ext./Virtual/Closed No.)	0	0	0	1-184
						0004	A001-Delayed Day	0-9999 (Ext./Virtual/Closed No.)	0	0	0	1-184
						0005	A001-Delayed NGT	0-9999 (Ext./Virtual/Closed No.)	0	0	0	1-184
						0006	A001-Tenant G	1-72 (Tenant Group No.)	0	0	0	1-184
						0011	A002-RCV DGT #	0-9999 (DDI/CLI No.)	0	0	0	1-184
						0012	A002-DEST. Day	0-9999 (Ext.No. or Closed No.)	0	0	0	1-184
						0013	A002-DEST. Night	0-9999 (Ext.No. or Closed No.)	0	0	0	1-184
						0014	A002-Delayed Day	0-9999 (Ext./Virtual/Closed No.)	0	0	0	1-184
						0015	A002-Delayed NGT	0-9999 (Ext./Virtual/Closed No.)	0	0	0	1-184
						0016	A002-Tenant G	1-72 (Tenant Group No.)	0	0	0	1-184
						0021	A003-RCV DGT #	0-9999 (DDI/CLI No.)	0	0	0	1-184
						...	...	...	...	...	...	1-184
						5756	A576-Tenant G	1-72 (Tenant Group No.)	0	0	0	1-184
				03	B-Number of DGT	0001	B-Receive Digit	1-4 digits	4	4	4	1-186
				04	B-Change Table	0001	B001-RCV DGT #	0-9999 (DDI/CLI No.)	0	0	0	1-186
						0002	B001-DEST. Day	0-9999 (Ext./Virtual/Closed No.)	0	0	0	1-186
						0003	B001-DEST. Night	0-9999 (Ext./Virtual/Closed No.)	0	0	0	1-186
						0004	B001-Delayed Day	0-9999 (Ext./Virtual/Closed No.)	0	0	0	1-186
						0005	B001-Delayed NGT	0-9999 (Ext./Virtual/Closed No.)	0	0	0	1-186
						0006	B001-Tenant G	1-72 (Tenant Group No.)	0	0	0	1-186
						0011	B002-RCV DGT #	0-9999 (DDI/CLI No.)	0	0	0	1-186
						0012	B002-DEST. Day	0-9999 (Ext./Virtual/Closed No.)	0	0	0	1-186
						0013	B002-DEST. Night	0-9999 (Ext./Virtual/Closed No.)	0	0	0	1-186
						0014	B002-Delayed Day	0-9999 (Ext./Virtual/Closed No.)	0	0	0	1-186
						0015	B002-Delayed NGT	0-9999 (Ext./Virtual/Closed No.)	0	0	0	1-186
						0016	B002-Tenant G	1-72 (Tenant Group No.)	0	0	0	1-186
						0021	B003-RCV DGT #	0-9999 (DDI/CLI No.)	0	0	0	1-186
						...	...	...	...	...	...	1-186
						5756	B576-Tenant G	1-72 (Tenant Group No.)	0	0	0	1-186
				05	ISDN DDI Table	0001	001 S-P DGT #	0-9999 (S-Point DDI No.)	--	--	--	1-189
						0002	001 Destination	0-9999 (DDI Extension No.)	--	--	--	1-189
						0003	002 S-P DGT#	0-9999 (S-Point DDI No.)	--	--	--	1-189
						0004	002 Destination	0-9999 (DDI Extension No.)	--	--	--	1-189
						0005	003 S-P DGT#	0-9999 (S-Point DDI No.)	--	--	--	1-189
						...	...	...	...	...	...	1-189
						0192	096 Destination	0-9999 (DDI Extension No.)	--	--	--	1-189
				06	VM-ID Control	0001	Auto DID Dial	0:Do not send 1:Send entire DDI No. 2:Send last 2 digits 3:Send last 3 digits	0	0	0	1-191
						0002	DID VM-ID/Prefix	up to 8 char. (0-9, *, #, Pause)	--	--	--	1-191
						0003	DID VM-ID/Suffix	up to 8 char. (0-9, *, #, Pause)	--	--	--	1-192

FF1 5: Not Used (page 1-192)

FF1 6: Not Used (page 1-192)

FF1 7: Not Used (page 1-192)

FF1 8: Digital Pad Settings (page 1-193)

FF1	System Program	8	Digital Pad	*Address No./Display*		*Address No./Display*		*Available Settings*	*Defaults* US	UK	CH	*Page No.*
				01	Extension PAD	0001	ECLS01-ECLS01	0-31: 0=0dB 16=0 dB 1=–2dB 17=+2dB 2=–4dB 18=+4dB 3=–6dB 19=+6dB 4=–8dB 20=+8dB 5=–10dB 21=+10dB 6=–12dB 22=+12dB 7=–14dB 23=+14dB 8=–16dB 24=+16dB 9=–18dB 25=+18dB 10=–20dB 26=+20dB 11=–22dB 27=+22dB 12=–24dB 28=+24dB 13=–26dB 29=+26dB 14=–28dB 30=+28dB 15=–30dB 31=+30dB	4	4	4	1-193
						0002	ECLS01-ECLS02		4	4	4	1-193
						0003	ECLS01-ECLS03		0	0	0	1-193
						0004	ECLS01-ECLS04		18	18	18	1-193
						0005	ECLS01-ECLS05		18	18	18	1-193
						0006	ECLS01-ECLS06		0	0	0	1-193
						0007	ECLS01-ECLS07		0	0	0	1-193
						0008	ECLS01-ECLS08		0	0	0	1-193
						0009	ECLS01-TCLS01		0	0	0	1-193
						0010	ECLS01-TCLS02		0	0	0	1-193
						0011	ECLS01-TCLS03		0	0	0	1-193
						0012	ECLS01-TCLS04		0	0	0	1-193
						0013	ECLS01-TCLS05		0	0	0	1-193
						0014	ECLS01-TCLS06		0	0	0	1-193
						0015	ECLS01-TCLS07		2	2	2	1-193
						0016	ECLS01-TCLS08		2	2	2	1-193
						0017	ECLS01-TCLS09		2	2	2	1-193
						0018	ECLS01-TCLS10		0	0	0	1-193
						0019	ECLS01-TCLS11		2	2	2	1-193
						0020	ECLS01-TCLS12		0	0	0	1-193
						0021	ECLS01-TCLS13		0	0	0	1-193
						0022	ECLS01-TCLS14		2	2	2	1-193
						0023	ECLS01-TCLS15		4	4	4	1-193
						0024	ECLS01-TCLS16		0	0	0	1-193
						0025	ECLS01-3 CONF		2	2	2	1-193
						0026	ECLS01-Page		2	2	2	1-193
						0027	ECLS01-DTMFR		2	2	2	1-193
						0028	ECLS01-RAI		0	0	0	1-193
						0029	ECLS01-8 CONF		2	2	2	1-193
						0030	ECLS01-Not Used					1-193
						0031	ECLS02-ECLS01	(same as above)	(see table, pg. 1-194)			1-193
						...	...					1-193
						0060	ECLS02-Not Used					1-193
						0061	ECLS03-ECLS01	(same as above)	(see table, pg. 1-194)			1-193
						...	...					1-193
						0090	ECLS03-Not Used					1-193
						0091	ECLS04-ECLS01	(same as above)	(see table, pg. 1-194)			1-193
						...	...					1-193
						0120	ECLS04-Not Used					1-193
						0121	ECLS05-ECLS01	(same as above)	(see table, pg. 1-194)			1-193
						...	...					1-193
						0150	ECLS05-Not Used					1-193
						0151	ECLS06-ECLS01	(same as above)	(see table, pg. 1-194)			1-193
						...	...					1-193
						0180	ECLS06-Not Used					1-193
						0181	ECLS07-ECLS01	(same as above)	(see table, pg. 1-194)			1-193
						...	...					1-193
						0210	ECLS07-Not Used					1-193

Appendix A

FF1	System Program	8	Digital Pad	Address No./Display		Address No./Display		Available Settings	Defaults US	Defaults UK	Defaults CH	Page No.
						0211	ECLS08-ECLS01					1-193
						...	...	(same as above)	(see table, pg. 1-194)			1-193
						0240	ECLS08-Not Used					1-193
				02	Trunk PAD	0001	TCLS01-ECLS01	0-31: 0=0dB 1=–2dB 2=–4dB 3=–6dB 4=–8dB 5=–10dB 6=–12dB 7=–14dB 8=–16dB 9=–18dB 10=–20dB 11=–22dB 12=–24dB 13=–26dB 14=–28dB 15=–30dB 16=0 dB 17=+2dB 18=+4dB 19=+6dB 20=+8dB 21=+10dB 22=+12dB 23=+14dB 24=+16dB 25=+18dB 26=+20dB 27=+22dB 28=+24dB 29=+26dB 30=+28dB 31=+30dB	0	0	0	1-195
						0002	TCLS01-ECLS02		0	0	0	1-195
						0003	TCLS01-ECLS03		20	20	20	1-195
						0004	TCLS01-ECLS04		22	22	22	1-195
						0005	TCLS01-ECLS05		22	22	22	1-195
						0006	TCLS01-ECLS06		20	20	20	1-195
						0007	TCLS01-ECLS07		20	20	20	1-195
						0008	TCLS01-ECLS08		0	0	0	1-195
						0009	TCLS01-TCLS01		18	18	18	1-195
						0010	TCLS01-TCLS02		18	18	18	1-195
						0011	TCLS01-TCLS03		0	0	0	1-195
						0012	TCLS01-TCLS04		0	0	0	1-195
						0013	TCLS01-TCLS05		0	0	0	1-195
						0014	TCLS01-TCLS06		0	0	0	1-195
						0015	TCLS01-TCLS07		18	18	18	1-195
						0016	TCLS01-TCLS08		18	18	18	1-195
						0017	TCLS01-TCLS09		18	18	18	1-195
						0018	TCLS01-TCLS10		0	0	0	1-195
						0019	TCLS01-TCLS11		18	18	18	1-195
						0020	TCLS01-TCLS12		0	0	0	1-195
						0021	TCLS01-TCLS13		20	20	20	1-195
						0022	TCLS01-TCLS14		18	18	18	1-195
						0023	TCLS01-TCLS15		0	0	0	1-195
						0024	TCLS01-TCLS16		0	0	0	1-195
						0025	TCLS01-3 CONF		17	17	17	1-195
						0026	TCLS01-Page		20	20	20	1-195
						0027	TCLS01-DTMFR		17	17	17	1-195
						0028	TCLS01-RAI		0	0	0	1-195
						0029	TCLS01-8 CONF		17	17	17	1-195
						0030	TCLS01-Not Used					1-195
						0031	TCLS02-ECLS01					1-195
						...	...	(same as above)	(see table, pg. 1-196)			1-195
						0060	TCLS02-Not Used					1-195
						0061	TCLS03-ECLS01					1-195
						...	...	(same as above)	(see table, pg. 1-196)			1-195
						0090	TCLS03-Not Used					1-195
						0091	TCLS04-ECLS01					1-195
						...	...	(same as above)	(see table, pg. 1-196)			1-195
						0120	TCLS04-Not Used					1-195
						0121	TCLS05-ECLS01					1-195
						...	...	(same as above)	(see table, pg. 1-196)			1-195
						0150	TCLS05-Not Used					1-195
						0151	TCLS06-ECLS01					1-195
						...	...	(same as above)	(see table, pg. 1-196)			1-195
						0180	TCLS06-Not Used					1-195
						0181	TCLS07-ECLS01					1-195
						...	...	(same as above)	(see table, pg. 1-196)			1-195
						0210	TCLS07-Not Used					1-195

Appendix A

FF1	System Program	8	Digital Pad	Address No./Display		Address No./Display		Available Settings	Defaults US	Defaults UK	Defaults CH	Page No.
						0211	TCLS08-ECLS01					1-195
						...	...	(same as above)	(see table, pg. 1-196)			1-195
						0240	TCLS08-Not Used					1-195
						0241	TCLS09-ECLS01					1-195
						...	...	(same as above)	(see table, pg. 1-197)			1-195
						0270	TCLS09-Not Used					1-195
						0271	TCLS10-ECLS01					1-195
						...	...	(same as above)	(see table, pg. 1-197)			1-195
						0300	TCLS10-Not Used					1-195
						0301	TCLS11-ECLS01					1-195
						...	...	(same as above)	(see table, pg. 1-197)			1-195
						0330	TCLS11-Not Used					1-195
						0331	TCLS12-ECLS01					1-195
						...	...	(same as above)	(see table, pg. 1-197)			1-195
						0360	TCLS12-Not Used					1-195
						0361	TCLS13-ECLS01					1-195
						...	...	(same as above)	(see table, pg. 1-197)			1-195
						0390	TCLS13-Not Used					1-195
						0391	TCLS14-ECLS01					1-195
						...	...	(same as above)	(see table, pg. 1-197)			1-195
						0420	TCLS14-Not Used					1-195
						0421	TCLS15-ECLS01					1-195
						...	...	(same as above)	(see table, pg. 1-197)			1-195
						0450	TCLS15-Not Used					1-195
						0451	TCLS16-ECLS01					1-195
						...	...	(same as above)	(see table, pg. 1-197)			1-195
						0480	TCLS16-Not Used					1-195
				03	BGM PAD	0001	BGM-ECLS01	0-31:	0	0	0	1-198
						0002	BGM-ECLS02	0=0dB 16=0 dB 1=–2dB 17=+2dB	17	17	17	1-198
						0003	BGM-ECLS03	2=–4dB 18=+4dB	0	0	0	1-198
						0004	BGM-ECLS04	3=–6dB 19=+6dB 4=–8dB 20=+8dB	0	0	0	1-198
						0005	BGM-ECLS05	5=–10dB 21=+10dB	0	0	0	1-198
						0006	BGM-ECLS06	6=–12dB 22=+12dB	0	0	0	1-198
						0007	BGM-ECLS07	7=–14dB 23=+14dB 8=–16dB 24=+16dB	0	0	0	1-198
						0008	BGM-ECLS08	9=–18dB 25=+18dB 10=–20dB 26=+20dB 11=–22dB 27=+22dB 12=–24dB 28=+24dB 13=–26dB 29=+26dB 14=–28dB 30=+28dB 15=–30dB 31=+30dB	0	0	0	1-198
				04	E. Paging Pad	0001	Paging - ECLS01	0-31:	0	0	0	1-199
						0002	Paging - ECLS02	0=0dB 16=0 dB 1=–2dB 17=+2dB	17	17	17	1-199
						0003	Paging - ECLS03	2=–4dB 18=+4dB	0	0	0	1-199
						0004	Paging - ECLS04	3=–6dB 19=+6dB 4=–8dB 20=+8dB	0	0	0	1-199
						0005	Paging - ECLS05	5=–10dB 21=+10dB	0	0	0	1-199
						0006	Paging - ECLS06	6=–12dB 22=+12dB	4	4	4	1-199
						0007	Paging - ECLS07	7=–14dB 23=+14dB 8=–16dB 24=+16dB	0	0	0	1-199
						0008	Paging - ECLS08	9=–18dB 25=+18dB 10=–20dB 26=+20dB	0	0	0	1-199
						0009	Paging - TCLS01	11=–22dB 27=+22dB	0	0	0	1-199
						0010	Paging - TCLS02	12=–24dB 28=+24dB 13=–26dB 29=+26dB	19	19	19	1-199
						0011	Paging - TCLS03	14=–28dB 30=+28dB	0	0	0	1-199
						0012	Paging - TCLS04	15=–30dB 31=+30dB	0	0	0	1-199

Appendix A

FF1	System Program	8	Digital Pad	Address No./Display		Address No./Display		Available Settings	Defaults US	Defaults UK	Defaults CH	Page No.
						0013	Paging - TCLS05	(same as above)	0	0	0	1-199
						0014	Paging - TCLS06		0	0	0	1-199
						0015	Paging - TCLS07		0	0	0	1-199
						0016	Paging - TCLS08		0	0	0	1-199
						0017	Paging - TCLS09		0	0	0	1-199
						0018	Paging - TCLS10		0	0	0	1-199
						0019	Paging - TCLS11		0	0	0	1-199
						0020	Paging - TCLS12		0	0	0	1-199
						0021	Paging - TCLS13		0	0	0	1-199
						0022	Paging - TCLS14		0	0	0	1-199
						0023	Paging - TCLS15		0	0	0	1-199
						0024	Paging - TCLS16		0	0	0	1-199
				05	3Party CONF PAD	0001	3 CONF-ECLS01	0-31: 0=0dB 16=0 dB 1=–2dB 17=+2dB 2=–4dB 18=+4dB 3=–6dB 19=+6dB 4=–8dB 20=+8dB 5=–10dB 21=+10dB 6=–12dB 22=+12dB 7=–14dB 23=+14dB 8=–16dB 24=+16dB 9=–18dB 25=+18dB 10=–20dB 26=+20dB 11=–22dB 27=+22dB 12=–24dB 28=+24dB 13=–26dB 29=+26dB 14=–28dB 30=+28dB 15=–30dB 31=+30dB	3	3	3	1-200
						0002	3 CONF-ECLS02		2	2	2	1-200
						0003	3 CONF-ECLS03		3	3	3	1-200
						0004	3 CONF-ECLS04		0	0	0	1-200
						0005	3 CONF-ECLS05		0	0	0	1-200
						0006	3 CONF-ECLS06		20	20	20	1-200
						0007	3 CONF-ECLS07		0	0	0	1-200
						0008	3 CONF-ECLS08		0	0	0	1-200
						0009	3 CONF-TCLS01		0	0	0	1-200
						0010	3 CONF-TCLS02		18	18	18	1-200
						0011	3 CONF-TCLS03		0	0	0	1-200
						0012	3 CONF-TCLS04		0	0	0	1-200
						0013	3 CONF-TCLS05		0	0	0	1-200
						0014	3 CONF-TCLS06		0	0	0	1-200
						0015	3 CONF-TCLS07		0	0	0	1-200
						0016	3 CONF-TCLS08		0	0	0	1-200
						0017	3 CONF-TCLS09		0	0	0	1-200
						0018	3 CONF-TCLS10		0	0	0	1-200
						0019	3 CONF-TCLS11		0	0	0	1-200
						0020	3 CONF-TCLS12		0	0	0	1-200
						0021	3 CONF-TCLS13		0	0	0	1-200
						0022	3 CONF-TCLS14		0	0	0	1-200
						0023	3 CONF-TCLS15		0	0	0	1-200
						0024	3 CONF-TCLS16		0	0	0	1-200
				06	8Party CONF PAD	0001	8 CONF-ECLS01	0-31: 0=0dB 16=0 dB 1=–2dB 17=+2dB 2=–4dB 18=+4dB 3=–6dB 19=+6dB 4=–8dB 20=+8dB 5=–10dB 21=+10dB 6=–12dB 22=+12dB 7=–14dB 23=+14dB 8=–16dB 24=+16dB 9=–18dB 25=+18dB 10=–20dB 26=+20dB 11=–22dB 27=+22dB 12=–24dB 28=+24dB 13=–26dB 29=+26dB 14=–28dB 30=+28dB 15=–30dB 31=+30dB	3	3	3	1-202
						0002	8 CONF-ECLS02		2	2	2	1-202
						0003	8 CONF-ECLS03		3	3	3	1-202
						0004	8 CONF-ECLS04		0	0	0	1-202
						0005	8 CONF-ECLS05		0	0	0	1-202
						0006	8 CONF-ECLS06		20	20	20	1-202
						0007	8 CONF-ECLS07		0	0	0	1-202
						0008	8 CONF-ECLS08		0	0	0	1-202
						0009	8 CONF-TCLS01		0	0	0	1-202
						0010	8 CONF-TCLS02		18	18	18	1-202
						0011	8 CONF-TCLS03		0	0	0	1-202
						0012	8 CONF-TCLS04		0	0	0	1-202
						0013	8 CONF-TCLS05		0	0	0	1-202
						0014	8 CONF-TCLS06		0	0	0	1-202
						0015	8 CONF-TCLS07		0	0	0	1-202

FF1	System Program	8	Digital Pad	*Address No./Display*		*Address No./Display*		*Available Settings*	*Defaults*			*Page No.*
									US	*UK*	*CH*	
						0016	8 CONF-TCLS08	(same as above)	0	0	0	1-202
						0017	8 CONF-TCLS09		0	0	0	1-202
						0018	8 CONF-TCLS10		0	0	0	1-202
						0019	8 CONF-TCLS11		0	0	0	1-202
						0020	8 CONF-TCLS12		0	0	0	1-202
						0021	8 CONF-TCLS13		0	0	0	1-202
						0022	8 CONF-TCLS14		0	0	0	1-202
						0023	8 CONF-TCLS15		0	0	0	1-202
						0024	8 CONF-TCLS16		0	0	0	1-202

FF2 0: Analog Public Exchange Lines (page 2-7)

FF2	Trunks	0	Analog/CO	BSSC	Exchange Line Pos.	Address No./Display		Address No./Display		Available Settings	Defaults US	Defaults UK	Defaults CH	Page No.
				B=1-6 SS=01-12 C=1-8		00	Trunk Number			0:none 1-576:exchange line no.	--	--	--	2-7
						01	General 1	00	Signal Type	0:LS *(default-U.K.)* *(not U.K.):* 1:GS 2:DID Immed. 3:DIDWink	(depends on card installed)			2-8
								01	Loop Detect	0:No 1:Yes	1	1	1	2-8
								02	DISC Detect	0:Yes 1:No	0	0	0	2-9
								03	DP MIN.Pause	0:625ms(US) or 750ms(UK) 1:1000ms	0	0	0	2-9
								04	GS Ring Type	0:Yes (CO ring signal) 1:No	0		0	2-10
								05	DID RingDET Time	0:32ms 1:96ms	0		0	2-10
								06	CID Receive Timer??	0:2500-2850 ms ???	0	0	0	2-11
								07	Not Used					2-11
								08	Not Used					2-11
								09	Reverse ANS SIG	0:Yes 1:No	1	1	1	2-12
								10	CID Control	0:No 1:Yes	0	0	0	2-12
								11	Ring Frequency	0:synchronize w/Public-Exch. 1:400/562Hz 2:1000/1340Hz 3:400Hz 4:800/1040Hz 5:1040/1320Hz 6:660/1320Hz	1	1	1	2-13
								12	Ring Cycle PTN	0:synchronize w/Public-Exch. 1-11:pattern, in seconds (5:.5on/.5off) 12:continuous tone (1:1on/3off)	0	1	5	2-14
								13	DTMF PTN-Talk	0:pattern1 1:pattern2 2:pattern3	1	1	1	2-15
								14	DTMF PTN-Dial	0:pattern1 1:pattern2 2:pattern3	0	0	0	2-15
								15	Disconnect Timer	for LS/GS: 0:281ms 1:531ms 2:781ms 3:1032ms for DID: 0:96ms 1:144ms 2:240ms 3:1500ms	0	0	0	2-16
								16	Guard Timer	0:500ms 1:1sec 2:1.5sec 3:2sec	0	3	0	2-16
								17	Ground OTG Timer	0:1sec 1:2sec 2:4sec 3:8sec	0		0	2-17
								18	Not Used					2-17
								19	RG Control	0:5sec *(USA, U.K.)* 0:4sec *(all other)* 1:6sec 2:8sec 3:11sec	0	0	0	2-18
						02	General 2	00	Dial Type DP/PB	0:Dial Pulse 1:DTMF	1	1	1	2-18
								01	Flash Length	0:pattern1 1:pattern2	0	0	0	2-19
								02	DT Detect	0:No 1:Yes	1	1	1	2-19
								03	Call Duration	0:don't use system timer (Public-Exch. sends reverse signal) 1:use system timer	1	1	1	2-20
								04	TRK Type CO/PBX	0:Public-Exch. 1:PBX	0	0	0	2-20
								05	Auto Repeat Dial	0:No 1:Yes	1	1	1	2-21
								06	Link Control	0:Allow 1:Do not allow DTMF signalling after called party answers	0	0	1	2-21
								07	CO-DT	0:Do not send simulated Public-Exch. dial-tone to ext. 1:Send	0	0	0	2-22
								08	INCM Control	0:Wait for Caller ID data 1:Immed.ring	0	0	0	2-22
								09	SMDR Output/Out	0:Do not include in Call Logging 1:Include	1	1	1	2-23
								10	SMDR Output/In	0:Do not include in Call Logging 1:Include	0	0	0	2-23
								11	Flash Control	0:Send flash signal to Public-Exch. 1:Release line; user hears internal dial tone	0	0	0	2-24
								12	Long-Talk Alarm	0:Disabled 1:Enabled	0	0	0	2-24
								13	Alarm Ringing	0:Disabled 1:Enabled	0	0	0	2-25
								14	Slide Ringing	0:Disabled 1:Enabled	0	0	0	2-25
								15	PB Convert/Out	0:Do not switch to DTMF 1:Switch to DTMF after called/outside party answers	0	0	0	2-26
								16	PB Convert/In	0:Do not switch to DTMF 1:Switch to DTMF after user answers incoming call	0	0	0	2-27
								17	Indirect LCR	0:Disabled 1:Enabled	0	0	0	2-27
								18	Not Used					2-28
								19	Not Used					2-28

FF2	Trunks	0	Analog/CO	BSSC	Exchange Line Pos.	Address No./Display		Address No./Display		Available Settings	Defaults US	Defaults UK	Defaults CH	Page No.
								20	Not Used					2-28
						03	Ring Assignment	0	Day1 Ring Type	0:multi-Incomg 1:DDI/CLI 2:DISA 3:DL-Ext. 4:DL-HG 5:DL-SSD 6:DL-Att.	0	0	0	2-28
								1	D1 Destination	Ext/Virtual/Closed, Ext.HG, Att.HG, or SSD	--	--	--	2-28
								2	Day2 Ring Type	0:multi-Incomg 1:DDI/CLI 2:DISA 3:DL-Ext. 4:DL-HG 5:DL-SSD 6:DL-Att.	0	0	0	2-30
								3	D2 Destination	Ext/Virtual/Closed, Ext.HG, Att.HG, or SSD	--	--	--	2-30
								4	Night Ring Type	0:multi-Incomg 1:DDI/CLI 2:DISA 3:DL-Ext. 4:DL-HG 5:DL-SSD 6:DL-Att.	0	0	0	2-31
								5	N Destination	Ext/Virtual/Closed, Ext.HG, Att.HG, or SSD	--	--	--	2-31
						04	Delayed Ring	0	Day1 D-Ring Type	0:none 1:Ext 2:HG 3:SSD 4:Att.	0	0	0	2-32
								1	D1 D-Destination	Ext/Virtual/Closed, Ext.HG, Att.HG, or SSD	--	--	--	2-32
								2	Day2 D-Ring Type	0:none 1:Ext 2:HG 3:SSD 4:Att.	0	0	0	2-33
								3	D2 D-Destination	Ext/Virtual/Closed, Ext.HG, Att.HG, or SSD	--	--	--	2-33
								4	NGT D-Ring Type	0:none 1:Ext 2:HG 3:SSD 4:Att.	0	0	0	2-34
								5	N D-Destination	Ext/Virtual/Closed, Ext.HG, Att.HG, or SSD	--	--	--	2-34
						05	Tenant Group			0:none 1-72:Tenant Group No.	0	0	0	2-35
						06	TRK-TRS Class	0	Day1/2 TRS CLS	1-50	1	1	1	2-35
								1	Night TRS CLS	1-50	1	1	1	2-36
						07	Trunk COS			1-16	1	1	1	2-36
						08	Trunk DPAD CLS			1-16	1	1	1	2-37

FF2 0: AC-15 Private Lines (page 2-38)

FF2	Trunks	0	Analog/E&M	BSSC	Exchange Line Pos.	Address No./Display		Address No./Display		Available Settings	Defaults US	Defaults UK	Defaults CH	Page No.
				B=1-6 SS=01-12 C=1-4		00	Trunk Number			0:none 1-576:exchange line no.	--	--	--	2-38
						01	General 1	00	Signal Type	4:E&M Immed.Start 5:E&M Wink Start	5	5	5	2-39
								01	Not Used					2-39
								02	Not Used					2-39
								03	Not Used					2-39
								04	Not Used					2-39
								05	Ring DET Timer	0:48ms 1:160ms	0	0	0	2-40
								06	Auto Detect ANS	0:Disabled (wait for answer signal from other end) 1:Enabled (open voice path)	0	0	0	2-40
								07	Balance Control	0:Long Loop 1:Short Loop	0	0	0	2-41
								08	PAD Control	0:Far 1:Near	0	0	0	2-41
								09	Not Used					2-42
								10	Not Used					2-42
								11	Ring Frequency	1:400/562Hz 2:1000/1340Hz 3:400Hz 4:800/1040Hz 5:1040/1320Hz 6:660/1320Hz	1	1	1	2-42
								12	Ring Cycle PTN	0:synchronize w/exchange line 1-11:pattern, in seconds (5:.5on/.5off) 12:continuous tone (1:1on/2off)		1	5	2-43
								13	DTMF PTN-Talk	0:pattern1 1:pattern2 2:pattern3	1	1	1	2-44
								14	DTMF PTN-Dial	0:pattern1 1:pattern2 2:pattern3	0	0	0	2-44
								15	Disconnect Time	0:160ms 1:96ms 2:240ms 3:800ms	0	0	0	2-45
								16	Not Used					2-45
								17	Not Used					2-45
								18	Auto ANS Timer	0:1sec 1:2sec 2:3sec 3:4sec	0	0	0	2-46
								19	Not Used					2-46

Appendix A

FF2	Trunks	0	Analog/E&M	BSSC	Exchange Line Pos.	*Address No./Display*		*Address No./Display*		*Available Settings*	*Defaults*			*Page No.*
											US	*UK*	*CH*	
						02	General 2	00	Dial Type DP/PB	0:Dial Pulse 1:DTMF	1	1	1	2-47
								01	Flash Length	0:pattern1 1:pattern2	0	0	0	2-47
								02	Not Used					2-48
								03	Not Used					2-48
								04	TRK Type CO/PBX	0:Public Exchange 1:PBX/Centrex	0	0	0	2-48
								05	Not Used					2-48
								06	Link Control	0:Allow 1:Do not allow DTMF signalling after called party answers	0	0	1	2-49
								07	CO-DT For Tie	0:Do not send simulated dialtone to ext. 1:Send	0	0	0	2-49
								08	Not Used					2-50
								09	SMDR Output/Out	0:Do not include in Call Logging 1:Include	1	1	1	2-50
								10	SMDR Output/In	0:Do not include in Call Logging 1:Include	0	0	0	2-50
								11	Flash Control	0:Send flash signal to Public-Exch. 1:Release line/user hears internal dial tone	0	0	0	2-51
								12	Not Used					2-52
								13	Not Used					2-52
								14	Not Used					2-52
								15	PB Convert/Out	0:Do not switch to DTMF 1:Switch to DTMF after called/outside party answers	1	1	1	2-52
								16	PB Convert/In	0:Do not switch to DTMF 1:Switch to DTMF after user answers incoming call	1	0	0	2-53
								17	Indirect LCR	0:Disabled 1:Enabled	0	0	0	2-53
								18	Not Used					2-54
								19	Not Used					2-54
								20	Not Used					2-54
						03	Ring Assignment	0	Day1 Ring Type	0:Tie Incoming 1:Tandem	0	0	0	2-54
								1	Not Used					2-54
								2	Day2 Ring Type	0:Tie Incoming 1:Tandem	0	0	0	2-55
								3	Not Used					2-56
								4	Night Ring Type	0:Tie Incoming 1:Tandem	0	0	0	2-55
								5	Not Used					2-56
						04	Not Used	0	Not Used					2-56
								1	Not Used					2-56
								2	Not Used					2-56
								3	Not Used					2-56
								4	Not Used					2-56
								5	Not Used					2-56
						05	Tenant Group			0:none 1-72:Tenant Group No.	0	0	0	2-57
						06	TRK-TRS Class	0	Day1/2 TRS CLS	1-50	1	1	1	2-58
								1	Night TRS CLS	1-50	1	1	1	2-58
						07	Trunk COS			1-16	1	1	1	2-59
						08	Trunk DPAD CLS			1-16	8	8	8	2-59

FF2 1: ISDN Exchange Lines (page 2-60)

FF2	Trunks	1	ISDN	BSSC	Exchange Line Pos.	Address No./Display		Address No./Display		Available Settings	Defaults US	Defaults UK	Defaults CH	Page No.
				B=1-6 SS=01-12 C=1 (PRI)		00	Common Dch	0	Shared DchPOS	BSSC (B:1-6 SS:01-12 C:1-4 or 1)	--		--	2-60
								1	Dch I/F ID Code	1-127 (max. 3 digits)	--		--	2-60
				B=1-6 SS=01-12 C=1-4		01	Trunk Number			0:none 1-576:exchange line number	--	--	--	2-61
						02	General 1	00	Connection Type	0:Point-to-Point 1:Point-to-Multi-Point	0	0	0	2-62
								01	Ring Frequency	0:none 1:400/562Hz 2:1000/1340Hz 3:400Hz 4:800/1040Hz 5:1040/1320Hz 6:660/1320Hz	1	1	1	2-63
								02	Ring Cycle PTN	1-11:pattern, in seconds (5:.5on/.5off) 12:continuous tone (1:1on/2off)	1	1	1	2-64
								03	DTMF PTN-Talk	0:pattern1 1:pattern2 2:pattern3	1	1	1	2-65
								04	Not Used					2-65
								05	Not Used					2-65
						03	General 2	00	TRK Type CO/PBX	0:CO 1:PBX	0	0	0	2-66
								01	Auto Repeat Dial	0:No 1:Yes	1	1	1	2-66
								02	SMDR Output/Out	0:Do not include in Call Logging 1:Include	1	1	1	2-67
								03	SMDR Output/In	0:Do not include in Call Logging 1:Include	0	0	0	2-67
								04	Flash Control	0:Disconnect talk path/keep line; user hears simulated dial tone 1:Release line; user hears internal dial tone	0	0	0	2-68
								05	Long-Talk Alarm	0:Disabled 1:Enabled	0	0	0	2-68
								06	Alarm Ringing	0:Disabled 1:Enabled	0	0	0	2-69
								07	Slide Ringing	0:Disabled 1:Enabled	0	0	0	2-69
								08	Indirect LCR	0:Disabled 1:Enabled	0	0	0	2-70
								09	Bch Select	0:highest-numbered 1:lowest-numbered	0	0	0	2-71
								10	Bch MAP	0:Slot mapping 1:Channel numbering	0	1	0	2-71
								11	Call ID Length	0:1 byte/octet 1:2 bytes/octets	0 (BRI) 1 (PRI)			2-72
								12	Calling # Send	0:No 1:Yes	1	1	1	2-72
								13	Sub Address Type	0:IA5 1:BCD	0	0	0	2-73
								14	Not Used					2-74
								15	Not Used					2-74
								16	Not Used					2-74
								17	Not Used					2-74
								18	Not Used					2-74
								19	Not Used					2-74
								20	Not Used					2-74
								21	Not Used					2-74
								22	Not Used					2-74
						04	Ring Assignment	0	Day1 Ring Type	0:multi-Incomg 1:DDI/CLI 2:DISA 3:DL-Ext. 4:DL-HG 5:DL-SSD 6:DL-Att.	0	0	0	2-75
								1	D1 Destination	Ext/Virtual/Closed, Ext.HG, Att.HG, or SSD	--	--	--	2-75
								2	Day2 Ring Type	0:multi-Incomg 1:DDI/CLI 2:DISA 3:DL-Ext. 4:DL-HG 5:DL-SSD 6:DL-Att.	0	0	0	2-76
								3	D2 Destination	Ext/Virtual/Closed, Ext.HG, Att.HG, or SSD	--	--	--	2-76
								4	Night Ring Type	0:multi-Incomg 1:DDI/CLI 2:DISA 3:DL-Ext. 4:DL-HG 5:DL-SSD 6:DL-Att.	0	0	0	2-77
								5	N Destination	Ext/Virtual/Closed, Ext.HG, Att.HG, or SSD	--	--	--	2-77
						05	Delayed Ring	0	Day1 D-Ring Type	0:none 1:Ext 2:HG 3:SSD 4:Att.	0	0	0	2-78
								1	D1 D-Destination	Ext/Virtual/Closed, Ext.HG, Att.HG, or SSD	--	--	--	2-78
								2	Day2 D-Ring Type	0:none 1:Ext 2:HG 3:SSD 4:Att.	0	0	0	2-79
								3	D2 D-Destination	Ext/Virtual/Closed, Ext.HG, Att.HG, or SSD	--	--	--	2-79
								4	NGT D-Ring Type	0:none 1:Ext 2:HG 3:SSD 4:Att.	0	0	0	2-80

FF2	Trunks	1	ISDN	BSSC	Exchange Line Pos.	Address No./Display		Address No./Display		Available Settings	Defaults US	Defaults UK	Defaults CH	Page No.
								5	N D-Destination	Ext/Virtual/Closed, Ext.HG, Att.HG, or SSD	--	--	--	2-80
						06	Tenant Group	0	TRK#001 Tenant G	0:none 1-72:Tenant Group No.	0	0	0	2-81
								1	TRK#002 Tenant G	0:none 1-72:Tenant Group No.	0	0	0	2-81
								2	TRK#003 Tenant G	0:none 1-72:Tenant Group No.	0	0	0	2-81
								...	...	0:none 1-72:Tenant Group No.	0	0	0	2-81
								29	TRK#030 Tenant G	0:none 1-72:Tenant Group No.	0	0	0	2-81
						07	TRK-TRS Class	0	Day1/2 TRS CLS	1-50	1	1	1	2-82
								1	Night TRS CLS	1-50	1	1	1	2-82
						08	Trunk COS			1-16	1	1	1	2-83
						09	Calling Number	0	Area Code	up to 6 digits	--	--	--	2-83
								1	Office Code	up to 6 digits	--	--	--	2-84
								2	Subscriber #	up to 4 digits	--	--	--	2-84
						10	Trunk DPAD CLS			1-16	7	7	7	2-85

FF2 2: T1-CO Lines *(USA only)* (page 2-86)

FF2	Trunks	2	T1/CO	BSSCC	ChnnlPos	Address No./Display		Address No./Display		Available Settings	Defaults US	Defaults UK	Defaults CH	Page No.
				B=1-6 SS=01-12 CC=01-24		00	TRK Type CO/NET			0:none 1:CO 2:Private Network	1	1	1	2-86
						01	Trunk Number			0:none 1-576:trunk no.	--	--	--	2-87
						02	General 1	00	Signal	0:LS 1:GS 2:DID Immed. 3:DID Wink	3	3	3	2-87
								01	DISC Detect	0:No 1:Yes	0	0	0	2-88
								02	DP MIN.Pause	0:625ms (US) or 750ms (UK) 1:1000ms	0	0	0	2-88
								03	GS Ring Type	0:CO ring signal 1:No CO ring signal	0	0	0	2-89
								04	DID RingDET Time	0:32ms 1:96ms	0	0	0	2-89
								05	Not Used					2-90
								06	Frame Format	0:SF 1:ESF	0	0	0	2-90
								07	Line Coding	0:AMI 1:B8ZS	0	0	0	2-91
								08	Ring Frequency	0:none 1:400/562Hz 2:1000/1340Hz 3:400Hz 4:800/1040Hz 5:1040/1320Hz 6:660/1320Hz	1	1	1	2-91
								09	Ring Cycle PTN	0:synchronize w/CO 1-11:pattern, in seconds (5:.5on/.5off) 12:continuous tone (1:1on/3off)	1	1	1	2-92
								10	DTMF PTN-Talk	0:pattern1 1:pattern2 2:pattern3	1	1	1	2-93
								11	DTMF PTN-Dial	0:pattern1 1:pattern2 2:pattern3	0	0	0	2-93
								12	Disconnect Timer	for LS/GS: 0:281ms 1:531ms 2:781ms 3:1032ms for DID: 0:96ms 1:144ms 2:240ms 3:1500ms	0	0	0	2-94
								13	Guard Timer	0:500ms 1:1sec 2:1.5sec 3:2sec	2	2	2	2-95
								14	In-Ground Timer	0:1sec 1:2sec 2:4sec 3:8sec	0	0	0	2-95
								15	Not Used					2-96
						03	General 2	00	Dial Type DP/PB	0:Dial Pulse 1:DTMF	1	1	1	2-96
								01	Flash Length	0:pattern1 1:pattern2	0	0	0	2-96
								02	DT Detect	0:No 1:Yes	1	1	1	2-97
								03	TRK Type CO/PBX	0:CO 1:PBX	0	0	0	2-97
								04	Auto Repeat Dial	0:No 1:Yes	1	1	1	2-98
								05	Link Control	0:Allow 1:Do not allow DTMF signaling after called party answers	0	0	1	2-98
								06	CO-DT	0:Do not send simulated CO dialtone to ext. 1:Send	0	0	0	2-99
								07	SMDR Output/Out	0:Do not include in SMDR 1:Include	1	1	1	2-99

FF2	Trunks	2	T1/CO	BSSCC	ChnnlPos	Address No./Display		Address No./Display		Available Settings	Defaults US	Defaults UK	Defaults CH	Page No.
								08	SMDR Output/In	0:Do not include in SMDR 1:Include	0	0	0	2-100
								09	Flash Control	0:Send flash signal to CO 1:Release T1 channel; user hears internal dial tone	0	0	0	2-100
								10	Long-Talk Alarm	0:Disabled 1:Enabled	0	0	0	2-101
								11	Alarm Ringing	0:Disabled 1:Enabled	0	0	0	2-101
								12	Slide Ringing	0:Disabled 1:Enabled	0	0	0	2-102
								13	PB Convert/Out	0:Do not switch to DTMF 1:Switch to DTMF after called/outside party answers	0	0	0	2-103
								14	PB Convert/In	0:Do not switch to DTMF 1:Switch to DTMF after user answers incoming call	0	0	0	2-103
								15	Indirect LCR	0:Disabled 1:Enabled	0	0	0	2-104
								16	Call Duration	0: Do not use system timer 1: Use system timer	1	1	1	2-104
								17	Not Used					2-105
								18	Not Used					2-105
						04	Ring Assignment	0	Day1 Ring Type	0:multiCOincm. 1:DID 2:DISA 3:DIL 4:DIL/HG 5:DIL/SSD 6:DIL/Att.	0	0	0	2-106
								1	D1 Destination	Ext/Virtual/Closed, Ext.HG, Att.HG, or SSD	--	--	--	2-106
								2	Day2 Ring Type	0:multiCOincm. 1:DID 2:DISA 3:DIL 4:DIL/HG 5:DIL/SSD 6:DIL/Att.	0	0	0	2-107
								3	D2 Destination	Ext/Virtual/Closed, Ext.HG, Att.HG, or SSD	--	--	--	2-107
								4	Night Ring Type	0:multiCOincm. 1:DID 2:DISA 3:DIL 4:DIL/HG 5:DIL/SSD 6:DIL/Att.	0	0	0	2-108
								5	N Destination	Ext/Virtual/Closed, Ext.HG, Att.HG, or SSD	--	--	--	2-108
						05	Delayed Ring	0	Day1 D-Ring Type	0:none 1:Ext 2:HG 3:SSD 4:Att.	0	0	0	2-109
								1	D1 D-Destination	Ext/Virtual/Closed, Ext.HG, Att.HG, or SSD	--	--	--	2-109
								2	Day2 D-Ring Type	0:none 1:Ext 2:HG 3:SSD 4:Att.	0	0	0	2-110
								3	D2 D-Destination	Ext/Virtual/Closed, Ext.HG, Att.HG, or SSD	--	--	--	2-110
								4	NGT D-Ring Type	0:none 1:Ext 2:HG 3:SSD 4:Att.	0	0	0	2-111
								5	N D-Destination	Ext/Virtual/Closed, Ext.HG, Att.HG, or SSD	--	--	--	2-111
						06	Tenant Group			1-72	--	--	--	2-112
						07	TRK-TRS Class	0	Day1/2 TRS CLS	1-50	1	1	1	2-112
								1	Night TRS CLS	1-50	1	1	1	2-113
						08	Trunk COS			1-16	1	1	1	2-113
						09	Trunk DPAD CLS			1-16	7	7	7	2-114

FF2 2: T1-E&M Tie Lines *(USA only)* (page 2-115)

FF2	Trunks	2	T1/E&M	BSSCC	ChnnlPos	Address No./Display		Address No./Display		Available Settings	Defaults US	Defaults UK	Defaults CH	Page No.
				B=1-6 SS=01-12 CC=01-24		00	TRK Type CO/NET			1:CO 2:Private Network	1	1	1	2-116
						01	Trunk Number			0:none 1-576:trunk no.	--	--	--	2-115
						02	General 1	00	Signal Type	4:E&M Immediate 5:E&M Wink	5	5	5	2-116
								01	Not Used					2-117
								02	Not Used					2-117
								03	Not Used					2-117
								04	RingDET Timer	0:48ms 1:160ms	0	0	0	2-117
								05	Auto Detect Answer	0:Disabled (wait for answer signal from other end) 1:Enabled (open voice path)	0	0	0	2-118
								06	Frame Format	0:SF 1:ESF	0	0	0	2-118
								07	Line Coding	0:AMI 1:B8ZS	0	0	0	2-119

Appendix A

FF2	Trunks	2	T1/E&M	BSSCC	ChnnlPos	Address No./Display		Address No./Display		Available Settings	Defaults US	Defaults UK	Defaults CH	Page No.
								08	Ring Frequency	0:No ring 1:400/562Hz 2:1000/1340Hz 3:400Hz 4:800/1040Hz 5:1040/1320Hz 6:660/1320Hz	1	1	1	2-120
								09	Ring Cycle PTN	0:synchronize w/CO 1-11:pattern, in seconds (5:.5on/.5off) 12:continuous tone (1:1on/3off)	1	1	1	2-121
								10	DTMF PTN-Talk	0:pattern1 1:pattern2 2:pattern3	1	1	1	2-122
								11	DTMF PTN-Dial	0:pattern1 1:pattern2 2:pattern3	0	0	0	2-122
								12	Disconnect Timer	0:160ms 1:96ms 2:240ms 3:800ms	0	0	0	2-123
								13	Not Used					2-123
								14	Not Used					2-123
								15	Auto ANS Timer	0:1sec 1:2sec 2:3sec 3:4sec	0	0	0	2-124
						03	General 2	00	Dial Type DP/PB	0:Dial Pulse 1:DTMF	1	1	1	2-124
								01	Flash Length	0:pattern1 1:pattern2	0	0	0	2-125
								02	Not Used					2-125
								03	TRK Type CO/PBX	0:E&M 1:PBX/Centrex	0	0	0	2-126
								04	Not Used					2-126
								05	Link Control	0:Allow 1:Do not allow DTMF signaling after called party answers	0	0	1	2-126
								06	CO-DT	0:Do not send simulated CO dialtone to ext. 1:Send	0	0	0	2-127
								07	SMDR Output/Out	0:Do not include in SMDR 1:Include	1	1	1	2-127
								08	SMDR Output/In	0:Do not include in SMDR 1:Include	0	0	0	2-128
								09	Flash Control	0:Send flash signal to CO 1:Release channel; user hears internal dial tone	0	0	0	2-128
								10	Not Used					2-129
								11	Not Used					2-129
								12	Not Used					2-129
								13	PB Convert/Out	0:Do not switch to DTMF 1:Switch to DTMF after called/outside party answers	1	1	1	2-129
								14	PB Convert/In	0:Do not switch to DTMF 1:Switch to DTMF after user answers incoming call	1	1	1	2-130
								15	Indirect LCR	0:Disabled 1:Enabled	0	0	0	2-130
								16	Not Used					2-131
								17	Not Used					2-131
								18	Not Used					2-131
						04	Ring Assignment	0	Day1 Ring Type	0:Tie Incoming 1:Tandem	0	0	0	2-131
								1	Not Used					2-131
								2	Day2 Ring Type	0:Tie Incoming 1:Tandem	0	0	0	2-132
								3	Not Used					2-132
								4	Night Ring Type	0:Tie Incoming 1:Tandem	0	0	0	2-133
								5	Not Used					2-134
						05	Not Used	0	Not Used					2-134
								1	Not Used					2-134
								2	Not Used					2-134
								3	Not Used					2-134
								4	Not Used					2-134
								5	Not Used					2-134
						06	Tenant Group			0:none 1-72:Tenant Group No.	0	0	0	2-134
						07	TRK-TRS Class	0	Day1/2 TRS CLS	1-50	1	1	1	2-135
								1	Night TRS CLS	1-50	1	1	1	2-135
						08	Trunk COS			1-16	1	1	1	2-136
						09	Trunk DPAD CLS			1-16	7	7	7	2-136

Appendix A

FF3 0: Extension Settings - Digital Keyphones and SLTs (page 3-3)

FF3	Extens	0	Digital&SLT	BSSC	ExtPortPos	*Address No./Display*		*Address No./Display*		*Available Settings*	*Defaults* US	UK	CH	*Page No.*
				B=1-6 SS=01-12 C=1-8		00	Phone Type			1:digital keyphone or SLT 2:EM/24 3:DSS/72	1	1	1	3-3
						01	KTEL Type			1:VB-44 2:VB-43 3:not used 4:not used 5:Digital SLT	automatically detected			3-4
						02	EXT Number			0-9999	--	--	--	3-4
						03	General 1	0	SLT HK Control	0:Detect 1:Ignore	0	0	0	3-5
								1	SLT Type DP/PB	0:Dial pulse 1:DTMF	1	1	1	3-6
								2	SLT ON-HK Timer	(if Flash Detect) 0:240ms 1:1008ms 2:1200ms 3:1504ms (if Flash Ignore) 0:160ms 1:112ms 2:208ms 3:304ms	1	0	0	3-6
								3	SLT Hooking TM	0:80-176ms 1:96-176ms 2:208ms 3:208ms	2	0	0	3-7
								4	Not Used					3-7
						04	General 2	00	Auto Answer	0:No (must press exch.line FF-key) 1:Yes	1	1	1	3-8
								01	Ring PREF ON/OFF	0:No (must press exch.line FF-key) 1:Yes	0	0	0	3-8
								02	Slide Ringing	0:Disable receive 1:Enable receive	0	0	0	3-9
								03	CO-Key Override	0:Disable 1:Enable	0	0	0	3-9
								04	Auto Camp-On	0:Disable 1:Enable	0	0	0	3-10
								05	Off-Hook Signal	0:Disable 1:Enable	1			3-10
								06	VoiceMail Port	0:No 1:Yes	0	0	0	3-11
								07	Fixed Ring-SLT	0:Variable 1:Fixed ring pattern	0	0	0	3-12
								08	Auto PB Convert	0:Do not receive DTMF 1:Receive DTMF from digital keyphone	1	1	1	3-12
								09	MW LED Control	0:Disable 1:Enable Msg-Waiting LED	1	1	1	3-13
								10	Data Security	0:Disabled (allow interruptions) 1:Enabled (do not allow interruptions)	0	0	0	3-13
								11	Idle Screen Set	0:Do not allow 1:Allow return to idle menu	1	1	1	3-14
								12	CO Key OPT 1	0:Seize exch.ln. on FF-key press 1:Ignore	1	1	1	3-14
								13	CO Key OPT 2	0:Ignore HOLD press 1:Retrieve held call by pressing HOLD again	0	0	0	3-15
								14	CO Key OPT 3	0:Retrieve 2nd exch.line call by pressing its FF-key 1:Ignore exch.line FF-key press	0	0	0	3-15
								15	CO Key OPT 4	0:Disable 1:Enable Brokers Hold	0	0	0	3-16
								16	S-Mode Display	0:Do not display 1:Display Day1/2/Night	0	0	0	3-17
								17	Recall Key	0:Do not send flash 1:Send flash	0	1	0	3-17
								18	In-Talk Duration	0:Display call duration 1:Display date/time	0	0	0	3-18
								19	Ring VOL Control	0:same 1:separate volume controls for intercom and exchange line ringing	1	1	1	3-18
								20	Loop Disconnect	0:Do not send 1:Send open-loop disconnect signal upon hangup	1	1	1	3-19
								21	Flash Control	0:Send flash to public-exchange 1:Send intercom dialtone	0	0	0	3-19
								22	Variable Mode	0:Release 1:Do not release	0	0	0	3-20
								23	MCO Preference	0:Disable 1:Enable MCO Prime Line	0	0	0	3-21
								24	Forced ACCD	0:Disable 1:Enable Forced Acct. Codes	0	0	0	3-21
								25	Verified ACCD	0:Disable 1:Enable Verified Acct. Codes	0	0	0	3-22
								26	Not Used					3-23
								27	Hot Dial Pad	0:Disable 1:Enable Hot Dial Pad feature	1	0	0	3-23
						05	Tenant Group			1-72	1	1	1	3-24
						06	EXT-TRS Class	0	Day1/2 TRS CLS	1-50	1	1	1	3-25
								1	Night TRS CLS	1-50	1	1	1	3-25
						07	Extension COS			1-16	1	1	1	3-26
						08	EXT DPAD CLS			1-8	1(AEC) 3(DEC)			3-26
						09	Dial Plan PTN			1:Dial Plan “A” 2:Dial Plan “B”	1	1	1	3-27

Appendix A

FF3 1: S-Point ISDN Extensions (page 3-28)

FF3	Extens	1	S-point ISDN	BSSC	ExtPortPos	Address No./Display		Address No./Display		Available Settings	Defaults US	Defaults UK	Defaults CH	Page No.
				B=1-6 SS=01-12 C=1 (PRI)		00	Common Dch	0	Shared Dch POS	BSSC	--	--	--	3-28
								1	Dch I/F ID Code	1-127 (max. 3 digits)	--	--	--	3-29
				B=1-6 SS=01-12 C=1-4 (for BRI) or 1 (for PRI)		01	EXT Number			0-9999	--	--	--	3-29
						02	General 1	00	Connection Type	0:Point-to-Point 1:Point-to-MultiPoint	0	0	0	3-30
								01	Passive Bus	0:Short loop/200m 1:Long loop/1km	0	0	0	3-30
								02	Operate Mode	0:Active 1:Passive 2:Per-call	0	0	0	3-31
								03	Not Used					3-31
						03	General 2	00	Bch Select	0:Highest-numbered 1:Lowest-numbered	0	0	0	3-32
								01	Bch MAP	0:Slot Mapping 1:Channel Numbering	1	1	1	3-32
								02	Call ID Length	0:1 byte/octet 1:2 bytes/octets	0 (for BRI) 1 (for PRI)			3-33
								03	Called # INFO	0:No 1:Yes	0	0	0	3-34
								04	Sub-Address INFO	0:No 1:Yes	0	0	0	3-34
								05	Not Used					3-35
								06	Progress Tone	0:Do not send 1:Send	1	1	1	3-35
								07	Data Security	0:Disabled (allow interruptions) 1:Enabled (do not allow interruptions)	0	0	0	3-35
								08	Not Used					3-36
						04	Tenant Group			1-72	1	1	1	3-36
						05	EXT-TRS Class	0	Day1/2 TRS CLS	1-50	1	1	1	3-37
								1	Night TRS CLS	1-50	1	1	1	3-37
						06	Extension COS			1-16	1	1	1	3-38
						07	EXT DPAD CLS	0	EXT DPAD CLS	1-8	5	5	5	3-38
						08	Dial Plan PTN			1:Dial Plan "A" 2:Dial Plan "B"	1	1	1	3-39

FF3 2: Virtual Ports (page 3-40)

FF3	Extens	2	Virtual Ports	001-576	Vir.PortNo.	Address No./Display		Address No./Display		Available Settings	Defaults US	Defaults UK	Defaults CH	Page No.
						00	EXT Number			0-9999	--	--	--	3-40
						01	General 1	00	Ring Frequency	1:400/562Hz 2:1000/1340Hz 3:400Hz 4:800/1040Hz 5:1040/1320Hz 6:660/1320Hz	1	1	1	3-41
								01	Ring Cycle PTN	1-11:pattern, in seconds (5:.5on/.5off) 12:continuous tone (1:1on/2off	5	1	5	3-42
						02	Tenant Group			1-72	1	1	1	3-43
						03	Extension COS			1-16	1	1	1	3-44

FF3 3: RAI Extension Port (page 3-45)

FF3	Extens	3	RAI Port	--	--	Address No./Display		Address No./Display		Available Settings	Defaults US	Defaults UK	Defaults CH	Page No.
						00	EXT Number			0-9999	699	699	699	3-45
						01	Tenant Group			1-72	1	1	1	3-45
						02	Extension COS			1-16	1	1	1	3-46

FF4: FF-Key/Soft Key Assignments (page 4-1)

FF4			Ext. Pos.	Address No./Descr.		Address No./Descr.		Address No./Display		Available Settings	Defaults US	UK	CH	Page No.
	0	Digital Keyphones, SLTs, and EM/24s	BSSC	0	FF-Key Feat.Cd	NN	(NN=FF-key 01-32)		FF Assign	enter Fixed Feature Code (see table, pg. 4-2)	--	--	--	4-7
				1	Trunk Ringing	NN	(NN=FF-key 01-32)	1	Outgoing TRS	0:Allow 1:Do not allow	0	0	0	4-10
								2	Incoming TRS	0:Allow 1:Do not allow	0	0	0	4-11
								3	Day1 Ring Assign	0:Do not ring 1:Ring	0	0	0	4-11
								4	Day2 Ring Assign	0:Do not ring 1:Ring	0	0	0	4-12
								5	Night R-Assign	0:Do not ring 1:Ring	0	0	0	4-12
								6	No-Ring Auto ANS	0:Disabled 1:Enabled	0	0	0	4-13
	1	DSS/72s	BSSC	0	Feature Code	NN	(NN=FF-key 01-72)		Function# nnnn	enter Fixed Feature Code (see table, pg. 4-2)	--	--	--	4-14
				1	Trunk Ringing	NN	(NN=FF-key 01-72)	1	Outgoing TRS	0:Allow 1:Do not allow	0	0	0	4-15
								2	Incoming TRS	0:Allow 1:Do not allow	0	0	0	4-16
								3	Day1 Ring Assign	0:Do not ring 1:Ring	0	0	0	4-16
								4	Day2 Ring Assign	0:Do not ring 1:Ring	0	0	0	4-17
								5	Night R-Assign	0:Do not ring 1:Ring	0	0	0	4-17
								6	No-Ring Auto ANS	0:Disabled 1:Enabled	0	0	0	4-18
	2	Soft Keys on Display Phones	BSSC	0	Soft Key Feat.Cd	NN	(NN=Soft key 01-30)		Function # nnnn	enter Fixed Feature Code (see table, pg. 4-2)	--	--	--	4-19

FF5: Groups (page 5-1)

FF5	Group Program	Address No./Display		Address No./Display or Entry No./Description		Address No./Display		Available Settings	Defaults US	UK	CH	Page No.
		0	Attendant Group	01	ATT Pilot #			Extension (Pilot) No. 0-9999	0	0	0	5-3
				02	ATT-D1 Hunt	01	ATT-D1 Hunt Mod	0:no hunting 1:Pilot Terminal 2:Pilot Distributed	1	1	1	5-3
						02	ATT-D1 Member	Ext. No. 0-9999	--	--	--	5-4
						...	...	...	...	...	...	5-4
						21	ATT-D1 Member	Ext. No. 0-9999	--	--	--	5-4
						22	ATT-D1 Delayed	0:stay at idle ext. 1-255:no.seconds	0	0	0	5-5
						23	ATT-D1 Queuing	0:stay in same HG 1-255:no.seconds	0	0	0	5-5
						24	ATT-D1 Next HUN	0-9999 (next Ext.No. or HG Pilot No.)	--	--	--	5-6
				03	ATT-D2 Hunt	01	ATT-D2 Hunt Mod	1:Pilot Terminal 2:Pilot Distributed	1	1	1	5-6
						02	ATT-D2 Member	Ext. No. 0-9999	--	--	--	5-7
						...	...	...	...	...	...	5-7
						21	ATT-D2 Member	Ext. No. 0-9999	--	--	--	5-7
						22	ATT-D2 Delayed	0:stay at idle ext. 1-255:no.seconds	0	0	0	5-8
						23	ATT-D2 Queuing	0:stay in same HG 1-255:no.seconds	0	0	0	5-8
						24	ATT-D2 Next HUN	0-9999 (next Ext.No. or HG Pilot No.)	--	--	--	5-9
				04	ATT-N Hunt	01	ATT-N Hunt Mode	1:Pilot Terminal 2:Pilot Distributed	1	1	1	5-9
						02	ATT-N Member	Ext. No. 0-9999	--	--	--	5-10
						...	...	...	...	...	...	5-10
						21	ATT-N Member	Ext. No. 0-9999	--	--	--	5-10
						22	ATT-N Delayed T	0:stay at idle ext. 1-255:no.seconds	0	0	0	5-11
						23	ATT-N Queuing	0:stay in same HG 1-255:no.seconds	0	0	0	5-11
						24	ATT-N Next HUNT	0-9999 (next Ext.No. or HG Pilot No.)	--	--	--	5-12
		1	Hunting Group	NN	(NN=Ext.HGrp 01-72)	01	HG Hunt Mode	0:no hunting 1:Pilot Terminal 2:Pilot Distributed 3:Switchback 4:Circular	1	1	1	5-13
						02	HG Pilot #	0-9999 (Pilot no.)	--	--	--	5-14

FF5	Group Program	Address No./Display		Address No./Display or Entry No./Description		Address No./Display		Available Settings	Defaults US	Defaults UK	Defaults CH	Page No.
						03	HG Member	Ext. No. 0-9999	--	--	--	5-14
						...	...	...	...	...	...	5-14
						22	HG Member	Ext. No. 0-9999	--	--	--	5-14
						23	Delayed Hunt TM	0:stay at idle ext. 1-255:no.seconds	16	0	0	5-16
						24	Queuing Timer	0:stay in same HG 1-255:no.seconds	0	0	0	5-17
						25	Next Hunting	0-9999 (next Ext.No. or HG Pilot No.)	--	--	--	5-18
		2	MCO Out Group	NN	(NN=Trk.Grp 01-99)	001	TG-Out Search	0:Reverse order by Member# 1:Distributed order	0	0	0	5-19
						002	TG-Out Member	Trunk No. 1-576	--	--	--	5-20
						...	...	...	...	...	...	5-20
						051	TG-Out Member	Trunk No. 1-576	--	--	--	5-20
		3	MCO In Group	NN	(NN=Trk.Grp 01-99)	01	TG-In Member	Trunk No. 1-576	--	--	--	5-21
						...	...	...	...	...	...	5-21
						50	TG-In Member	Trunk No. 1-576	--	--	--	5-21
		4	Paging Group	NN	(NN=PageGrp 01-10)	01	External Port	BSSC (B=1-6 SS=01-12 C=1-8)	* (use paging port on SCC)			5-22
						02	Page Member	Ext. No. 0-9999	--	--	--	5-23
						...	...	...	...	...	...	5-23
						73	Page Member	Ext. No. 0-9999	--	--	--	5-23
		5	Hot Line	NN	(NN=HotLn 01-20)	01	Hot-L ORG EXT #	Ext. No. 0-9999	--	--	--	5-24
						02	Hot-L DEST Type	0:Extension 1:SSD code	0	0	0	5-24
						03	Hot-L DEST INFO	Ext. No. 1-9999 or SSD Code 000-999	--	--	--	5-25
		6	Pickup Group	NN	(NN=PickupGrp 1-72)	01	Pick-Up Member	Ext. No. 1-9999	--	--	--	5-26
						...	...	...	...	...	...	5-26
						20	Pick-Up Member	Ext. No. 1-9999	--	--	--	5-26

FF6: TRS(Call Barring)/ARS (page 6-1)

FF6	TRS/ARS Program	Address No./Display		Address No./Display		Entry	Address No./Display		Available Settings	Defaults US	Defaults UK	Defaults CH	Page No.
		0	TRS/ARS Common	00	Leading Table (NNN=Leading Digit Pattern 001-100)	NNN	0001	LDNNN Number	0-9, * (up to 10 digits)	--	--	--	6-6
							0002	LDNNN ID Code	0:no link w/Following Table) 1-99:prefix ID	0	0	0	6-7
							0003	LDNNN Follow DGT	0-16 (max. no. of dialed digits after Ldg)	0	0	0	6-7
							0004	LDNNN TRS Level	0-8 (TRS Level)	0	0	0	6-8
							0005	LDNNN Route Type	0:Route 1:Route List 2:Time List	0	0	0	6-9
							0006	LDNNN Route #	0-200 (Route) or 0-100 (Route List) or 0-50 (Time List)	0	0	0	6-10
				01	Following Table (NNN=Analyze Digit Pattern 001-500)	NNN	0001	FDNNN ID Code	0:none 1-99:prefix ID	0	0	0	6-11
							0002	FDNNN Number	0-9, * (up to 8 digits)	--	--	--	6-12
							0003	FDNNN Follow DGT	0-16 (max. no. of dialed digits after Anlyz)	0	0	0	6-13
							0004	FDNNN TRS Level	0-8 (TRS Level)	0	0	0	6-13
							0005	FDNNN Route Type	0:Route 1:Route List 2:Time List	0	0	0	6-14
							0006	FDNNN Route #	0-200 (Route) or 0-100 (Route List) or 0-50 (Time List)	0	0	0	6-15
		1	TRS	00	N-ARS TRS Level (NN=TRS Class 01-50)	NN	0001	CLSNN TG01 LV	0-9 TRS Level (0:restrict all 9:allow all)	9	9	9	6-17
							...	...	...	...	...	...	6-17
							0099	CLSNN TG99 LV	0-9 TRS Level (0:restrict all 9:allow all)	9	9	9	6-17
				01	ARS TRS Level (NN=TRS Class 01-50)	NN	0001	CLS NN TRS LV	0-9 TRS Level (0:restrict all 9:allow all)	9	9	9	6-19
							0002	CLS NN ARS LV	0-9 ARS Level	9	9	9	6-20
							0003	CLS NN QT	0:no queuing 1:queuing	1	1	1	6-21

Appendix A

FF6	TRS/ARS Program	Address No./Display		Address No./Display		Entry	Address No./Display		Available Settings	Defaults US	Defaults UK	Defaults CH	Page No.
				02	TRS CLS Set	NN	0001	CLS NN DGT TRS	0:no restr. 1-20:max.no. digits in string	0	0	0	6-23
							0002	CLS NN INCOME TRS	0:Allow dialing during incoming call 1:Do not allow	0	0	0	6-24
					(NN=TRS Class 01-50)		0003	CLS NN SSD TRS	0:Do not allow 1:Allow	0	0	0	6-25
							0004	CLS NN */# TRS	0:Allow 1:Do not allow	0	0	0	6-25
				03	SSD TRS Override		0001	SSD Override #	000-799 (highest SSD to override TRS)	0	0	0	6-26
		2	ARS	00	TL Day of Week		0001	SUN TL Pattern	1-4 (Time List Table No.)	1	1	1	6-27
							0002	MON TL Pattern	1-4 (Time List Table No.)	1	1	1	6-27
							0003	TUE TL Pattern	1-4 (Time List Table No.)	1	1	1	6-27
							0004	WED TL Pattern	1-4 (Time List Table No.)	1	1	1	6-27
							0005	THU TL Pattern	1-4 (Time List Table No.)	1	1	1	6-27
							0006	FRI TL Pattern	1-4 (Time List Table No.)	1	1	1	6-27
							0007	SAT TL Pattern	1-4 (Time List Table No.)	1	1	1	6-27
				01	TL Day of Year		0001	01:Special Date	0101-1231 (month/day)	0	0	0	6-28
							0002	01:Date Pattern	1-4 (Time List Table No.)	1	1	1	6-28
							0003	02:Special Date	0101-1231 (month/day)	0	0	0	6-28
							0004	02:Date Pattern	1-4 (Time List Table No.)	1	1	1	6-28
							0005	03:Special Date	0101-1231 (month/day)	0	0	0	6-28
							...	...	...	...	...	...	6-28
							0040	20:Date Pattern	1-4 (Time List Table No.)	1	1	1	6-28
				02	Time List Table	xpp	0001	PTNx TLpp TZ1 T	0000-2359 (Time Period 1 start time)	0	0	0	6-29
					(x=0-3 for Tables 1-4) (pp=Pattern 01-50)		0002	PTNx TLpp TZ1 R	0:none 1-100:Time Period 1 Route List No.	0	0	0	6-29
							0003	PTNx TLpp TZ2 T	0000-2359 (Time Period 2 start time)	0	0	0	6-29
							0004	PTNx TLpp TZ2 R	0:none 1-100:Time Period 2 Route List No.	0	0	0	6-29
							0005	PTNx TLpp TZ3 T	0000-2359 (Time Period 3 start time)	0	0	0	6-29
							0006	PTNx TLpp TZ3 R	0:none 1-100:Time Period 3 Route List No.	0	0	0	6-29
							0007	PTNx TLpp TZ4 T	0000-2359 (Time Period 4 start time)	0	0	0	6-29
							0008	PTNx TLpp TZ4 R	0:none 1-100:Time Period 4 Route List No.	0	0	0	6-29
							0009	PTNx TLpp TZ5 T	0000-2359 (Time Period 5 start time)	0	0	0	6-29
							0010	PTNx TLpp TZ5 R	0:none 1-100:Time Period 5 Route List No.	0	0	0	6-29
				03	Route List TBL	NNN	0001	RLNNN P1 RT #	0:none 001-200:1st priority Route No.	0	0	0	6-30
					(NNN=Route List 001-100)		0002	RLNNN P1 ARS LV	0-9:ARS Level	0	0	0	6-31
							0003	RLNNN P2 RT #	0:none 001-200:2nd priority Route No.	0	0	0	6-31
							0004	RLNNN P2 ARS LV	0-9:ARS Level	0	0	0	6-32
							0005	RLNNN P2 WT	0:Alarm Off 1:Alarm On	0	0	0	6-32
							0006	RLNNN P3 RT #	0:none 001-200:3rd priority Route No.	0	0	0	6-33
							0007	RLNNN P3 ARS LV	0-9:ARS Level	0	0	0	6-33
							0008	RLNNN P3 WT	0:Alarm Off 1:Alarm On	0	0	0	6-34
							0009	RLNNN P4 RT #	0:none 001-200:4th priority Route No.	0	0	0	6-34
							0010	RLNNN P4 ARS LV	0-9:ARS Level	0	0	0	6-35
							0011	RLNNN P4 WT	0:Alarm Off 1:Alarm On	0	0	0	6-35
							0012	RLNNN P5 RT #	0:none 001-200:5th priority Route No.	0	0	0	6-36
							0013	RLNNN P5 ARS LV	0-9:ARS Level	0	0	0	6-36
							0014	RLNNN P5 WT	0:Alarm Off 1:Alarm On	0	0	0	6-37
				04	Route Table	NNN	0001	RTNNN TRUNK G #	0:none 1-99:Trunk Group	0	0	0	6-38
					(NNN=Route 001-200)		0002	RTNNN MD TBL #	0:none 1-50:Dial Conversion Pattern	0	0	0	6-39

Appendix A

FF6	TRS/ARS Program	Address No./Display	Address No./Display		Entry	Address No./Display		Available Settings	Defaults US	Defaults UK	Defaults CH	Page No.
			05	Digit Modify TBL (NN=Dial Conversion Pattern 01-50)	NN	0001	MD NN Delete DGT	0-24:no. digits removed from beginning	0	0	0	6-40
						0002	MD NN Prefix DG	up to 10 char., including: 0-9, *, #, OT-4 (pause), OT-5 +6 (DTMF conversion), OT-5 +9 (itemized code), OT-5 +(1-5) (authorization code)	--	--	--	6-41
						0003	MD NN Suffix DGT	up to 10 char., including: 0-9, *, #, OT-4 (pause), OT-5 +6 (DTMF conversion), OT-5 +9 (itemized code), OT-5 +(1-5) (authorization code)	--	--	--	6-42
			06	Authorization ID		0001	Authorization 1	up to 10 digits, including 0-9	--	--	--	6-43
						0002	Authorization 2	up to 10 digits, including 0-9	--	--	--	6-43
						...	...	...	...	...	...	6-43
						0008	Authorization 8	up to 10 digits, including 0-9	--	--	--	6-43
			07	Closed Number (NNN=Closed Number Entry 001-150)	NNN	0001	CNNN Closed #	up to 4 digits, including 0-9, *, #	--	--	--	6-44
						0002	CNNN Follow DGT	0-16 (max. no. of digits after Closed No.)	0	0	0	6-45
						0003	CNNN TRS Level	0-8 (TRS Level)	0	0	0	6-45
						0004	CNNN Route Type	0:Route 1:Route List	0	0	0	6-46
						0005	CNNN Route #	0:none 1-200:Route or 1-100:Route List	0	0	0	6-46
			08	Tandem (NN=Tandem Exchange Entry 01-50)	NN	0001	TNN Tandem #	up to 4 digits, including 0-9, *, #	--	--	--	6-47
						0002	TNN Follow DGT	0-16 (max. no. of digits after Tandem No.)	0	0	0	6-48
						0003	TNN Route Type	0:Route 1:Route List 2:same PBX	0	0	0	6-48
						0004	TNN Route #	0:none 1-200:Route or 1-100:Route List	0	0	0	6-49

FF7: Applications (page 7-1)

FF7	Application I/F	Address No./Display		Slot Pos.	Address No./Display			Address No./Display			Available Settings	Defaults US	Defaults UK	Defaults CH	Page No.
		0	Built-In VM (B=Cabinet 1-6) (11=Slot 11)	B11	00	Built-In VM #					0:none 1-4:VM Unit No.	0	0	0	7-3
					01	(NN=Virtual Port No. 01-16)	NN	00	VM Virtual #		0-9999 (Ext.No.)	--	--	--	7-4
								01	VM Tenant Group		1-72 (Tenant Group)	1	1	1	7-5
								020	VM TRS Class		1-50 (TRS Class/Day Mode)	1	1	1	7-6
								021	VM TRS Class		1-50 (TRS Class/Night Mode)	1	1	1	7-6
								03	VM DPAD Class		1-8 (Digital Pad Class)	6	6	6	7-7
					02		01	0001	PTN1 VM S-CAB		0-6 (1st Cabinet)	0	0	0	7-8
								0002	PTN1 VM S-SLOT		00-12 (1st Slot)	00	00	00	7-8
								0003	PTN1 VM ?-CAB		0-6 (Last Cabinet)	0	0	0	7-8
								0004	PTN1 VM ?-SLOT		00-12 (Last Slot)	00	00	00	7-8
								0005	PTN2 VM S-CAB		0-6 (1st Cabinet)	0	0	0	7-8
								...	...		...	...	...	...	7-8
								0016	PTN4 VM ?-SLOT		00-12 (Last Slot)	00	00	00	7-8
					03	VM Detail Set					(see Section 510: Built-In VM Reference)				7-9
		1	Built-In ACD (B=Cabinet 1-6) (11=Slot 11)	B11	00	Built-In ACD #					0:none 1-2:ACD 1-2	0	0	0	7-9
					01	(NN=ACD Port 01-24)	NN	00	ACD Virtual #		0-9999 (Ext.No.)	--	--	--	7-11
								01	ACD Tenant Group		1-72 (Tenant Group)	1	1	1	7-12
								020	Day 1/2 TRS CLS		1-50 (TRS Class/Day Mode)	1	1	1	7-12
								021	Night TRS CLS		1-50 (TRS Class/Night Mode)	1	1	1	7-12
								03	ACD DPAD Class		1-8 (Digital Pad Class)	6	6	6	7-13
					02		01	0001	PTN1 ACD S-CAB		0-6 (1st Cabinet)	0	0	0	7-14
								0002	PTN1 ACD S-SLOT		00-12 (1st Slot)	00	00	00	7-14
								0003	PTN1 ACD _-CAB		0-6 (Last Cabinet)	0	0	0	7-14

FF7	Application I/F	Address No./Display		Slot Pos.	Address No./Display		Address No./Display			Available Settings	Defaults US	UK	CH	Page No.
							0004	PTN1 ACD _-SLOT		00-12 (Last Slot)	00	00	00	7-14
							0005	PTN2 ACD S-CAB		0-6 (1st Cabinet)	0	0	0	7-14
							...	...		...	...	...	...	7-14
							0016	PTN4 ACD _-SLOT		00-12 (Last Slot)	00	00	00	7-14
					03	ACD Detail Set				(see Section 520: ACD Reference)				7-15
		2	API	BSS	00	API Number				0:none 1-6:API 1-6	0	0	0	7-16
			(B=1-6 SS=01-12)		01	(NN=channel 01-08)	NN	00	API Virtual #	0-9999 (Ext.No.)	--	--	--	7-17
								01	API Tenant Group	1-72 (Tenant Group)	1	1	1	7-18
								020	API TRS Class	1-50 (TRS Class/Day Mode)	1	1	1	7-18
								021	API TRS Class	1-50 (TRS Class/Night Mode)	1	1	1	7-18
								03	API DPAD Class	1-8 (Digital Pad Class)	3 (for DEC) 1 (for AEC)			7-19
					02		01	0001	API Data Format	0:7bits/Even/2stop 1:7bits/Odd/2stop 2:7bits/Even/1stop 3:7bits/Odd/1stop 4:8bits/No/2stop 5:8bits/No/1stop 6:8bits/Even/1stop 7:8bits/Odd/1stop	6	6	6	7-19
								0002	API Baud Rate	0:300bps 1:600bps 2:1200bps 3:2400bps 4:4800bps 5:9600bps 6:19200bps	5	5	5	7-20
							02	0001	PTN1 API S-CAB	0-6 (1st Cabinet)	0	0	0	7-21
								0002	PTN1 API S-SLOT	00-12 (1st Slot)	00	00	00	7-21
								0003	PTN1 API _-CAB	0-6 (Last Cabinet)	0	0	0	7-21
								0004	PTN1 API _-SLOT	00-12 (Last Slot)	00	00	00	7-21
								0005	PTN2 API S-CAB	0-6 (1st Cabinet)	0	0	0	7-21
								...	...	...	...	...	...	7-21
								0016	PTN4 API _-SLOT	00-12 (Last Slot)	00	00	00	7-21

FF8 0: Dealer Maintenance (page 8-4)

FF8	Maintenance	0	Dealer Maint	Addr.No./Display		Addr.No./Display		Addr.No./Display		Addr.No./Display		Available Settings	Defaults US	UK	CH	Page No.
				00	Flexible Screen	0	Idle/DT Status	01	Idle/DT Function			Fixed Feature Code for Soft Keys 1-50 during Idle or Dial Tone	see table, pg. 8-9			8-9
								...	...							8-9
								50	Idle/DT Function							8-9
						1	RBT Status	01	RBT Function			Fixed Feature Code for Soft Keys 1-10 during Ringback Tone	Transfer: *37			8-11
								02	RBT Function				Voice Call: *54			8-11
								03	RBT Function				MsgWtSet: *55			8-11
								04	RBT Function				--			8-11
								...	...				--			8-11
								10	RBT Function				--			8-11
						2	BT Status	01	BT Function			Fixed Feature Code for Soft Keys 1-10 during Busy Tone	Callback: *49			8-12
								02	BT Function				Camp-On: *50			8-12
								03	BT Function				MsgWtSet: *51			8-12
								04	BT Function				BusyOvrrd: *53			8-12
								05	BT Function				OHVA: *70			8-12
								06	BT Function				Transfer: *37			8-12
								07	BT Function				--			8-12
								...	...				--			8-12
								10	BT Function				--			8-12

Appendix A

FF8	Maintenance	0	Dealer Maint	*Addr.No./Display*		*Addr.No./Display*		*Addr.No./Display*		*Addr.No./Display*		*Available Settings*	*Defaults* US	UK	CH	*Page No.*
						3	Talk Status	01	Talk Function			Fixed Feature Code for Soft Keys 1-10 during Talk	Transfer: *37			8-13
								02	Talk Function				3-PartyCnf: *36			8-13
								03	Talk Function				Recll/Flsh: *39			8-13
								04	Talk Function				Acct.Cd.En: *57			8-13
								05	Talk Function				--			8-13
								...	...				--			8-13
								10	Talk Function				--			8-13
				01	Traffic Measure	0	Traffic Control	00	Store Control	1	Store Start/Stop	0:Stop 1:Start	0	0	0	8-14
										2	Not Used	0:Stop 1:Start	0	0	0	8-14
										3	Not Used					8-15
										4	Not Used					8-15
										5	Not Used					8-15
										6	Not Used					8-15
								01	00:00-00:29			0:not stored 1-16:Data Area 1-16	0	0	0	8-15
								02	00:30-00:59			0:not stored 1-16:Data Area 1-16	0	0	0	8-15
								03	01:00-01:29			0:not stored 1-16:Data Area 1-16	0	0	0	8-15
								04	01:30-01:59			0:not stored 1-16:Data Area 1-16	0	0	0	8-15
								05	02:00-02:29			0:not stored 1-16:Data Area 1-16	0	0	0	8-15
								06	02:30-02:59			0:not stored 1-16:Data Area 1-16	0	0	0	8-15
								07	03:00-03:29			0:not stored 1-16:Data Area 1-16	0	0	0	8-15
								08	03:30-03:59			0:not stored 1-16:Data Area 1-16	0	0	0	8-15
								09	04:00-04:29			0:not stored 1-16:Data Area 1-16	0	0	0	8-15
								10	04:30-04:59			0:not stored 1-16:Data Area 1-16	0	0	0	8-15
								11	05:00-05:29			0:not stored 1-16:Data Area 1-16	0	0	0	8-15
								12	05:30-05:59			0:not stored 1-16:Data Area 1-16	0	0	0	8-15
								13	06:00-06:29			0:not stored 1-16:Data Area 1-16	0	0	0	8-15
								14	06:30-06:59			0:not stored 1-16:Data Area 1-16	0	0	0	8-15
								15	07:00-07:29			0:not stored 1-16:Data Area 1-16	0	0	0	8-15
								16	07:30-07:59			0:not stored 1-16:Data Area 1-16	0	0	0	8-15
								17	08:00-08:29			0:not stored 1-16:Data Area 1-16	0	0	0	8-15
								18	08:30-08:59			0:not stored 1-16:Data Area 1-16	0	0	0	8-15
								19	09:00-09:29			0:not stored 1-16:Data Area 1-16	0	0	0	8-15
								20	09:30-09:59			0:not stored 1-16:Data Area 1-16	0	0	0	8-15
								21	10:00-10:29			0:not stored 1-16:Data Area 1-16	0	0	0	8-15
								22	10:30-10:59			0:not stored 1-16:Data Area 1-16	0	0	0	8-15
								23	11:00-11:29			0:not stored 1-16:Data Area 1-16	0	0	0	8-15
								24	11:30-11:59			0:not stored 1-16:Data Area 1-16	0	0	0	8-15

FF8	Maintenance	0	Dealer Maint	Addr.No./Display		Addr.No./Display		Addr.No./Display		Addr.No./Display		Available Settings	Defaults US	Defaults UK	Defaults CH	Page No.
								25	12:00-12:29			0:not stored 1-16:Data Area 1-16	0	0	0	8-15
								26	12:30-12:59			0:not stored 1-16:Data Area 1-16	0	0	0	8-15
								27	13:00-13:29			0:not stored 1-16:Data Area 1-16	0	0	0	8-15
								28	13:30-13:59			0:not stored 1-16:Data Area 1-16	0	0	0	8-15
								29	14:00-14:29			0:not stored 1-16:Data Area 1-16	0	0	0	8-15
								30	14:30-14:59			0:not stored 1-16:Data Area 1-16	0	0	0	8-15
								31	15:00-15:29			0:not stored 1-16:Data Area 1-16	0	0	0	8-15
								32	15:30-15:59			0:not stored 1-16:Data Area 1-16	0	0	0	8-15
								33	16:00-16:29			0:not stored 1-16:Data Area 1-16	0	0	0	8-15
								34	16:30-16:59			0:not stored 1-16:Data Area 1-16	0	0	0	8-15
								35	17:00-17:29			0:not stored 1-16:Data Area 1-16	0	0	0	8-15
								36	17:30-17:59			0:not stored 1-16:Data Area 1-16	0	0	0	8-15
								37	18:00-18:29			0:not stored 1-16:Data Area 1-16	0	0	0	8-15
								38	18:30-18:59			0:not stored 1-16:Data Area 1-16	0	0	0	8-15
								39	19:00-19:29			0:not stored 1-16:Data Area 1-16	0	0	0	8-15
								40	19:30-19:59			0:not stored 1-16:Data Area 1-16	0	0	0	8-15
								41	20:00-20:29			0:not stored 1-16:Data Area 1-16	0	0	0	8-15
								42	20:30-20:59			0:not stored 1-16:Data Area 1-16	0	0	0	8-15
								43	21:00-21:29			0:not stored 1-16:Data Area 1-16	0	0	0	8-15
								44	21:30-21:59			0:not stored 1-16:Data Area 1-16	0	0	0	8-15
								45	22:00-22:29			0:not stored 1-16:Data Area 1-16	0	0	0	8-15
								46	22:30-22:59			0:not stored 1-16:Data Area 1-16	0	0	0	8-15
								47	23:00-23:29			0:not stored 1-16:Data Area 1-16	0	0	0	8-15
								48	23:30-23:59			0:not stored 1-16:Data Area 1-16	0	0	0	8-15
						1	Outgoing					0:Print 1:Do not print				8-17
						2	Incoming					0:Print 1:Do not print				8-18
						3	Intercom					0:Print 1:Do not print				8-18
				02	Trunk Name			1	Trunk No. 1		A B C D E F 001	Trunk Name (max.10 char.)	--	--	--	8-19
								...	...		...	...	--	--	--	8-19
								576	Trunk No. 576		A B C D E F 576	Trunk Name (max.10 char.)	--	--	--	8-19
				03	Fault Records	0	Fault INFO DISP			1	Major Fault					8-21
										2	Minor Fault					8-21
										3	Alarm Fault					8-22
						1	Fault Output			1						8-22

Appendix A

FF8	Maintenance	0	Dealer Maint	*Addr.No./Display*		*Addr.No./Display*		*Addr.No./Display*		*Addr.No./Display*		*Available Settings*	*Defaults* US	UK	CH	*Page No.*
				04	Card Control	0	Card Reset	BSS (B=Cabinet 1-6 SS=Slot 01-12)			Card Status	0:Not installed, or idle 1:Installed and busy				8-23
						1	Card Information			00	Card ID	Card Type 01-99 displays				8-23
										01	Card Version	Card Version displays				8-24
				05	Line Control	0	Line Status	BSSCC (B=Cab.1-6 SS=Slot 01-12 CC=Ch. 01-24)				(display) (input) 0: Normal Lockout 1: Trk.Close Release 2: wait for " Trk.Close	0	0	0	8-25
						1	Line ERR Control	BSSC (B=Cab.1-6 SS=Slot 01-12 C=1 or 1-4)				0:Clear 1:Read only	--	--	--	8-25
						2	Error INFO DISP			00	Loss ALM Count	(digits)	0000			8-26
										01	OFF ALM Count	(digits)	0000			8-26
										02	SYNC ALM Count	(digits)	0000			8-27
										03	Yellow ALM Count	(digits)	0000			8-27
										04	AIS ALM Count	(digits)	0000			8-28
										05	SLIP ALM Count	(digits)	0000			8-28
										06	CRC ALM Count	(digits)	0000			8-29
										07	BPV ALM Count	(digits)	0000			8-29
										08	Layer1 Status	Layer1 Status Error count	00			8-30
										09	Layer1 R-Error	Layer1 Receive Error cnt.	000000			8-30
										10	Layer1 T-Error	Layer1 Transmit Error cnt.	000000			8-31
										11	TEI0 Layer2ERR1	TEI-0/Layer2/Error#1 count	000000			8-31
										12	TEI0 Layer2ERR2	TEI-0/Layer2/Error#2 count	000000			8-31
										13	TEI0 Layer2ERR3	TEI-0/Layer2/Error#3 count	000000			8-31
										14	TEI0 Layer2ERR4	TEI-0/Layer2/Error#4 count	000000			8-31
										15	TEI0 Layer2ERR5	TEI-0/Layer2/Error#5 count	000000			8-31
										16	TEI1 Layer2ERR1	TEI-1/Layer2/Error#1 count	000000			8-31
										...	...	...	000000			8-31
										90	TEI15Layr2ERR5	TEI-15/Layer2/Error#5 cnt.	000000			8-31
						3	Loop Back 1				LP01 Start/Stop	0:Stop 1:Start	1	1	1	8-34
						4	Loop Back 2				LP02 Start	1:Start	1	1	1	8-34
				06	ISDN CH Control		BSSC	0		1	CH01 Lockout	0:Lockout 1:Lockout	0	0	0	8-35
										2	CH02 Lockout	(same as above)	0	0	0	8-35
										3	CH03 Lockout	(same as above)	0	0	0	8-35
										4	CH04 Lockout	(same as above)	0	0	0	8-35
										5	CH05 Lockout	(same as above)	0	0	0	8-35
										6	CH06 Lockout	(same as above)	0	0	0	8-35
								1		1	CH07 Lockout	(same as above)	0	0	0	8-35
										2	CH08 Lockout	(same as above)	0	0	0	8-35
										3	CH09 Lockout	(same as above)	0	0	0	8-35
										4	CH10 Lockout	(same as above)	0	0	0	8-35
										5	CH11 Lockout	(same as above)	0	0	0	8-35
										6	CH12 Lockout	(same as above)	0	0	0	8-35
								2		1	CH13 Lockout	(same as above)	0	0	0	8-35
										2	CH14 Lockout	(same as above)	0	0	0	8-35
										3	CH15 Lockout	(same as above)	0	0	0	8-35
										4	CH16 Lockout	(same as above)	0	0	0	8-35
										5	CH17 Lockout	(same as above)	0	0	0	8-35
										6	CH18 Lockout	(same as above)	0	0	0	8-35

FF8	Maintenance	0	Dealer Maint	Addr.No./Display		Addr.No./Display		Addr.No./Display		Addr.No./Display		Available Settings	Defaults US	Defaults UK	Defaults CH	Page No.
								3		1	CH19 Lockout	0:Lockout 1:Lockout	0	0	0	8-35
										2	CH20 Lockout	(same as above)	0	0	0	8-35
										3	CH21 Lockout	(same as above)	0	0	0	8-35
										4	CH22 Lockout	(same as above)	0	0	0	8-35
										5	CH23 Lockout	(same as above)	0	0	0	8-35
										6	CH24 Lockout	(same as above)	0	0	0	8-35
				07	Bus Monitor	0		00	Save Start/Stop			0:Stop/Do not save 1:Start	0	0	0	8-37
								01	Stop SR1G Code1			(code)				8-35
								02	Code1 DataPos			(code)				8-35
								03	Code1 StopData			(code)				8-35
								04	Code2 Trigger			(code)				8-35
								05	Code2 DataPos			(code)				8-35
								06	Code2 StopData			(code)				8-35
								07	Code3 Trigger			(code)				8-35
								08	Code3 DataPos			(code)				8-35
								09	Code3 StopData			(code)				8-35
								10	Code4 Trigger			(code)				8-35
								11	Code4 DataPos			(code)				8-35
								12	Code4 StopData			(code)				8-35
								13	Code5 Trigger			(code)				8-35
								14	Code5 DataPos			(code)				8-35
								15	Code5 StopData			(code)				8-35
				08	Table Dump							vvvv-dddd-iiii				8-39
				09	Memory Dump							aaaaaaa				8-40
				10	DID Name		DID Number		A B C D E F 001			up to 10 char., including A-z, 0-9, * and #	--			8-41

Appendix A

FF8 1: User Maintenance (page 8-42)

FF8	Maintenance	1	User Maint	Addr.No./Display		Addr.No./Display		Addr.No./Display		Entry	Available Settings	Defaults US	Defaults UK	Defaults CH	Page No.
				00	System Clock	0	Date				YYMMDD (Year/Day/Mo.)	970101			8-42
						1	Time				HHMM	00:00			8-42
						2	Week of the Day				1:Mon 2:Tue 3:Wed 4:Thu 5:Fri 6:Sat 7:Sun	3	3	3	8-43
				01	PSD	0	PSD Numbers		Ext# or Name 80	PSD Cd	phone no., up to 24 char.				8-44
						1	PSD Names		ABCDEF 80	PSD Cd	name, up to 7 char.				8-45
				02	SSD	0	SSD Numbers	SSD Code (00-79) or (000-799)			phone no., up to 24 char.				8-46
						1	SSD Names	SSD Code (00-79) or (000-799)			name, up to 16 char.				8-47
						2	SSD Index	1	Index 1		name, up to 4 char.				8-48
								2	Index 2		name, up to 4 char.				8-48
				03	Extension Names	0	Ext. Name		Ext.No.		name, up to 10 char.				8-49
						1	Ext. Index	1	Index 1		name, up to 4 char.				8-49
								2	Index 2		name, up to 4 char.				8-49
				04	Verified ID Code	001	(entry no. 001)	0001	001:Account Code		Ver.Acct.Code 0000-9999	--	--	--	8-50
						...	...		...		...				8-50
						500	(entry no. 500)		500:Account Code		Ver.Acct.Code 0000-9999	--	--	--	8-50
						001	(entry no. 001)	0002	001:TRS Class		TRS Class 1-50	--	--	--	8-50
						...	...		...		...				8-50
						500	(entry no. 500)		500:TRS Class		TRS Class 1-50	--	--	--	8-50
				05	Call-Fwd ID-VM				Ext.No.		CF ID code, up to 16 char.	--	--	--	8-51
				06	MSG ID				Ext.No.		MSGkey cd, up to 16 char.	--	--	--	8-52
				07	System Mode	0	Mode Schedule	00	PTN 1-1 Start T	HHMM	Hour/Minute				8-53
								01	PTN 1-1 Mode	0-2	0:Day1 1:Day2 2:Night				8-53
								02	PTN 1-2 Start T	HHMM	Hour/Minute				8-53
								03	PTN 1-2 Mode	0-2	0:Day1 1:Day2 2:Night				8-53
								04	PTN 1-3 Start T	HHMM	Hour/Minute				8-53
								05	PTN 1-3 Mode	0-2	0:Day1 1:Day2 2:Night				8-53
								06	PTN 1-4 Start T	HHMM	Hour/Minute				8-53
								07	PTN 1-4 Mode	0-2	0:Day1 1:Day2 2:Night				8-53
								08	PTN 1-5 Start T	HHMM	Hour/Minute				8-53
								09	PTN 1-5 Mode	0-2	0:Day1 1:Day2 2:Night				8-53
								10	PTN 2-1 Start T	HHMM	Hour/Minute				8-54
								11	PTN 2-1 Mode	0-2	0:Day1 1:Day2 2:Night				8-54
								12	PTN 2-2 Start T	HHMM	Hour/Minute				8-54
								13	PTN 2-2 Mode	0-2	0:Day1 1:Day2 2:Night				8-54
								14	PTN 2-3 Start T	HHMM	Hour/Minute				8-54
								15	PTN 2-3 Mode	0-2	0:Day1 1:Day2 2:Night				8-54
								16	PTN 2-4 Start T	HHMM	Hour/Minute				8-54
								17	PTN 2-4 Mode	0-2	0:Day1 1:Day2 2:Night				8-54
								18	PTN 2-5 Start T	HHMM	Hour/Minute				8-54
								19	PTN 2-5 Mode	0-2	0:Day1 1:Day2 2:Night				8-54
								20	PTN 3-1 Start T	HHMM	Hour/Minute				8-54
								21	PTN 3-1 Mode	0-2	0:Day1 1:Day2 2:Night				8-54
								22	PTN 3-2 Start T	HHMM	Hour/Minute				8-54
								23	PTN 3-2 Mode	0-2	0:Day1 1:Day2 2:Night				8-54
								24	PTN 3-3 Start T	HHMM	Hour/Minute				8-54
								25	PTN 3-3 Mode	0-2	0:Day1 1:Day2 2:Night				8-54
								26	PTN 3-4 Start T	HHMM	Hour/Minute				8-54
								27	PTN 3-4 Mode	0-2	0:Day1 1:Day2 2:Night				8-54

Appendix A

FF8	Maintenance	1	User Maint	Addr.No./Display		Addr.No./Display		Addr.No./Display		Entry	Available Settings	Defaults US	Defaults UK	Defaults CH	Page No.
								28	PTN 3-5 Start T	HHMM	Hour/Minute				8-54
								29	PTN 3-5 Mode	0-2	0:Day1 1:Day2 2:Night				8-54
						1	Mode Special Da	000	Special Day 01	MMDD	Month/Day				8-55
								001	S Day 01-1 Star	HHMM	Hour/Minute				8-55
								002	S Day 01-1 Mode	0-5	0=none 1=Day1 2=Day2 3=Night 4=Night1 5=Night2				8-55
								003	S Day 01-2 Star	HHMM	Hour/Minute				8-55
								004	S Day 01-2 Mode	0-5	0=none 1=Day1 2=Day2 3=Night 4=Night1 5=Night2				8-55
								005	S Day 01-3 Star	HHMM	Hour/Minute				8-55
								006	S Day 01-3 Mode	0-5	0=none 1=Day1 2=Day2 3=Night 4=Night1 5=Night2				8-55
								007	S Day 01-4 Star	HHMM	Hour/Minute				8-55
								008	S Day 01-4 Mode	0-5	0=none 1=Day1 2=Day2 3=Night 4=Night1 5=Night2				8-55
								009	S Day 01-5 Star	HHMM	Hour/Minute				8-55
								010	S Day 01-5 Mode	0-5	0=none 1=Day1 2=Day2 3=Night 4=Night1 5=Night2				8-55
								011	Special Day 02	MMDD	Month/Day				8-55
								...	(repeat addresses 001-010 above)						8-55
								022	Special Day 03	MMDD	Month/Day				8-55
								...	(repeat addresses 001-010 above)						8-55
								033	Special Day 04	MMDD	Month/Day				8-55
								...	(repeat addresses 001-010 above)						8-55
								044	Special Day 05	MMDD	Month/Day				8-55
								...	(repeat addresses 001-010 above)						8-55
								055	Special Day 06	MMDD	Month/Day				8-55
								...	(repeat addresses 001-010 above)						8-55
								066	Special Day 07	MMDD	Month/Day				8-55
								...	(repeat addresses 001-010 above)						8-55
								077	Special Day 08	MMDD	Month/Day				8-55
								...	(repeat addresses 001-010 above)						8-55
								088	Special Day 09	MMDD	Month/Day				8-55
								...	(repeat addresses 001-010 above)						8-55
								099	Special Day 10	MMDD	Month/Day				8-55
								...	(repeat addresses 001-010 above)						8-55
								110	Special Day 11	MMDD	Month/Day				8-55
								...	(repeat addresses 001-010 above)						8-55
								121	Special Day 12	MMDD	Month/Day				8-55
								...	(repeat addresses 001-010 above)						8-55
								132	Special Day 13	MMDD	Month/Day				8-55
								...	(repeat addresses 001-010 above)						8-55
								143	Special Day 14	MMDD	Month/Day				8-55
								...	(repeat addresses 001-010 above)						8-55
								154	Special Day 15	MMDD	Month/Day				8-55
								...	(repeat addresses 001-010 above)						8-55
								165	Special Day 16	MMDD	Month/Day				8-55
								...	(repeat addresses 001-010 above)						8-55
								176	Special Day 17	MMDD	Month/Day				8-55
								...	(repeat addresses 001-010 above)						8-55
								187	Special Day 18	MMDD	Month/Day				8-55
								...	(repeat addresses 001-010 above)						8-55

FF8	Maintenance	1	User Maint	Addr.No./Display		Addr.No./Display		Addr.No./Display		Entry	Available Settings	Defaults US	Defaults UK	Defaults CH	Page No.
								198	Special Day 19	MMDD	Month/Day				8-55
								...	(repeat addresses 001-010 above)						8-55
								209	Special Day 20	MMDD	Month/Day				8-55
								...	(repeat addresses 001-009 above)						8-55
								219	S Day 20-5 Mode	0-5	0=none 1=Day1 2=Day2 3=Night 4=Night1 5=Night2				8-55
						2	Mode Except Day	00	PTN 1 Start Day	MMDD	Month/Day (inclusive)				8-59
								01	PTN 1 Stop Day	MMDD	Month/Day (inclusive)				8-59
								02	PTN 2 Start Day	MMDD	Month/Day (inclusive)				8-59
								03	PTN 2 Stop Day	MMDD	Month/Day (inclusive)				8-59
								04	PTN 3 Start Day	MMDD	Month/Day (inclusive)				8-59
								05	PTN 3 Stop Day	MMDD	Month/Day (inclusive)				8-59
								06	PTN 4 Start Day	MMDD	Month/Day (inclusive)				8-59
								07	PTN 4 Stop Day	MMDD	Month/Day (inclusive)				8-59
								08	PTN 5 Start Day	MMDD	Month/Day (inclusive)				8-59
								09	PTN 5 Stop Day	MMDD	Month/Day (inclusive)				8-59
								10	PTN 6 Start Day	MMDD	Month/Day (inclusive)				8-59
								11	PTN 6 Stop Day	MMDD	Month/Day (inclusive)				8-59
						3	D of Week PTN	00	1st SUN Pattern	0-3	0:none 1-3:patterns 1-3				8-60
								01	1st MON Pattern	0-3	0:none 1-3:patterns 1-3				8-60
								02	1st TUE Pattern	0-3	0:none 1-3:patterns 1-3				8-60
								03	1st WED Pattern	0-3	0:none 1-3:patterns 1-3				8-60
								04	1st THU Pattern	0-3	0:none 1-3:patterns 1-3				8-60
								05	1st FRI Pattern	0-3	0:none 1-3:patterns 1-3				8-60
								06	1st SAT Pattern	0-3	0:none 1-3:patterns 1-3				8-60
								07	2nd SUN Pattern	0-3	0:none 1-3:patterns 1-3				8-60
								08	2nd MON Pattern	0-3	0:none 1-3:patterns 1-3				8-60
								09	2nd TUE Pattern	0-3	0:none 1-3:patterns 1-3				8-60
								10	2nd WED Pattern	0-3	0:none 1-3:patterns 1-3				8-60
								11	2nd THU Pattern	0-3	0:none 1-3:patterns 1-3				8-60
								12	2nd FRI Pattern	0-3	0:none 1-3:patterns 1-3				8-60
								13	2nd SAT Pattern	0-3	0:none 1-3:patterns 1-3				8-60
								14	3rd SUN Pattern	0-3	0:none 1-3:patterns 1-3				8-60
								15	3rd MON Pattern	0-3	0:none 1-3:patterns 1-3				8-60
								16	3rd TUE Pattern	0-3	0:none 1-3:patterns 1-3				8-60
								17	3rd WED Pattern	0-3	0:none 1-3:patterns 1-3				8-60
								18	3rd THU Pattern	0-3	0:none 1-3:patterns 1-3				8-60
								19	3rd FRI Pattern	0-3	0:none 1-3:patterns 1-3				8-60
								20	3rd SAT Pattern	0-3	0:none 1-3:patterns 1-3				8-60
								21	4th SUN Pattern	0-3	0:none 1-3:patterns 1-3				8-60
								22	4th MON Pattern	0-3	0:none 1-3:patterns 1-3				8-60
								23	4th TUE Pattern	0-3	0:none 1-3:patterns 1-3				8-60
								24	4th WED Pattern	0-3	0:none 1-3:patterns 1-3				8-60
								25	4th THU Pattern	0-3	0:none 1-3:patterns 1-3				8-60
								26	4th FRI Pattern	0-3	0:none 1-3:patterns 1-3				8-60
								27	4th SAT Pattern	0-3	0:none 1-3:patterns 1-3				8-60
								28	5th SUN Pattern	0-3	0:none 1-3:patterns 1-3				8-60
								29	5th MON Pattern	0-3	0:none 1-3:patterns 1-3				8-60
								30	5th TUE Pattern	0-3	0:none 1-3:patterns 1-3				8-60
								31	5th WED Pattern	0-3	0:none 1-3:patterns 1-3				8-60
								32	5th THU Pattern	0-3	0:none 1-3:patterns 1-3				8-60

FF8	Maintenance	1	User Maint	*Addr.No./Display*		*Addr.No./Display*		*Addr.No./Display*		*Entry*	*Available Settings*	*Defaults*			*Page No.*
												US	*UK*	*CH*	
								33	5th FRI Pattern		0:none 1-3:patterns 1-3				8-60
								34	5th SAT Pattern		0:none 1-3:patterns 1-3				8-60
				08	Walking TRS		(enter Ext.No.)		Walking ID XXXX	NNNN	4-digit Code				8-61
				09	Call-Fwd DEST	0	CFWD-Busy		(enter Ext.No.)	0-9999	Destination Extension No.				8-62
						1	CFWD-NoANS		(enter Ext.No.)	0-9999	Destination Extension No.				8-62
				10	Caller ID Log Ext			001	Enter EXT #	0-9999	Extension No.				8-64
								...	...	...	...				8-64
								120	Enter EXT #	0-9999	Extension No.				8-64

Appendix A

Index (Section 400-Programming)

Symbols

Numeric

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