Strata CIX and CTX
Telephone Button Programming Manual

November 2004

Strata CIX and CTX
General End User Information

The Strata CIX, CTX28, CTX100 and CTX670 Digital Business Telephone Systems are registered in accordance with the provisions of Part 68 of the Federal Communications Commissionís Rules and Regulations.

Refer to the General Description or Installation and Maintenance Manual for your system for information on:

- FCC Requirements
- FCC registration Number
- Part 68 complaience
- Ringer Equivalence number
- Network connection information
- USOC jack required
- Network Requirements
- Authorized Network Parts
- Radio Frequency Interference
- UL Requirements
- Important Music-on-Hold requirements
- Industry Canada label identifies certified equipment

This system is listed with Underwriters Laboratory.

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CIX-PM-PHONE-VA

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Telephone Button Programming

1

This chapter discusses the button programming interface provided with Strata CIX / CTX. This chapter also includes Button Programming examples, procedures, and tables to program 100~800 series programs. This chapter has tables that list programs sequentially by program number. Tables found below a program table contain required information for the above program.

Important! *If you do not program button sequences correctly, the DKT LCD will display an error code. Refer to Chapter 2–System Error Codes.*

Record Sheet Overview

Fill out the Record Sheets (see Figure 1-1 as an example), then enter this data using a 20-button LCD digital (DKT) telephone.

Record Sheet
Provides a list of available features. The sheet is used to record the assignment of features or the operation of each program. Each sheet provides space to record data. This data will be referred to when programming the system.

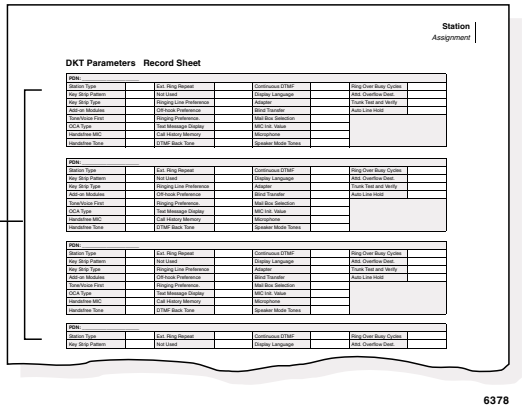

Figure 1-1 System Record Sheet Sample

Telephone Button Overview

Strata CTX programmers can access programming mode from any DKT LCD telephone, except DKTs connected to an RDSU. A 20-button telephone (shown below) is required to ensure full access to all programming parameters. The telephone button programming interface enables limited programming capabilities over ranges of stations or trunks.

Note Telephones connected to an RDSU cannot be used to program Strata CTX.

Figure 1-2 shows the telephone button pad for the DKT3020-series digital telephone or IPT1020-SD.

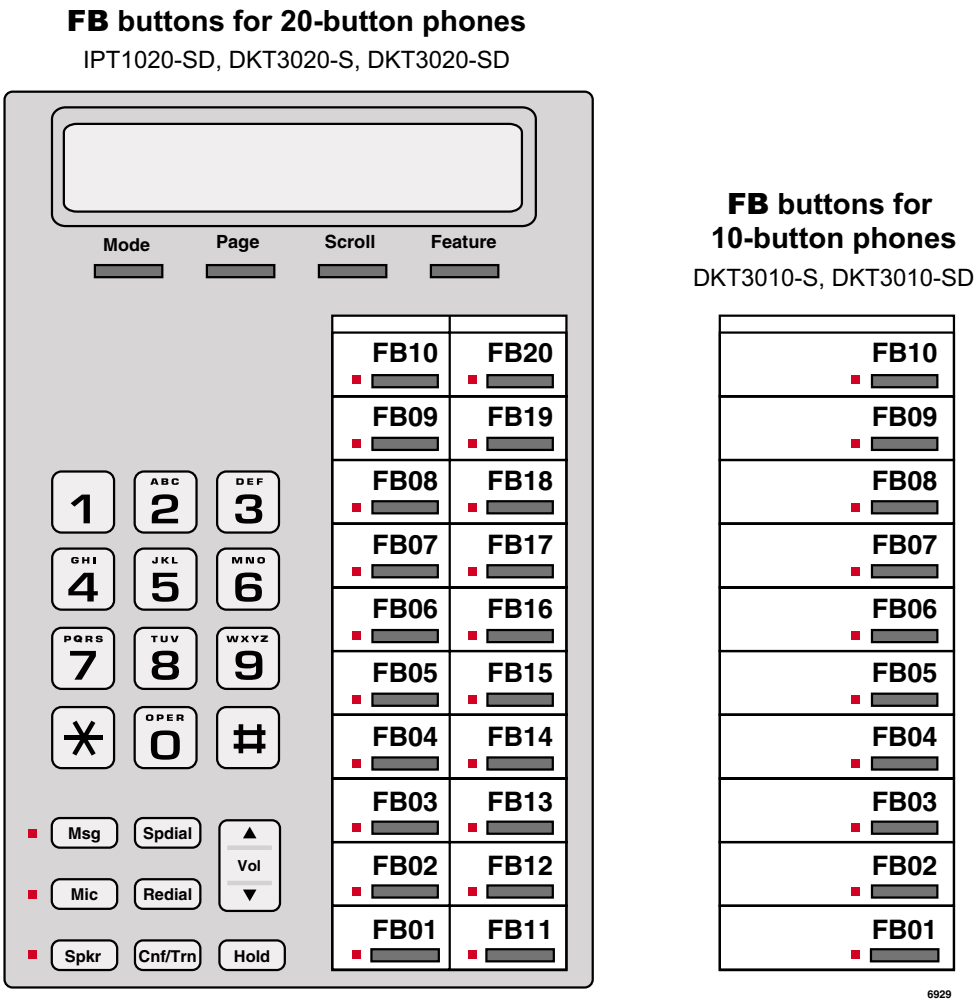

Figure 1-2 DKT3010/3020 and IPT1020-SD Button Telephones

Telephone Button Commands

1. Use the following buttons to execute the commands:
   - Hold ñ Enter.
   - Page/Scroll ñ Scroll up or down.
   - Spkr ñ This delimiter moves cursors between sub-parameter values.
   - Vol▲ ñ Escape. Vol▲ displays as & on the LCD. Press Vol▲ to program # or * in dialing sequences.
   - Vol▼ ñ Back space for line editing.
   - # # Hold ñ Cancel.
   - * ñ Use this button between values to specify a range of objects to be programmed (e.g., 1001*1005 enables programming of stations 1001 through 1005).
   - ** ñ Use this button between values to specify a set of objects to be programmed (e.g., 1001**1005**1012 enables programming of stations 1001, 1005 and 1012).
   - Off-hook ñ lift and replace the handset to immediately exit programming mode.
2. Keep the following in mind as you maneuver through Strata CTX programs.
   - Default and/or current settings are displayed on the telephone LCD with an asterisk.
   - Some Strata CTX Programs have more than 20 programmable parameters. To toggle from parameters FB01~FB20 and FB21~FB40 press the Scroll or Page button after entering Program Mode.
   - To view parameter options on your telephone LCD, press the desired FB button and press the Scroll or Page button.
   - Each parameter shows a number to the left (e.g., **2:DISABLE**). Program the desired parameter by pressing the number button (in this example 2) that corresponds to your desired parameter.
   - To enter data, use the number keys.
   - To submit your program entry press Hold. To confirm a submitted entry, press Hold again.
   - To exit a program press # # Hold.
   - To enter the # character in your data string press the Vol▲ and the # button simultaneously. An & sign appears in your LCD. Press the # button, then enter the remaining data.
   - If you get an error code, press Hold (twice) to continue programming. See ìSystem Error Codesî on page 2-1 for error code details.

Programming Parameters

Programs can have between one and 40 programmable parameters, each represented by the FBnn buttons. The LEDs light up for each FBnn button that features a programmable parameter. Each parameter is programmed by entering values into the LCD from the telephone button pad.

1. At the SELECT PARAM prompt, press the appropriate FBnn button.
2. Enter the appropriate value from the telephone button pad using the Parameter Fields tables supplied with each program.
3. Press Hold to submit.
4. Press another FBnn button to program more parameters

   … or press Hold again to program.

Programming Sub-parameters

Some commands enable programming of Sub-parameters to further refine Strata CTX settings. Internet or Network IP addresses are entered using sub-parameter data. IP addresses are displayed as four three-digit values, or Octets, separated by ìperiodsî (e.g., **192.168.255.253**). Your programming telephoneís LCD is only capable of displaying the IP information three digits, or one Octet, at a time.

For example, selecting FB01 in Program 916 displays the first Octet, **192**, on the LCD. To view or change the next Octet (in this example **168**) in the IP Address, press the Spkr button. Pressing Spkr again, displays the following Octet (in this example **255**).

The following is an example from Program 200, FB04. FB04 is broken down into three sub-parameters as follows COS DAY1, COS DAY2 and COS NIGHT.

1. At the **SELECT PARAM** prompt, press FB04.
2. At the **COS DAY1=** prompt, enter a value from 1~32.
3. Press Spkr.
4. At the **COS DAY2=** prompt, enter a value from 1~32.
5. Press Spkr.
6. At the **COS NIGHT=** prompt, enter a value from 1~32.
7. Press Hold to submit.
8. Press another FBnn button to program more parameters

   … or press Hold again to program a new DN.

Note To change one of the sub-parameters, you must proceed through all three sub-parameters before pressing Hold. For example, to change the value of COS DAY1, you must change the COS DAY1 value, then press Spkr twice, and finally, press Hold.

Button Programming Examples

The following examples show you how to use the Strata CTX button programming interface. Toshiba highly recommends the use of Strata CTX WinAdmin to meet the demands of your telephone system programming.

Suppose a customer needed to assign a DKT Station to a PDN. Based on the Identify Program Sequences in Chapter 1 of the Programming Manual Volume 1, you can immediately identify the Program numbers and sequence required to complete this basic task. Login to the Button Programming Mode using the directions on Page -7 and follow the steps below.

Program 100

Reference ìProgram 100î on page 11. For this example, an eight station BDKU PCB is assigned to Slot 01/ Cabinet 01 (xxyy).

1. Enter programming mode. See ìStep 1: Enter Program Mode on page 1-7."
2. At the **PROG=** prompt enter 100 and press Hold.
3. At the **EQUIP=** prompt enter 0101 (xxyy) and press Hold.

   "Program 100" on page 11 tells us that a three digit PCB code (nnn) is required. From the table, "PCB Codes" on page 1-12, we can derive that the PCB code for a BDKU is "017." Furthermore, the "Program 100" table shows us the button sequence required for programming a BDKU in the fourth row of the table.
4. Press FB01. Enter 017 and press Hold.

   "Program 100" on page 11 also informs us that an "n" value is required to complete the PCB assignment. These "n" values are listed in the column titled "Value(s)." When you look in the fourth row of the "Value(s)" column there are five "n" value choices. For this example, select "2. 8 DKT no OCA."
5. Press FB03. Enter 2 and press Hold twice.
6. Press ##Hold to return to the **PROG=** prompt.

Program 200

Reference ì200 Series Programsî on page 1-28. A DKT assignment (DN = 1000) is made to Circuit 01, Slot 01, and Cabinet 01 for the BDKU card installed in Step 1 above.

1. Enter programming mode. See ìStep 1: Enter Program Mode on page 1-7."
2. At the **PROG=** prompt enter 200 and press Hold.
3. At the **DN=** prompt enter 1000 (n) and press Hold.
4. Press FB01. At the **EQUIP=** prompt enter 010101 (xxyyzz) and press Hold.
5. Press FB02. Press 1 to select a DKT and press Hold.
6. Press FB03. Press 1 to select Extension as the Circuit Type and press Hold.

   For this example, only the above FBs need to be assigned. Press Hold again before proceeding to the next step.
7. Press ##Hold to return to the **PROG=** prompt.

Note Additional assignments can be made to fine tune this DKT assignment. If specific assignments are not made, the system automatically assigns the default value.

Program 204

Reference ìProgram 204î on page 34 and review Summary column field descriptions. This program enables you to setup the DKT parameters.

1. Enter programming mode. See ìStep 1: Enter Program Mode on page 1-7."
2. At the **PROG=** prompt enter 204 and press Hold.
3. At the **DN=** prompt enter 1000 (n) and press Hold.
4. Press FB01. Press 1 to select a Extension and press Hold.
5. Press FB02. Press 3 to select Pattern 3 for this DKT and press Hold.

   For this example, we are using a 20-button DKT. There are three button patterns to choose from for each type of digital telephone.

   Only the above FBs need to be assigned. Press Hold again before proceeding to the next step.
6. Press ##Hold to return to the **PROG=** prompt.

Note Additional assignments can be made to fine tune DKT parameters. See Summary column for field descriptions and default values. If specific assignments are not made, the system automatically assigns the default value.

Program 205

Reference ìProgram 205î on page 39 and ìFeature/Button Code Parameter Assignmentsî on page 1-41. This program assigns features and parameters to the FB buttons on your DKT telephone. In this example, the FB10 button on your DKT will be programmed to act as a GCO button.

1. Enter programming mode. See ìStep 1: Enter Program Mode on page 1-7."
2. At the **PROG=** prompt enter 205 and press Hold.
3. At the **DN=** prompt enter 1000 (n) and press Hold.
4. Press FB10. Enter 130 to assign a GCO and press Spkr.

   To select the n1, n2, n3, n4 and n5 values required in "Program 205" on page 39, see "GCO" in the table titled "Feature/Button Code Parameter Assignments" on page 1-41.
5. Enter 1 to assign a GCO number and press Spkr.
6. Enter 1 to assign a GCO index and press Spkr.
7. Enter 2 to enable immediate ringing for this GCO and press Spkr.
8. Enter 1 to assign a soft ring tone to this GCO and press Spkr.
9. Enter 900 to assign an Owner DN to this GCO number and press Hold twice.
10. Press ##Hold to return to the **PROG=** prompt.

Note Press ##Hold again to exit Button Programming Mode.

Program 208

Reference ìProgram 208î on page 46. This program assigns timing parameters to Primary DNs.

1. Enter programming mode. See ìStep 1: Enter Program Mode on page 1-7."
2. At the **PROG=** prompt enter 208 and press Hold.
3. At the **DN=** prompt enter 1000 (n) and press Hold.
4. Press FB01. Press 10 to set the number of ABR attempts and press Hold.
5. Press FB02. Press 60 to set ABR to attempt redials in 60 second increments and press Hold.
6. Press FB03. Press 20 to set the ABR Recall Timer and press Hold.

7. Press FB04. Press 60 to set the Hold Recall Timer and press Hold.
8. Press FB05. Press 15 to set the First Interdigit Timer and press Hold.
9. Press FB06. Press 5 to set the Second Interdigit Timer and press Hold.
10. Press FB07. Press 32 to set the Ring Transfer No Answer Timer and press Hold twice.
11. Press ##Hold to return to the **PROG=** prompt.

Now that you are more familiar with the Strata CTX button programming interface, begin programming your Strata CTX system starting with Step 1 below.

Button Programming Procedure

Step 1: Enter Program Mode

Enter the button sequence displayed below to enter the CTX670 programming interface from a DKT station.

1. Log in by pressing: Hold ✱#✱#1✱2✱3✱.
2. At the **PASSWORD=** prompt, enter your password. Default is 0000.
3. Press Hold.

Step 2: Enter Program Number

1. At the **PROG=** prompt enter the three digit program code (e.g., 200) and press Hold.
2. Programmable parameters are identified by the FB LEDs that are illuminated on the DKT. Go to ìChoose a Button Sequenceî on page 1-7 Press on the related FBnn button to program a parameter.

   … or if there are no illuminated FB LEDs, continue to Step 3.

Step 3: Enter FB00 Parameters

FB00 parameters designate a specific station, trunk, or circuit to be programmed. The FB00 prompt (e.g., **EQUIP=**, **DN=**, **INDEX=**, etc.) appears automatically in the LCD screen.

1. At the FB00 prompt, enter the desired value using the telephone number pad.
2. Press Hold.

Step 4: Choose a Button Sequence

➤ Select the button sequences based on the programs required for programming the Strata CTX from the Telephone. For 100~900 series programs, refer to pages 11~97.

Program Listings

This table is a list of programs found in this chapter.

Program Number	Program Name
100	Card Slot Assignment
102	Flexible Access Codes
103	Class of Service
104	System Timers
105	System Parameters
106	Day/Night Mode Day of Week Mapping

Program Number	Program Name
107	PAD Table Assignment
108	PAD Group Assignment
109	Music on Hold
110	Password Assignment
111	Destination Restriction Level
112	Day/Night Mode Calendar
113	Day/Night Mode Daily Schedule
114	PAD Conference Table Assignment
115	Advisory Messages
116	Data Initialize
117	Public Dial Plan Digit
200	Station Data
201	Station Delete
202	ISDN BRI Station
203	Change DN
204	DKT Parameters
205	DKT Feature Keys
206	Phantom DNs
207	One Touch Assignment
208	Station Timer Assignments
209	Hunting Group Assignments
210	Group Call Pickup
213	ADM Feature Keys
214	DSS Console Assignment
215	DSS Feature Keys
216	Emergency Ringdown Assignment
217	ISDN Station Data
218	Station Hunt Group Assignment (Member Assignments)
300	Trunk Assignment
301	Trunk Delete
302	PRI Trunks
303	ISDN Trunk Delete
304	Incoming Line Group Assignment
305	ILG Delete
306	Outgoing Line Group Assignment
307	OLG Delete
308	Trunk Timers
309	Direct Inward Dialing
310	DIT Assignment
311	MOH Source
312	DID Delete
313	Caller ID Assignment
315	T1 Trunk Card
316	Shared D Channel

Program Number	Program Name
317	ISDN BRI Trunk
318	DID Intercept Assignment
319	Intercept Treatment
320	B Channel Position ISDN Primary Trunk
321	Calling Number Identification
322	ISDN Calling Number Table
323	Call by Call Service
324	CBC Time Zones
400	Emergency Call Destination Assignment
404	Attendant Group Assignment
500	System Call Forward Assignment
501	System Speed Dial Assignment
502	Terminal Paging Group Assignment
503	Paging Devices Group Assignment
504	System Call Forward Operation Status
506	Verified Account Codes
507	Door Phone Assignment
508	Door Lock Control Assignment
509	DR Override by System Speed Dial
510	COS Override Assignment
512	SMDR for System Assignment
513	SMDR for ILG Assignment
514	SMDR for OLG Assignment
515	View BIOU Control Relay Assignment
516	Station Speed Dial
520	LCR Local Route Plan
521	LCR Route Plan Digit Analysis Assignment
522	LCR Exception Number Route Plans
523	LCR Route Plan Schedule Assignment
524	Route Table to Route Definition Assignment
525	LCR Route Definition Assignment
526	Modified Digits Table Assignment
527	LCR Holiday Table Assignment
528	LCR Public Day of Week Mapping Table
529	LCR Route Plan Time Zone Assignment
530	DR LCR Screening Table Assignment
531	DR Screening Table for OLG
532	DR Table Allow/Deny Definition
533	DR Level Table Assignment
534	DRL Exception Table Assignment
540	Pilot DN Assignment
541	Pilot DN Delete
550	Enhanced 911 Emergency Call Group Number
570	Account Code Digit Length

Program Number	Program Name
571	Exception Numbers for Forced Account Codes
573	Delete Door Phone
576	Door Phone Night Ring Over External Page
577	Caller History
579	System Voice Mail Data
580	Voice Mail Port Data
650	Behind Connection Assignment
651	Private Routing Plan Analysis Table Assignment
653	Private Route Choice Table Assignment
654	Private Route Definition Table Assignment
655	Private Digit Modification Table Assignment
656	Node ID Assignment
657	Network COS Mapping Table Assignment
658/659/660	Network DRL Mapping Tables
801	Network Jack LAN Device Assignment
803	IO Logical Device Assignment
804	RS232C Data Assignment
900	System Initialize
901	Display Version
902	Set Time and Date
903	Event Trace Control
904	ISDN Trace Location
905	All ISDN Trunk Trace
906	Event Trace Side Change
907	System Admin Log
908	Format/Unmount SmartMedia
909	MAC Address (System Serial Number)
910	Data Backup
911	Program Update
912	Make Busy Control
915	Regional Selection
916	IP Configuration

Programming Tables

The programming tables in this chapter appear sequentially, beginning with the 100 series programs and ending with the 900 series programs. Tables immediately following a program table are provided for reference. For example, the PCB Code table shown after the Program 100 table gives important PCB codes needed in Program 100.

100 Series Programs

Table 1-1 Program 100

Button	Sequence	Value(s)	Summary
100	Card Slot Assignment 100, Hold		
100-00	Card Slot Assignment xxyy, Hold	xx = Cabinet: 01~02 (Basic CTX670 and CTX100) 01~07 Expanded CTX670 yy = Slot: 01~8 (CTX100) 01-10 (CTX670)	Equipment Number
100-01	PCB Type FB01, nnn, Hold, Hold	nnn = 3 digit PCB Code (See table below). Valid Codes: 000, 001, 002, 005, 006, 009, 010, 011, 013.	Assign one of the following: ï BIOU1 or BIOU2 Page/MOH/BGM Relay Control. ï RSTU or PSTU w/ 8 standard phones. ï All Analog CO Line OCBs. ï BVPU with 4 VoIP circuits. ï RBSU/RBSS with 4 BRI S/T interface. ï Delete PCB
100-02	PDKU/RDTU/RPTU Options FB01, nnn, Hold, FB02, n, Hold, Hold	nnn = 3 digit PCB Code. Valid Codes: 017, 018 n = 1. None 2. DKT no OCA or 8 Ch 3. DKT w/ OCA or 16 Ch 4. 24 Ch (n/a for PDKU) 5. 30 Ch (n/a for PDKU)	Assign one of the following: ï PDKU with OCA toggle ï RDTU or RPTU, T1 or PRI Channel
100-03	BDKU/BDKA Options FB01, nnn, Hold, FB03, n, Hold, Hold	nnn = 3 digit PCB Code Valid Codes: 003, 007, 014 n = 1. None 2. 8 DKT no OCA 3. 8 DKT w/ OCA 4. 16 DKT no OCA 5. 16 DKT w/ OCA	Assign BDKU or BDKS
100-04	BRI TEI Options FB01, nnn, Hold, FB04, n, Hold, Hold	nnn = 3 digit PCB Code. Valid Codes: 012, 013, 015, 016 n = 1. None 2. 8 DKT no OCA 3. 8 DKT w/ OCA 4. 16 DKT no OCA 5. 16 DKT w/ OCA	Assign RBUU/RBUS or RBSU/RBSS.

Table 1-2 PCB Codes

Code	PCB Type	Assigned Name	Circuit/Type
000	None	No Card or Delete Card	n/a
001	COU	RCOU RGLU2	4 Loop Lines 4 Gnd./Loop Lines
002	STU	RSTU2	8 Stations
003	DKU	PDKU2 RWIU	8 Stations 8 or 32 wireless
004	Not used	n/a	n/a
005	8COU	RCOU+RCOS	8 Loop CO Lines
006	DDU	RDDU	4 DID Lines
007	DTU	RDTU2	8, 16, 24 and 30 channel T1
008	DSU	RDSU	4 Standard Ports 4 Digital Ports
009	CIU	RCIU2	4 or 8 Circuit Caller ID
010	MCU	RMCU	2 or 4 E911 CAMA Lines

Code	PCB Type	Assigned Name	Circuit/Type
011	EMU	REMU BVPU	4 Circuits
012	BSU	RBSU	2 S/T interfaces
013	BSU_BSS	RBSU+RBSS	4 S/T interfaces
014	PTU	RPTU	8, 16 and 24 PRI Lines
015	BUU	RBUU	2 U Interfaces
016	BUU_BUS	RBUU+RBUS	4 U Interfaces
017	NEW_DKU_8	BDKU1	8 Stations
018	NEW_DKU_16	BDKU1+BDKS1	16 Stations
019	IOU1	BIOU	Page/MOH/BGM Relay
020	IOU2	BIOU	Page/MOH/BGM Relay

Table 1-3 Program 102

Button	Sequence	Value(s)	Summary
102	Flexible Access Plan 102, Hold		Assigns feature access codes, individual line access codes and outgoing line group (OLG) access codes to the Flexible Numbering Plan. Does not include PDNs, PhDNs, Pilot numbers, or Hunt Group pilot numbers.
102-00	Access Code n, Hold,	n = Up to 5-digit Flexible Numbering Plan	Enter the digits to be dialed (0~9,#,*) to access a Feature or an Outgoing Line Group (OLG). To delete, select `No Data` in `01 Feature Name`. Conflict with an assigned DN will produce an error.
102-01	FB01, nnn, Hold	nnn = 3 digit Feature Code (551 should be selected for a Flexible Numbering OLG)	Select the Feature to which the access code is being assigned. **Note** To assign an access code to an Outgoing Line Group (OLG), select ìLine Group access code - one access code for each OLG.î To assign the prefix digit(s) for the access code of individual lines, select ìLine access code - leading digit(s) to access individual linesî Example: If #7 is selected as the line access prefix, the users will dial #7xxx to access an individual line (where xxx is the line number).
102-02	FB02, n1, Hold, Hold	n1 = 0~32 (CTX100) 0~50 (CTX670 Basic) 0~128 (CTX670 Expanded)	Enter the Outgoing Line Group number to which the OLG access code is being assigned.

Note These three-digit Feature Index Numbers should not be confused with the Program 205 three-digit Button Codes.

Table 1-4 Flexible Numbering Plan Default Settings

Flexible Numbering Feature	Feature Index	Default Access Code	Programmed Value
No Data			
ABR - Activate	**150**	#441	
ABR - Cancel	**151**	#442	
Call Park Orbits - Activate	**170**	#33	
Call Park Orbits - Park Answer (Retrieve Parked Call)	**173**	#32	
System Orbit Number	**174**	7000~7019	
DND -Local Activation	**180**	#6091	

Table 1-4 Flexible Numbering Plan Default Settings *(continued)*

Flexible Numbering Feature	Feature Index	Default Access Code	Programmed Value
DND -Local Cancellation	**181**	#6092	
DND -Remote Activation	**182**	#6191	
DND -Remote Cancellation	**183**	#6192	
Door Lock Control -Unlock	**190**	#12	
Door Phones -Call	**191**	#15	
Flash -short	**200**	#450	
Flash -long	**210**	#451	
Group Paging -Invoke All Group Paging	**220**	#30	
Group Paging -Invoke Individual Group Paging	**230**	#31	
Answer for External Group Paging	**232**	#5#36	
Emergency Page -Invoke All Emergency Paging	**240**	#37	
Emergency Page -Invoke Individual Emergency Paging	**250**	#38	
Originate Call by Terminal Speed Dial (Index: 00-99)	**260**	*1	
Originate Call by System Speed Dial (Index: 000-099)	**261**	*2	
Originate Call by System Speed Dial (Index: 100-199)	**262**	*3	
Originate Call by System Speed Dial (Index: 200-299)	**263**	*4	
Originate Call by System Speed Dial (Index: 300-399)	**264**	*5	
Originate Call by System Speed Dial (Index: 400-499)	**265**	*6	
Originate Call by System Speed Dial (Index: 500-599)	**266**	*7	
Originate Call by System Speed Dial (Index: 600-699)	**267**	*8	
Originate Call by System Speed Dial (Index: 700-799)	**268**	*9	
Register Speed Dial	**269**	#66	
Call Forward (CF-A; Any Call) - Activation	**340**	#6011	
Call Forward (CF-B; Any Call) - Activation	**341**	#6021	
Call Forward (CF-NA; Any Call) - Activation	**342**	#6031	
Call Forward (CF-B/NA; Any Call) - Activation	**343**	#6041	
Call Forward (CF-A; External Call) - Activation	**350**	#6013	
Call Forward CF-B; External Call) - Activation	**351**	#6023	
Call Forward (CF-NA; External Call) - Activation	**352**	#6033	
Call Forward (CF-B/NA; External Call) - Activation	**353**	#6043	
Call Forward (CF-A; Any Call) - Remote Activation	**360**	#6012	
Call Forward (CF-B; Any Call) - Remote Activation	**361**	#6022	
Call Forward (CF-NA; Any Call) - Remote Activation	**362**	#6032	
Call Forward (CF-B/NA; Any Call) - Remote Activation	**363**	#6042	
Call Forward (CF-A; External Call) - Remote Activation	**370**	#6014	
Call Forward (CF-B; External Call) - Remote Activation	**371**	#6024	
Call Forward (CF-NA; External Call) - Remote Activation	**372**	#6034	
Call Forward (CF-B/NA; External Call) - Remote Activation	**373**	#6044	
Call Forward (Any Call) - Cancellation	**380**	#6051	
Call Forward (External Call) - Cancellation	**390**	#6053	
Call Forward (Any Call) - Remote Cancellation	**400**	#6052	
Call Forward (External Call) - Remote Cancellation	**410**	#6054	
Change Password for Remote Activation/Cancellation	**420**	#670	
Input Account Code	**530**	#46	
Change DISA Security Code	**540**	#658	
Outgoing Call by Directing Individual Trunk	**550**	#7	

Table 1-4 Flexible Numbering Plan Default Settings *(continued)*

Flexible Numbering Feature	Feature Index	Default Access Code	Programmed Value
Outgoing Call by Directing Outgoing Line Group	**551**	None	
Three Way Conferencing (Override to Tandem Connection)	**560**	#494	
Enter User Programming Mode	**570**	#9876	
LCR -Outgoing Call	**580**	9	
Set Voice Mail Message Waiting (activate MW without ringing for VM)	**591**	#63	
Release Received Message Waiting	**592**	#409	
Release Sent Message Waiting (Cancel MW without ringing for VM))	**593**	#64	
MW Answer access code (Retrieve Received Message Waiting)	**594**	#408	
Cancel ACB	**600**	#431	
Start BGM	**610**	#490	
Stop BGM	**611**	#491	
Start BGM for External Paging Device	**612**	#492	
Stop BGM for External Paging Device	**613**	#493	
Built-in modem	**630**	#19	
Night Ring Answer	**640**	#5#39	
Travelling Class Override Code Input Number	**650**	#471	
Change Travelling Class Override Code	**651**	#69	
Activate System Call Forward	**670**	#620	
Cancel System Call Forward	**671**	#621	
Call Pickup for Incoming Call -Group Pickup	**680**	#5#34	
Call Pickup for Incoming Call -Directed Terminal	**681**	#5#5	
Call Pickup for Incoming Call -Directed Group	**682**	#5#32	
Call Pickup for Incoming Call -Directed DN	**683**	#5#22	
Call Pickup for Incoming Call -Any External Call	**684**	#5#9	
Call Pickup for On-Hold Call -Directed CO Retrieve	**685**	#5#73	
Call Pickup for On-Hold Call -Local Retrieve	**686**	#5#71	
Call Pickup for On-Hold Call -Remote Retrieve	**687**	#5#72	
Call Pickup for On-Hold Call -Directed DN Retrieve	**688**	#5#74	
Transfer to Voice Mail	**690**	#407	
Repeat Last Number Dialed	**700**	*0	
Volume Control for BEEP	**710**	#6101	
Change LCD Display Language	**720**	#495	
Advisory Message - Activation	**730**	#411	
Advisory Message - Cancellation	**731**	#412	
Emergency Call	**740**	#911	
Attendant Console Group Access Code	**750**	0	
Private Network Access Code	**760**	8	
Node ID (Coordinated Directory Number Prefix)	**770**	None	
Substitution of Dial *	**780**	441	
Substitution of Dial #	**781**	440	
Originate Call with Sub Address -Outgoing Call/Internal Call	**782**	##	
Application starting access code	**800**	#18	
Voice Mail Call Monitor Off	**870**	#963	
System Date Adjust Code (Release 1.02, MA227 or higher)	**910**	**#651**	
System Time Adjust Code (Release 1.02, MA227 or higher)	**911**	**#652**	

Table 1-5 Programs 103~107

Button	Sequence	Value(s)	Summary
103	Class Of Service 103, Hold		Class of Service assignments are a registration of feature capabilities the user is entitled to use. Each assignment is defined as Enabled or Disabled for privileges/permissions granted. Privileges enable users to perform a feature while permissions allow others to use some feature when calling your phone.
103-00	COS Number n, Hold,	n = 1~32 (COS Number)	Class of Service assignments are made for userís of telephones, attendant consoles, and incoming calls based upon the line the call arrives or in some cases on a call-by-call basis when using DISA or Tie Line with QSIG interfaces. For telephone users, the class of service assignments are made for each of the Day/Night Modes to allow different services during different parts of the day.
103-01	Auto Busy Redial FB01, n1, Hold Hold	n1 = 1. Enable (default) 2. Disable	The privilege to invoke Automatic Busy Redial after dialing a busy outside destination.
103-02	Call Forward Override FB02, n1, Hold Hold	n1 = 1. Enable 2. Disable (default)	If enabled, stations with this COS will not forward when calling stations that have System or Station Call Forward activated. This includes when dialing from the dial pad or DSS button located on the telephone or DSS console.
103-03	Call Transfer w/ Camp-on FB03, n1, Hold Hold	n1 = 1. Enable (default) 2. Disable	Allows a call transferred by this station to camp on to a busy destination.
103-04	Change DISA Codes FB04, n1, Hold Hold	n1 = 1. Enable 2. Disable (default)	The privilege to change the DISA Security Code.
103-05	DND Override - Calling Party FB05, n1, Hold Hold	n1 = 1. Enable 2. Disable (default)	Allows a caller to override the Do Not Disturb status of a called party.
103-06	DND Override - Called Party FB06, n1, Hold Hold	n1 = 1. Enable (default) 2. Disable	Allows calling parties with DND Override privileges to override this station's DND status.
103-07	Do Not Disturb FB07, n1, Hold Hold	n1 = 1. Enable (default) 2. Disable	The privilege to place this phone in Do Not Disturb.
103-08	Remote Set/Reset DND FB08, n1, Hold Hold	n1 = 1. Enable 2. Disable (default)	The privilege of setting/resetting Do Not Disturb on other phones.
103-09	Executive Override FB09, n1, Hold Hold	n1 = 1. Enable 2. Disable (default)	The privilege to invoke an Executive Override on a call.
103-10	Executive Override Allowed FB10, n1, Hold Hold	n1 = 1. Enable (default) 2. Disable	Permission for others to use Executive Override when calling this station.
103-11	Offhook Camp-on FB11, n1, Hold Hold	n1 = 1. Enable (default) 2. Disable	The privilege to use Off-hook Camp-on when encountering a busy destination.
103-12	Group Pickup FB12, n1, Hold Hold	n1 = 1. Enable (default) 2. Disable	The privilege to pick up a call ringing on a station in one's own group.
103-13	Directed Station Pickup FB13, n1, Hold Hold	n1 = 1. Enable (default) 2. Disable	The privilege to pick a specified ringing station.
103-14	Directed Group Call Pickup FB14, n1, Hold Hold	n1 = 1. Enable (default) 2. Disable	The privilege to pick up a ringing station in a specified group.
103-15	Directed DN Call Pickup FB15, n1, Hold Hold	n1 = 1. Enable (default) 2. Disable	The privilege to pick a specified DN.

Table 1-5 Programs 103~107 *(continued)*

Button	Sequence	Value(s)	Summary
103-16	Ext Call Pickup FB16, n1, Hold Hold	n1 = 1. Enable (default) 2. Disable	The privilege to pick up any incoming trunk call.
103-17	Directed CO Call Pickup FB17, n1, Hold Hold	n1 = 1. Enable (default) 2. Disable	The privilege to pick up a specified incoming trunk call.
103-18	Remote Retrieve Call Pickup FB18, n1, Hold Hold	n1 = 1. Enable (default) 2. Disable	The privilege to retrieve any call placed on Hold on a designated terminal (PDN).
103-19	DN Retrieve Call Pickup FB19, n1, Hold Hold	n1 = 1. Enable (default) 2. Disable	The privilege to retrieve a held call on another DN.
103-20	Handsfree Override FB20, n1, Hold Hold	n1 = 1. Enable (default) 2. Disable	Permission for others to change this phone from Ringing to Hands Free Answerback.
103-21	Privacy Override FB21, n1, Hold Hold	n1 = 1. Enable 2. Disable (default)	The privilege to override a private call.
103-23	Invoke Emergency Page FB23, n1, Hold Hold	n1 = 1. Enable (default) 2. Disable	The privilege to use the Emergency Page feature.
103-24	Join Feature FB24, n1, Hold Hold	n1 = 1. Enable (default) 2. Disable	The privilege to use the Join feature (Attendant Feature).
103-25	Through Dialing FB25, n1, Hold Hold	n1 = 1. Enable (default) 2. Disable	The privilege to perform Through Dialing (Attendant Feature).
103-26	Tandem CO Connection FB26, n1, Hold Hold	n1 = 1. Enable 2. Disable (default)	The privilege to set up a Trunk-to-Trunk connection.
103-27	Day/Night Control FB27, n1, Hold Hold	n1 = 1. Enable 2. Disable (default)	The privilege to change Day/Night Mode.
103-28	Ext BGM Control FB28, n1, Hold Hold	n1 = 1. Enable 2. Disable (default)	The privilege to turn on/off background music over external speakers.
103-29	LCR Feature FB29, n1, Hold Hold	n1 = 1. Enable (default) 2. Disable	The privilege to use Least Cost Routing.
103-30	Individual Trunk Access FB30, n1, Hold Hold	n1 = 1. Enable (default) 2. Disable	The privilege to dial individual trunk access codes to access specific lines.
103-31	Trunk Access Allowed FB31, n1, Hold Hold	n1 = 1. Enable (default) 2. Disable	The privilege to access trunk groups by trunk access codes.
103-32	Forced Account Codes FB32, n1, Hold Hold	n1 = 1. Enable 2. Disable	The privilege to use Forced Account Codes for placing external calls.
103-33	Verified Account Codes FB33, n1, Hold Hold	n1 = 1. Enable 2. Disable	The privilege to have Account Codes verified before an external call is placed.
103-34	Allow Short Hook Flash FB34, n1, Hold Hold	n1 = 1. Enable (default) 2. Disable	The privilege to use a Short Flash signal over outside lines.
103-35	Allow Long Hook Flash FB35, n1, Hold Hold	n1 = 1. Enable 2. Disable (default)	The privilege to use a Long Flash signal over outside lines.

Table 1-5 Programs 103~107 *(continued)*

Button	Sequence	Value(s)	Summary
103-36	Allow Hook Flash FB36, n1, Hold Hold	n1 = 1. Enable (default) 2. Disable	The privilege to receive hook flash over CO Lines and to allow telephones to hook flash.
103-37	Automatic Line Hold FB37, n1, Hold Hold	n1 = 1. Enable 2. Disable (default)	The privilege to have an active call automatically held when accessing another line.
103-38	Can Originate OCA FB38, n1, Hold Hold	n1 = 1. Enable 2. Disable (default)	Permission for others to call this station using Off-hook Call Announce.
104	System Timers 104, Hold		System timers set a variety of times to control calls and features for the system.
104-01	ACB Callback Timer FB01, n, Hold Hold	n = 5~180 sec. (default = 30)	The Automatic Callback timer sets the time (5 ~ 180 seconds) that the callback will be attempted before being cancelled.
104-02	ACB Cancel Recall Timer FB02, n, Hold Hold	n = 5~180 sec. (default = 30)	The Automatic Callback overall timer sets the time (5 ~ 180 minutes) that a callback can be registered. Once the timer expires, the callback will be cancelled.
104-03	Park Recall Timer FB03, n, Hold Hold	n = 10~600 sec. (default = 120)	The Park timer sets the length of time (10 ~ 600 seconds) a call can remain in Park prior to a recall to the station that initiated the Park.
104-04	Camp-on Timer FB04, n, Hold Hold	n = 5~15 sec. (default = 10)	The Camp-on timer sets the time (5 ~ 60 seconds) needed to remain off-hook prior to Camp-on being automatically activated.
104-05	SMDR Valid Call Timer FB05, n, Hold Hold	n = 0~180 sec. (default = 1)	The SMDR Answer timer sets a default time (0 ~ 180 seconds) for when an outgoing call will be considered to be answered for SMDR reporting when a true answer signal is not returned from the public network. Setting the time short will include calls that may not be completed, setting the time too long may exclude short calls that are answered and terminated in a short time.
104-06	Tandem Connection #1 FB06, n, Hold Hold	n = 0~3600 sec. (default = 300)	For Trunk-to-trunk connections which neither CO Line has release supervision, a timer (0 ~ 3600 seconds) is needed to release the call if no user monitoring has taken place. Also used for CO line to RSTU port connections in which the CO line has no supervision and the device connected to the RSTU port does not hang up automatically (see Prg200, PB34).
104-07	Tandem Connection #2 FB07, n, Hold Hold	n = 0~180 sec. (default = 30)	The Trunk-to trunk User Input Timer provides a time (0 ~ 180 seconds) to allow an external user to dial a digit to extend the disconnect time when the connection is unsupervised. This feature is used primarily with DISA service.
104-08	Call Forward No Ans Time FB08, n, Hold Hold	n = 1~180 sec. (default = 20)	The System Call Forward No Answer timer (1 ~ 180 seconds) specifies the time period that a phone will ring prior to invoking the Call Forward operation.
104-09	Dial Input Timer FB09, n, Hold Hold	n = 0~60 sec. (default = 20)	Time system will wait for the beginning of DTMF input.
104-10	Delay 1 Ringing Timer FB10, n, Hold Hold	n = 1~60 sec. (default = 12)	The Delayed Ringing 1 timer specifies the time (1 ~ 60 seconds) to wait before applying ringing to the designated phones.
104-11	Delay 2 Ringing Timer FB11, n, Hold Hold	n = 1~60 sec. (default =240)	The Delayed Ringing 2 timer specifies the time (1 ~ 60 seconds) to wait before applying ringing to the designated phones.
104-12	Door Unlock Timer FB12, n, Hold Hold	n = 1~30 sec. (default = 6)	The Door Unlock Timer specifies the length of time (1 ~ 30 seconds) the electrical signal is sent to the door for releasing the lock.
104-13	9+11 Judgement Timer FB13, n, Hold Hold	n = 1~30 sec. (default = 5)	The 9+11 Inter-digital timer provides a timing value (1 ~ 30 seconds) for the system to wait for additional digits to be dialed looking for the 911 or 9+911 dialed codes for treatment using the E911 procedures rather than normal dialing treatment.

Table 1-5 Programs 103~107 *(continued)*

Button	Sequence	Value(s)	Summary
104-14	Emergency Call Timer FB14, n, Hold Hold	n = 10~180 sec. (default = 30)	The Emergency Call timer sets a time (10 ~ 180 seconds) for advancing the call to the next station in a list of destinations for the call.
104-15	ABR Busy Detection Time FB15, n, Hold Hold	n = 1~30 sec. (default = 5)	The Destination Busy Detection timer sets the time (1 ~ 30 seconds) to wait while looking for a busy condition on an external call. If detected, it will trigger the initiation of the Automatic Busy Redial cycle.
104-16	Lost Call Timer FB16, n, Hold Hold	n = 1~600 sec. (default = 180)	The Lost Call timer sets the time (1 ~ 600 seconds) that a failed transfer recall will ring on the originating station prior to attempting to recall a secondary location.
104-17	Lost Call Final Timer FB17, n, Hold Hold	n = 1~600 sec. (default = 180)	The Lost Call Final timer sets the time (1 ~ 600 seconds) that a failed transfer recall will ring on the secondary location before being automatically disconnected.
104-18	DTMF Tone Sending Time FB18, n, Hold Hold	n = 1. 80 ms (default) 2. 160 ms	The DTMF tone sending duration (1-80 msecs, 2-160 msecs) for dialing on CO Lines.
104-19	Auto Disconnect FB19, n, Hold Hold	n = 0~60 sec. (default = 0)	Time after which an unsupervised trunk may be automatically released.
104-23	System Timer Network DSS Refresh Timer	n = 20~180 sec. (default = 30)	Select Network DSS Refresh Timer (20 -180 seconds). The time interval when all Network DSS settings are refreshed system wide. **Note** DSS button LEDs change state immediately when the status of the DSS button changes - regardless of this timer value.
104-24	Outgoing Number Display Timer	n = 1~120 sec. (default = 10)	This timer sets how long dialed numbers will display on telephone LCDs for outgoing line calls.
105	System Parameters 105, Hold		This command assigns the system parameters.
105-01	Executive Override FB01, n, Hold, Hold	n = 1. Enable (default) 2. Disable	Break in warning tone of Executive Override Enable or Disable.
105-02	Station MOH FB02, n, Hold, Hold	n = 1. Quiet Tone 2. External 1 (default) 3. External 2 4. External 3 5. External 4 6. External 5 7. External 6 8. External 7 9. External 8 10. External 9 11. External 10 12. External 11 13. External 12 14. External 13 15. External 14 16. External 15	Music On Hold selection of Private Line and Station.
105-03	Ringing Transfer FB03, n, Hold, Hold	n = 1. RBT (default) 2. MOH	Tones for the transferred party after the ringing transfer takes place.
105-04	Transfer Privacy FB04, n, Hold, Hold	n = 1. Enable (default) 2. Disable	Transfer Privacy enabled: CO line buttons that have multiple appearances will only flash and ring on the transferred-to telephone; the same CO line button on other telephones will be red-busy. Transfer Privacy Disabled: CO line buttons that have multiple appearances will flash and ring on all telephones that have the CO line button appearance.
105-05	Privacy Override FB05, n, Hold, Hold	n = 1. Enable 2. Disable (default)	Privacy Override Attendant Monitor warning Enable or Disable.

Table 1-5 Programs 103~107 *(continued)*

Button	Sequence	Value(s)	Summary
105-06	Credit Card Code FB06, n, Hold, Hold	n = Up to 32 digits	Enter the number dialed to initiate a Credit Card Call. This is normally ì0î in the USA.
105-07	Credit Card Digits FB07, n, Hold, Hold	n = 1~66 digits	Minimum Dial Digits required for Credit Card Calling. This should be the quantity of digits in a credit card number. If this quantity of digits is not dialed when making credit card calls, the caller will be disconnected. This is to insure that the call is charged to a credit card. DRL tables in Program 111 and OLGs in Program 306 must be enabled with credit card calling for this feature to be active. Users must be assigned to a DRL table enable with credit card calling and call out on a credit card calling enabled OLG for this featured to be applied to the call.
105-08	E911 Service FB08, n, Hold, Hold	n = 1. Enable (default) 2. Disable	Offer of E911 Service.
105-09	DR Override by SSD FB09, n, Hold, Hold	n = 1. Enable (default) 2. Disable	Destination Restriction Override by System Speed Dial.
105-10	Auto Station Release FB10, n, Hold, Hold	n = 1. Enable (default) 2. Disable	Automatic Station Release.
105-11	ISDN SPID FB11, n, Hold, Hold	n = 1. Operable 2. Not Operable (default)	Operation when Auto SPID or User Entry Of SPID fails.
105-12	Night Mode Relay FB12, n, Hold, Hold	n = 0~8	Assign BIOU Relay (1~8) as the Night Relay - this relay activates when the system is in the Night Mode. BIUO1 provides relays 1 to 4. BIUO2 provides relays 5 to 8 **Note** The CTX100 ACTU built-in relay is programmed as relay 5. For this relay operation, a virtual BIOU2 is installed, as default, in a virtual equipment position - Cabinet 2 slot 5. (Cab. 02 slot 05, PCB code 20, in program 100). To install an actual BIOU2 and disable the ACTU built-in relay, use the programming telephone. To remove the virtual BIOU2 and then install the actual BIOU2 in Cab. 01/slot 01~08 in the normal manner.
105-13	BGM External Paging FB13, n, Hold, Hold	n = 0~4 (CTX100) 0~8 (CTX670 Basic) 0~16 (CTX100 Expanded)	Set the External Page Group Number that includes the external paging zones to which BGM will be sent. See PRG503.
105-14	Lost Call Destination FB14, n, Hold, Hold	n = Up to 5 digits	Set Lost Call Destination.
105-15	COS Override Code FB15, n, Hold, Hold	n = 1~8 (default = 1)	Class of Service Override Code Digits.
105-16	Multi-Conference FB16, n, Hold, Hold	n = 1. Enable 2. Disable (default)	Conference connection of many member for Analog Internal Call and Outgoing Call.
105-17	Caller Number Display FB17, n, Hold, Hold	n = 1. Enable (default) 2. Disable	Caller number display preferentially.

Table 1-5 Programs 103~107 *(continued)*

Button	Sequence	Value(s)	Summary
105-18	Night Bell Relay FB18, n, Hold, Hold	n = 0~8 (default = 0)	Assign BIOU Relay (1~8) as the Night Relay - this relay activates when the system is in the Night Mode. BIOU1 provides relays 1 to 4. BIOU2 provides relays 5 to 8 **Note** The CTX100 ACTU built-in relay is programmed as relay 5. For this relay operation, a virtual BIOU2 is installed, as default, in a virtual equipment position - Cabinet 2 slot 5. (Cab. 02 slot 05, PCB code 20, in program 100). To install an actual BIOU2 and disable the ACTU built-in relay, use the programming telephone. To remove the virtual BIOU2 and then install the actual BIOU2 in Cab. 01/slot 01~08 in the normal manner.
105-19	Display Preference FB19, n, Hold, Hold	n = 1. DNIS (default) 2. Caller ID	Whether to display DNIS or Caller ID.
105-20	Transit Counter FB20, n, Hold, Hold	n = 0~128 (default = 1)	The Networking Transit Counter limits the number of nodes through which a QSIG call can pass before being terminated as a lost call.
105-21	Primary Clock FB21, xxyyzz, Hold, Hold	xx = Cabinet 1 (CTX100), 01~02 (CTX670 Basic), 01~07 (CTX670 Exp.) yy = Slot 01~8 (CTX100), 01~10 (CTX670) zz = Circuit (01~30)	Enter data as xxyyzz. zz=channel 01 if clock source is RPTU or RDTU zz=channel 01, 02, 03 , or 04 if clock source is RBUU/RBUS or RBSU Example: If the Primary Clock Source should be a assigned to an RPTU in cabinet 5, slot 2, enter 050201. Cabinet numbers: • CTX100: Select 01 for Base and Expansion cabinet. • CTX670: Select 01 for Base and 02~07 respectively for each Expansion cabinet. Slot numbers: • CTX100: Select 01~04 for Base slots and 05~08 for Expansion slots. • CTX670: Select 01~08 for Base slots and 01~10 for Expansion slots.
105-22	Secondary Clock FB22, xxyyzz, Hold, Hold	xx = Cabinet 1 (CTX100), 01~02 (CTX670 Basic), 01~07 (CTX670 Exp.) yy = Slot 01~8 (CTX100), 01~10 (CTX670) zz = Circuit (01~30)	Enter data as xxyyzz: zz=channel 01 if clock source is RPTU or RDTU zz=circuit 01, 02, 03 , or 04 if clock source is RBUU/RBUS or RBSU Example: If the Secondary Clock Source should be a assigned to an RBUU in cabinet 5, slot 2, circuit 2; enter 050202. Cabinet numbers: • CTX100: Select 01 for Base and Expansion cabinet. • CTX670: Select 01 for Base and 02~07 respectively for each Expansion cabinet. Slot numbers: • CTX100: Select 01~04 for Base slots and 05~08 for Expansion slots. • CTX670: Select 01~08 for Base slots and 01~10 for Expansion slots.
105-23	Call History Prefix 1 FB23, n, Hold, Hold	n = 1. add (default) 2. not add	Whether prefix 1 is added or not in callback of Call History Feature.
105-24	Emergency Digits Sent FB24, n, Hold, Hold	n = Up to 5 digits (default = 911)	Default = ì911î for North America. Enter alternative emergency dialing strings up to 5 digits as required by local conditions.
105-25	DP Make Ratio FB25, n, Hold, Hold	n = 1. DPMakeRatio33 2. DPMakeRatio40 (default)	Dial pulse Make/Break ratio can be set to 33% or 40%. The default value is 40%.

Table 1-5 Programs 103~107 *(continued)*

Button	Sequence	Value(s)	Summary
105-26	Call Button Jumping FB26, n, Hold, Hold	n = 1. Enable (default) 2. Disable	If enabled, line calls move from a telephone DN button to a line button after they are answered. After the call is answered, the DN button is cleared to receive another call. With this operation the DN acts as an answer button for the phone. This only applies if the line answered has a CO, GCO, or Pooled line button appearance on the phone. If disabled, line calls remain on the DN after they are answered.
106	Day/Night Mode Day of Week Mapping 106, Hold		The Day of the Week schedule defines each day as the type of day the schedule shall follow. These types of days are called Work Day, Non-work Day, and Holiday. Each day of the week can be classified.
106-00	Tenant Number	n = Enter 1~8	Select the Tenant number for which the daily schedules will be configured.
106-01	Monday	n = 1. Work Day (default) 2. Non-Work 3. Holiday	Enter the type of day to follow for daily schedule. 1- Work Day; 2- Non-Work Day; or 3- Holiday.
106-02	Tuesday	n = 1. Work Day (default) 2. Non-Work 3. Holiday	Enter the type of day to follow for daily schedule. 1- Work Day; 2- Non-Work Day; or 3- Holiday.
106-03	Wednesday	n = 1. Work Day (default) 2. Non-Work 3. Holiday	Enter the type of day to follow for daily schedule. 1- Work Day; 2- Non-Work Day; or 3- Holiday.
106-04	Thursday	n = 1. Work Day (default) 2. Non-Work 3. Holiday	Enter the type of day to follow for daily schedule. 1- Work Day; 2- Non-Work Day; or 3- Holiday.
106-05	Friday	n = 1. Work Day (default) 2. Non-Work 3. Holiday	Enter the type of day to follow for daily schedule. 1- Work Day; 2- Non-Work Day; or 3- Holiday.
106-06	Saturday	n = 1. Work Day 2. Non-Work (default) 3. Holiday	Enter the type of day to follow for daily schedule. 1- Work Day; 2- Non-Work Day; or 3- Holiday.
106-07	Sunday	n = 1. Work Day 2. Non-Work (default) 3. Holiday	Enter the type of day to follow for daily schedule. 1- Work Day; 2- Non-Work Day; or 3- Holiday.
107	PAD Table Assignment 107, Hold		Assigns additional Sender and Receiver PAD values to pad groups in the pad table.
107-01	Sender PAD Device Number FB01, n, Hold See ìPAD Tableî on page 1-22.	n = Up to 3 digits 1-10 (PAD device number) or PAD Group Number: 101~106 (CTX100) 101~110 (CTX670 Basic) 101~132 (CTX670 Exp.)	Enter Sender PAD Device or Group Number from PAD Table (following this section).
107-02	Receiver PAD Device Number FB02, n1, Hold	n1 = Up to 3 digits 1-10 (PAD device number) or PAD Group Number: 101~106 (CTX100) 101~110 (CTX670 Basic) 101~132 (CTX670 Exp.)	Enter Receiver PAD Device Number or Group Number from PAD Table (following this section).
107-03	PAD Loss FB03, n2, Hold, Hold	n2 = 1. 6 dB Net Gain 2. 3 dB Net Gain 3. 0 dB 4. 3 dB Net Loss 5. 6 dB Net Loss 6. 9 dB Net Loss 7. 12 dB Net Loss 8. 15 dB Net Loss	Enter PAD Value (See PAD Table below). The value shown shows the net effect. **Note** To PAD is to insert loss; therefore, negative loss equals net gain.

Table 1-6 PAD Table

	PAD Device Number	1	2	3	4	5	6	7	8	9	10	101	102	··
PAD Device Number	Receiver (Listener) Sender (Speaker)	Analog Telephone	DKT	Analog Trunk	T1 Trunk	ISDN Station	ISDN Trunk	CONF Bridge	Music Source	Ext. Paging	IPT	PAD Group 1	PAD Group 2	··
1	Analog Telephone	**0**	**0**	**0**	**6**	**6**	**6**	**X**[1]	**-**	**0**	**0**	**0**	**0**	
2	DKT	**0**	**0**	**0**	**6**	**6**	**6**	**0**	**-**	**0**	**0**	**0**	**0**	
3	Analog Trunk	**0**	**0**	**6**	**6**	**6**	**6**	**X**[1]	**-**	**6**	**0**	**0**	**0**	
4	T1 Trunk	**6**	**6**	**6**	**0**	**0**	**0**	**0**	**-**	**6**	**3**	**0**	**0**	
5	ISDN Station	**6**	**6**	**6**	**0**	**0**	**0**	**0**	**-**	**6**	**3**	**0**	**0**	
6	ISDN Trunk	**6**	**6**	**6**	**0**	**0**	**0**	**0**	**-**	**6**	**3**	**0**	**0**	
7	Conference Bridge	**(0)**	**(0)**	**(0)**	**(0)**	**(0)**	**(0)**	**(0)**	**(0)**	**(0)**	**0**	**0**	**0**	
8	Music Source	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	
9	Ext. Paging	**0**	**0**	**6**	**6**	**6**	**6**	**0**	**0**	**0**	**0**	**0**	**0**	
10	IPT	**-6**	**0**	**-6**	**0**	**0**	**0**	**-6**	**-**	**-6**	**0**	**0**	**0**	
101	PAD Group 1[2]	**0**	**0**	**-3**	**-3**	**-3**	**-3**	**-3**	**-3**	**-3**	**0**	**0**	**0**	
102	PAD Group 2[3]	**3**	**3**	**3**	**3**	**3**	**3**	**3**	**3**	**3**	**3**	**3**	**0**	
:	:													
131	PAD Group 31													
132	PAD Group 32													

Notes

1. "X" data set for PAD Conference table Assignment
2. For IP QSIG only. The default values for PAD Group 1 is 0dB. dB is the value for attenuation level.
3. For PRI QSIG only.

Table 1-7 Program 108

Button	Sequence	Value(s)	Summary
108	PAD Group Assignment 108, Hold		This program permits the addition of up to 32 devices to the Pad Table to deal with exceptions to the default table.
108-00	PAD Group Device Type. xyyyyy, Hold	xyyyyy Up to 6 digits x = Device Type yyyyy = Device number	Enter the Device Type(x) and Device number(y). Refer to the table below.
108-01	PAD Group Number. FB01, n1, Hold, Hold	n1 = 0~6 (CTX100) 0~10 (CTX670 Basic) 0~32 (CTX670 Expanded)	Enter the PAD Group Number.

Table 1-8 PAD Group Device Type Examples

Device Name	Device Type	Device Number	Example
DKT, SLT, ISDN, Station	**1**	0~99999 (PDN)	if DKT device = 200, value = 1200.
ISDN Trunk	**2**	1~128 (Channel Group Number per Prog. 302)	if Channel Group # = 10, value = 210.
Analog Trunk, T1 Trunk	**3**	1~264 (Trunk Number)	if Trunk # = 120, value = 3120.
Conference Bridge	**4**	none (Conference Bridge is only one)	value = 4.
Music Source	**5**	1~15 (Music Port)	if Music port = 8, value = 58.
External Paging Device	**6**	1~8 (Zone Relay Number)	if External Paging Device = 3, value = 63.

Table 1-9 Programs 109~114

Button	Sequence	Value(s)	Summary
109	Music on Hold. 109, Hold		This command assigns external Music on Hold (MOH) and Background Music (BGM) sources.
109-01	MOH/BGM #1 (BECU) FB01, n, Hold	n = 1. Enable (default) 2. Disable	Enable this assignment if MOH source #1 is connected to the system processor MOH RCA jack.
109-02	MOH/BGM #2 (BIOU1-J1) FB02, n, Hold	n = 1. Enable 2. Disable (default)	Enable this assignment if MOH source #2 is connected to BIOU-1, MOH RCA jack (J1).
109-03	MOH/BGM #3 (BIOU1-J2) FB03, n, Hold	n = 1. Enable 2. Disable (default)	Enable this assignment if MOH source #3 is connected to BIOU-1, MOH RCA jack (J2).
109-04	MOH/BGM #4 (BIOU1-J3) FB04, n, Hold	n = 1. Enable 2. Disable (default)	Enable this assignment if MOH source #4 is connected to BIOU-1, MOH RCA jack (J3).
109-05	MOH/BGM #5 (BIOU2-J1) FB05, n, Hold	n = 1. Enable 2. Disable (default)	Enable this assignment if MOH source #5 is connected to BIOU-2, MOH RCA jack (J1).
109-06	MOH/BGM #6 (BIOU2-J2) FB06, n, Hold	n = 1. Enable 2. Disable (default)	Enable this assignment if MOH source #6 is connected to BIOU-2, MOH RCA jack (J2).
109-07	MOH/BGM #7 (BIOU2-J3) FB07, n, Hold	n = 1. Enable 2. Disable (default)	Enable this assignment if MOH source #7 is connected to BIOU-2, MOH RCA jack (J3).
109 08~15	MOH/BGM #8 (RSTU) FB08/-FB15, xxyyzz, Spkr, n, Hold	xx = Cabinet 1 (CTX100), 01~02 (CTX670 Basic), 01~07 (CTX670 Exp.) yy = Slot 01~8 (CTX100), 01~10 (CTX670 zz = Circuit 01~08	Enter the RSTU equipment number to which MOH/BGM source #8 or #9~#15 are connected. Enter data as xxyyzz: Example: If the MOH/BGM source should be a assigned to an RSTU in cabinet 5, slot 2, circuit 3; enter 050203. **Note** A PDN can not be assigned to an RSTU equipment number if it is to be a MOH circuit. If a PDN is assigned to the circuit that will connect to a MOH/BGM source, you must first delete it using PRG201 Cabinet numbers: • CTX100: Select 01 for Base and Expansion cabinet. • CTX670: Select 01 for Base and 02~07 respectively for each Expansion cabinet. Slot numbers: • CTX100: Select 01~04 for Base slots and 05~08 for Expansion slots. • CTX670: Select 01~08 for Base slots and 01~10 for Expansion slots.
110	Password Assignment. 110, Hold		The system has two passwords levels. Logging into the system with the Level 1 password allows you to administer all system programs while the level 2 password provides restricted program administration.
110-00	Password Level n, Hold	n = 1. Unrestricted Admin 2. Restricted Admin	Enter the digit 1 or 2 for the password level. Enter 1 to set the unrestricted administration password. Enter 2 to set the restricted administration password. **Note** Level 2 users can administer all programs, but are restricted from initializing the CTX and from updating the CTX software.
110-01	Password FB01, n1, Hold, Hold	n1 = Up to 16 digits	Enter a 1~16 digit password for the selected level. Each level can have only one password.

Table 1-9 Programs 109~114 *(continued)*

Button	Sequence	Value(s)	Summary
111	Destination Restriction Level 111, Hold		This command establishes a Destination Restriction Level (DRL).
111-00	DRL Number n, Hold	n = 1~16	Enter the DRL number (1~16)
111-01	Credit Card Calling FB01, n1, Hold, Hold	n1 = 1. Enable 2. Disable (default)	Enable or Disable Credit Card Calling for this DRL
112	Day/Night Mode Calendar 112, Hold		The Calendar will override the current Day of the Week setting with the type of day specified in the calendar. Thus a Working Day or a Non-working Day can be changed to a Holiday based upon the calendar.
112-00	Tenant	n = 1~8	Enter the Tenant to schedule for Day/Night mode calendar.
112-01	Calendar Day FB01, YYYYMMDD, Hold	YYYY = Year MM = Month DD = Day	Enter the calendar day to be treated individually as an exception to the Day of Week treatment. Maximum table size is 128. Format: YYYYMMDD
112-02	Working Day Type FB02, n, Hold, Hold	n = 1. Delete (default) 2. Work Day 3. Non-Working Day 4. Holiday	Enter the Day Type to override the Weekly Mapping.
113	Day/Night Mode Daily Schedule 113, Hold		The Day/Night Mode daily schedule defines the times for the start of the Work Day, Non-work Day, and Holiday for each of the modes (Day, Day2. Night).
113-00	Tenant Number	n = Enter 1~8	Select the Tenant number for which the daily schedules will be configured.
113-01	Day1 Mode/Work Day FB01, hhmm, Hold	hh = hour (00~23) mm = minute (00~59) 9999 to delete	Enter the start time for Day1 Mode for the Work type of day. Enter ì9999î to omit this mode.
113-02	Day2 Mode/Work Day FB02, hhmm, Hold	hh = hour (00~23) mm = minute (00~59) 9999 to delete	Enter the start time for Day2 Mode for the Work type of day. Enter ì9999î to omit this mode.
113-03	Night Mode/Work Day FB03, hhmm, Hold	hh = hour (00~23) mm = minute (00~59) 9999 to delete	Enter the start time for Night Mode for the Work type of day. Enter ì9999î to omit this mode.
113-04	Day1 Mode/Non-Work Day FB04, hhmm, Hold	hh = hour (00~23) mm = minute (00~59) 9999 to delete	Enter the start time for Day1 Mode for the Non-work type of day. Enter ì9999î to omit this mode.
113-05	Day2 Mode/Non-Work Day FB05, hhmm, Hold	hh = hour (00~23) mm = minute (00~59) 9999 to delete	Enter the start time for Day2 Mode for the Non-work type of day. Enter ì9999î to omit this mode.
113-06	Night Mode/Non-Work Day FB06, hhmm, Hold	hh = hour (00~23) mm = minute (00~59) 9999 to delete	Enter the start time for Night Mode for the Non-work type of day. Enter ì9999î to omit this mode.
113-07	Day1 Mode/Holiday FB07, hhmm, Hold	hh = hour (00~23) mm = minute (00~59) 9999 to delete	Enter the start time for Day1 Mode for the Holiday type of day. Enter ì9999î to omit this mode.
113-08	Day2 Mode/Holiday FB08, hhmm, Hold	hh = hour (00~23) mm = minute (00~59) 9999 to delete	Enter the start time for Day2 Mode for the Holiday type of day. Enter ì9999î to omit this mode.

Table 1-9 Programs 109~114 *(continued)*

Button	Sequence	Value(s)	Summary
113-09	Night Mode/Holiday FB09, hhmm, Hold, Hold	hh = hour (00~23) mm = minute (00~59) 9999 to delete	Enter the start time for Night Mode for the Holiday type of day. Enter ì9999î to omit this mode.
114	PAD Conference Table Assignment 114, Hold		Assigns PAD values for combinations of analog trunks and telephones in conference.
114-01	No. of Conference Trunks FB01, n, Hold	n = 0~6 0~8 1. 6 dB Net Gain 2. 3 dB Net Gain 3. 0 dB 4. 3 dB Net Loss 5. 6 dB Net Loss 6. 9 dB Net Loss 7. 12 dB Net Loss 8. 15 dB Net Loss	Enter the number of analog trunks in the conference.
114-02	No. of Conference Telephones FB02, n1, Hold	n1 = 0~8	Enter the number of analog telephones in the conference.
114-03	PAD Conference Value FB03, n2, Hold, Hold	n2 = 1. 6 dB Net Gain 2. 3 dB Net Gain 3. 0 dB 4. 3 dB Net Loss 5. 6 dB Net Loss 6. 9 dB Net Loss 7. 12 dB Net Loss 8. 15 dB Net Loss	Enter the desired PAD value for the combination of analog trunks and telephones specified in 01 and 02 above. See ìPAD Conference Tableî on page 1-25.

Table 1-10 PAD Conference Table

Number of Trunks	Number of Analog Telephones								
	0	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**
0	0	0	0	0	0	3	3	6	6
1	0	0	0	0	3	3	3	6	
2	3	3	3	3	3	6	6		
3	6	6	6	6	6	9			
4	9	9	9	9	9				
5	9	9	9	9					
6	9	9	9						

Table 1-11 Program 116

Button	Sequence	Value(s)	Summary
116	Data Initialize 116, Hold		This program is used to initialize the tables of selected programs in the Strata CTX system.
116-01	FB01, n, Hold, Hold See ìData Initialize Programsî on page 1-26.	n = 3 digit Program Number (100~999)	Enter Program Number to be initialized.

Table 1-12 Data Initialize Programs

Program Number	Program Name	Page #
500	System Call Forward Assignment	74
520	LCR Local Route Plan Assignment	82
521	LCR Route Plan Digit Analysis Assignment	83
522	LCR Exception Number Route Plans	83
523	LCR Route Plan Schedule Assignment	83
524	Route Table to Route Definition Assignment	84
525	LCR Route Definition Assignment	84
526	Modified Digits Table Assignment	84
527	LCR Holiday Table	84
529	LCR Route Plan Time Zone Assignment	85
530	DR LCR Screening Table Assignment	85
531	DR Screening Table for OLG	86
533	DR Level Table Assignment	86
534	DRL Exception Table Assignment	87
651	Private Routing Plan Analysis	91
653	Private Route Choice Table Assignment	91
654	Private Route Definition Table Assignment	92
655	Private Network Digit Modification Table Assignment	92

Table 1-13 Program 117

Button	Sequence	Value(s)	Summary
117	Public Dial Plan Digit 117, Hold		This command is used to prevent users from circumventing Destination Restriction by sending tones directly to the PSTN before DR analysis is complete. It defines the number of digits expected in PSTN numbers beginning with identified sequences. For example, a number starting with the toll prefix ì1î would be expected to be 11 digits long. Calls will be cut through to the public network only after the expected number of digits have been received.
117-00	Prefix Number n, Hold,	n = Up to 7 digits (Wild Cards n and x)	The initial, identifying external digits. 1 to 7 digits may include wild cards ìxî and ìnî where x = 0~9 and n = 2~9.
117-01	Digits to Follow FB01, n1, Hold, Hold	n1 = 1~64	The total number of digits in a number beginning with the Prefix Number above.

Table 1-13 Program 117

Button	Sequence	Value(s)	Summary
120	Tenant Data Assignment 120, Hold		This program enables you to select an Attendant or Night Bell to ring when dialing 0 in Day 1, Day 2 or Day 3 mode for up to eight different Tenants. You can also assign the general purpose relay to the Night Bell in this program.
120-00	Tenant Number n, Hold,	n = 1~8. No Data (Default)	Select the Tenant number for which the daily schedules will be configured.
120-01, 120-02, 120-03	Dial 0 Call Day 1, 2, or 3 Dst Type FB01, n=1 or 3, Hold or (see next row)	n = 1. No Data (default) 2. Dialing Digits (see în=2î below) 3. Night Bell	Select to call an Attendant or select to ring the Night Bell when dialing the Tenant Attendant Access Code in the Day1, Day 2, or Day 3 mode for this Tenant. The Tenant Attendant Access Code must be assigned in Prg 102. If it should be ì0,î the Attendant Console Group Access Code, which is ì0,î must be deleted.
	FB01, n=2 (Dialing Digits), Spkr. DEST=enter values. Hold	DEST = Up to 32 digits for each Day Mode selected (default = noData)	Enter the PDN of the Attendant (BATI) to ring when dialing Tenant Attendant Access Code in Day, Day2, or Day 3 mode.
120-04	Night Mode Relay FB04, n, Hold	n = BIOU 1 = relay 1~4 BIOU 2 = relays 5~8 ACTU = relay 5	Enter the General Purpose relay number assigned to the Night Bell. BIOU relays 1~8. This operation activates the relay continuously when the system is in the night mode.
120-05	Night Bell Relay FB05, n, Hold	n = BIOU 1 = relay 1~4 BIOU 2 = relays 5~8 ACTU = relay 5	Enter the General Purpose relay number assigned to the Night Bell. BIOU relays 1~8. This operation activates the relay when a CO line or DID rings when the system is in night mode. The CO or DID line must be assigned to ring the night bell.

200 Series Programs

Table 1-14 Programs 200~202

Button	Sequence	Value(s)	Summary
200	Station Data 200, Hold		This command assigns stations to the system.
200-00	Primary DN n, Hold	n = Up to 5 digits	Primary DN (enter an existing PDN or enter a PDN you wish to create for a new station).
200-01	PDN Equipment Number FB01, xxyyzz, Hold	xx = Cabinet 1 (CTX100), 01~02 (CTX670 Basic), 01~07 (CTX670 Exp.) yy = Slot (01~10) zz = Circuit (01~16)	Enter the PDN equipment number (xxyyzz). This is the cabinet, slot, and circuit number of the ADKU, BDKU/BDKS, PDKU, or RSTU interface PCB to which the the PDN is, or should be assigned. Example: If the PDN should be a assigned to a BDKU in cabinet 5, slot 2, circuit 3; enter 050203. Cabinet numbers: • CTX100: Select 01 for Base and Expansion cabinet. • CTX670: Select 01 for Base and 02~07 respectively for each Expansion cabinet. Slot numbers: • CTX100: Select 01~04 for Base slots and 05~08 for Expansion slots. • CTX670: Select 01~08 for Base slots and 01~10 for Expansion slots.
200-02	Station Type FB02, n, Hold	n = 1. DKT 2. SLT	Station Type. **Note** Select SLT to set up voice mail.
200-03	Circuit Type FB03, n, Hold	n = 1. Extension 2. Voice Mail 3. Announce (Not used in USA or Canada)	Extension: Should be assigned to PDNs the are associated with Digital or Standard telephones Voice Mail: Should be assigned to PDNs associated with Voice Mail RSTU circuits.
200-04	Station COS • Day1 COS • Day2 COS • Night COS FB04, n, Spkr, n, Spkr, n, Hold	n = 1~32	COS for Day1. COS for Day2. COS for Night.
200-05	Station DRL • Day1 DRL • Day2 DRL • Night DRL FB05, n, Spkr, n, Spkr, n, Hold	n = 1~16	DRL for Day1 (Used for Credit card calling). DRL for Day2. DRL for Night.
200-06	Station FRL • Day1 FRL • Day2 FRL • Night FRL FB06, n, Spkr, n, Spkr, n, Hold	n = 1~16	FRL for Day1. FRL for Day2. FRL for Night.
200-07	LCR Group FB07, n, Hold	n = 1~16	Station LCR Group Number.

Table 1-14 Programs 200~202 *(continued)*

Button	Sequence	Value(s)	Summary
200-08	Station QPL • Day1 QPL • Day2 QPL • Night QPL FB08, n, Spkr, n, Spkr, n, Hold	n = 1~16	QPL for Day1. QPL for Day2. QPL for Night.
200-09	Station Name FB09, n, Hold	n = Up to 8 digits	Station Name to be displayed on LCD (Cannot be entered from DKT in R1).
200-10	Call Waiting Tone for Offhook Camp-on FB10, n, Hold	n = 1. None 2. Singular 3. Continuous	Call Waiting Tone of Offhook Camp-on.
200-11	Dialing Progress Tone FB11, n, Hold	n = 1. Dial Tone 2. Entry Tone 3. Quiet Tone	Type of Tone to hear after dialing LCR access code.
200-12	System Call Forward Group Number FB12, n, Hold	n = 0~4 (CTX100) 0~10 (CTX670 Basic) 0~32 (CTX670 Exp.)	System Call Forward group number.
200-13	Call Pickup FB13, n, Hold	n = 1. Permitted 2. Group Only 3. Not Permitted	The station privilege to activate Call Pickup.
200-14	Bearer Capability ñ 3.1KHz FB14, n, Hold	n = 1. Audio 2. Speech	ISDN Bearer Capability the PSTN is expecting from non ISDN stations. 3.1kHzAudio or Speech.
200-15	Display DN FB15, n, Hold	n = Up to 5 digits	The number displayed on the calling telephone that rings this PDN number. The number displayed on the called telephone when calling from any DN on this telephone. This number will be overridden by PRG209, 04 (if assigned) and if the PDN is in a hunt group.
200-16	Caller Emergency Service Identification (CESID) FB16, n, Hold	n = Up to 16 digits	E911 Calling Party Information identifier for this station (CESID). **Note** CESID should be 10 digits or less for Centralized Automatic Message Accounting (CAMA) E911 trunk. PRI E911 allows pot 16 digits.
200-17	Emergency Call Group FB17, n, Hold	n = 1~8	The Emergency call group that this station belongs to.
200-18	Remote CF/DND Password FB18, n, Hold	n = Up to 4 digits	Password to remotely set or cancel DND or station Call Forward from another CTX station, or for Call Forward only, from a external DISA line. **Note** DND can not be set/canceled remotely from a DISA line.
200-19	VMID Code SMDI FB19, n, Hold	n = Up to 16 digits	Enter the voice mail box number that should answer calls when this PDN calls voice mail, or when this PDN is called and then forwards to voice mail (this number is prefixed by codes in Program 579, 11~16). Valid entries: digits 0~9, * and #, maximum 10 characters. This VMID code is sent to the voice mail device in SMDI packets or DTMF tones on direct calls to voice mail from the PDN and on calls to the PDN that forward to voice mail (see Program 580 for SMDI or DTMF choice).
200-22	Message Waiting to VM Port FB22, n, Hold	n = Up to 5 digits	Message Waiting Center DN.

Table 1-14 Programs 200~202 *(continued)*

Button	Sequence	Value(s)	Summary
200-23	Travelling COS Change FB23, n, Hold	n = 1. Enable 2. Disable	Privilege to change the Travelling Class of Service Override Code.
200-24	TGAC Override FB24, n, Hold	n = 1. Enable 2. Disable	Trunk Group Access Code Over Ride (for Attendant console) (Not available in R1).
200-25	Service Tones FB25, n, Hold	n = 1. Enable 2. Disable	Disable Services Tone for Data Privacy. Service tone, such a Call Waiting Tone, should be disabled for modems, FAXes, and similar devices.
200-26	Call Waiting and ROB Tone FB26, n, Hold	n = 1. Enable 2. Disable	Enable/Disable the station to receive Call Waiting (Campon) and Ring Over Busy Tone. CW tone is always two beeps. ROB tone can be two beeps or continuous as set in PRG 204, 27.
200-27	Name Display FB27, n, Hold	n = 1. Enable 2. Disable	Privilege to put the user name in the list display of Large LCD (Directory Assistance)
200-28	Door Ovr DND FB28, n, Hold	n = 1. Override 2. Do not Override	Enable DND override by door phone.
200-29	Emergency Ringdown FB29, n, Hold	n = 1. Enable 2. Disable	Enable Emergency ringdown.
200-30	Change System Speed Dial FB30, n, Hold	n = 1. Enable 2. Disable	Privilege to use System Speed Dial.
200-31	Network COS FB31, n, Hold	n = 1~32	Network COS number.
200-32	Auto OCA FB32, n, Hold	n = 1. Enable 2. Disable	OCA occurs automatically when making a call to a busy station that allows OCA calls to be received.
200-33	Originate OCA FB33, n, Hold	n = 1. Enable 2. Disable	The privilege to make OCA calls to other stations.
200-34	RSTU Supervision FB34, n, Hold	n = 1. Received 2. Not Received	Devices connected to RSTU circuits that do not automatically hang up, and connect to CO lines that do not provide disconnect supervision, should be set with ìNot Received.î This enables the auto disconnect Tandem timer in PRG 104, PB06 for these types of Connections.
200-35	Station Speed Dial Bins FB35, n, Hold	n = 0~100	The number of station speed dial bins allocated to this station (maximum=100 per station).
200-39	CO Park & Hold FB39, n, Hold	n = 1. Enable 2. Disable	Enabled: When this station parks a line call, CO or GCO buttons of the parked line that appear on other stations will be on hold. This will allow the other stations to press the CO or GCO button to pickup the parked call. Disabled: When this station parks a line call, CO or GCO buttons of the parked line that appear on other stations will appear busy. This will prevent the other stations to press the CO or GCO button to pickup the parked call.
200-40	Stutter Dial Tone FB40, n, Hold	n = 1. Enable 2. Disable	This feature is available only with CTX Release 1.3 or higher software and with CTX WinAdmin Release 1.3 or higher software. Enable: This station will receive stuttered dial tone when it has a station-to-station or Voice Mail message waiting, or if DND is set. This feature is available with Strata CTX R1.3 software. Disable: This station will receive normal dial tone when it has a station-to-station or Voice Mail message waiting, or if DND is set.

Table 1-14 Programs 200~202 *(continued)*

Button	Sequence	Value(s)	Summary
200-41	Activate Message Waiting FB41, n, Hold	n = 1. Enable 2. Disable	This feature is available only with CTX Release 1.3 or higher software and with CTX WinAdmin Release 1.3 or higher software. Enable: This station is allowed to activate station-to-station message waiting on other stations by dialing the other station number plus 7, 8 or 9; or, by pressing the Msg key. This feature is available with Strata CTX R1.3 software. Disable: This station cannot activate station-to-station message waiting on other stations by dialing the station number plus 7, 8 or 9. **Notes** • When disabled, digital telephones are still allowed to activate station-to-station message waiting by pressing the Msg button. • This parameter does not apply to Voice Mail ports to use the special Message Waiting access codes.
200-42	Tenant Number FB42, n, Hold, Hold	n = 1. 1~8. (Default = 1)	Enter the Tenant number to which this PDN should be assigned.
201	Station Delete 201, Hold		This command deletes stations.
201-01	Primary DN FB01, n, Hold, Hold		PDN or PhDN to be deleted.
202	ISDN BRI Station 202, Hold		This command assigns ISDN BRI Stations.
202-00	Primary DN n, Hold.	n = Up to 5 digits	ISDN BRI circuit Prime Directory Number.
202-01	Equipment FB01, xxyyzz, Hold	xx = Cabinet 1 (CTX100), 01~02 (CTX670 Basic), 01~07 (CTX670 Exp.) yy = Slot 01~8 (CTX100), 01~10 (CTX670) zz = Circuit (01~04)	Enter the BRI equipment number assigned to this PDN. This is the cabinet, slot, and circuit number of the RBUU/RBUS or RBSU/RBSS interface PCB to which the the PDN is, or should be, assigned. Enter data as xxyyzz: Example: If the PDN should be a assigned to a BDKU in cabinet 5, slot 2, circuit 3; enter 050203. Cabinet numbers: • CTX100: Select 01 for Base and Expansion cabinet. • CTX670: Select 01 for Base and 02~07 respectively for each Expansion cabinet. Slot numbers: • CTX100: Select 01~04 for Base slots and 05~08 for Expansion slots. • CTX670: Select 01~08 for Base slots and 01~10 for Expansion slots.
202-02	ISDN Channel Group FB02, n, Hold	n = 1~32 (CTX100) 1~48 (CTX670 Basic) 1~128 (CTX670 Exp.)	Channel Group Number.
202-03	ISDN Protocol FB03, n, Hold	n = 1. National ISDN 2. ETSI 3. TTC 4. National ISDN - Nortel	Protocol
202-04	Type Connection FB04, n, Hold	n = 1. Point to Point 2. Point to Multi Point	Connection format

Table 1-14 Programs 200~202 *(continued)*

Button	Sequence	Value(s)	Summary
202-05	BRI Station COS • Day1 COS • Day2 COS • Night COS FB05, n, Spkr, n, Spkr, n, Hold	n = 1~32	COS for Day1 COS for Day2 COS for Night
202-06	BRI Station DRL • Day1 DRL • Day2 DRL • Night DRL FB06, n, Spkr, n, Spkr, n, Hold	n = 1~16	DRL for Day1 DRL for Day2 DRL for Night
202-07	BRI Station FRL • Day1 FRL • Day2 FRL • Night FRL FB07, n, Spkr, n, Spkr, n, Hold	n = 1~16	FRL for Day1 FRL for Day2 FRL for Night
202-08	LCR Group FB08, n, Hold	n = 1~16	LCR Group Number
202-09	BRI Station QPL • Day1 QPL • Day2 QPL • Night QPL FB09, n, Spkr, n, Spkr, n, Hold	n = 1~16	QPL for Day1 QPL for Day2 QPL for Night
202-10	Speech Capability FB10, n, Hold	n = 1. Enable 2. Disable	Enable Bearer Capability Speech. See ìBRI Bearer Capability of ISDNî on page 1-34.
202-11	3.1 KHz Audio FB11, n, Hold	n = 1. Enable 2. Disable	Enable Bearer Capability 3.1kHzAudio. See ìBRI Bearer Capability of ISDNî on page 1-34.
202-12	7 KHz Audio FB12, n, Hold	n = 1. Enable 2. Disable	Enable Bearer Capability 7kHzAudio. See ìBRI Bearer Capability of ISDNî on page 1-34.
202-13	64Kbps Unrestricted FB13, n, Hold	n = 1. Enable 2. Disable	Enable Bearer Capability unrestricted digital Information 64kbps. See ìBRI Bearer Capability of ISDNî on page 1-34.
202-14	56Kbps Unrestricted FB14, n, Hold	n = 1. Enable 2. Disable	Bearer Capability unrestricted digital Information 56kbps.
202-15	2 x 64Kbps Unrestricted FB15, n, Hold	n = 1. Enable 2. Disable	Bearer Capability unrestricted digital Information 2x64kbps.
202-16	B Channel Selection FB16, n, Hold	n = 1. Exclusive 2. Preferred 3. Any Channel	B Channel selected originating method.
202-17	Idle B Channel Selection FB17, n, Hold	n = 1. Forward Cyclic 2. Backward Cyclic 3. Forward Terminal 4. Backward Terminal	Idle B Channel selection method.
202-18	Interdigit Timer 1 FB18, n, Hold	n = 1~180	Interdigit1 Timer
202-19	Interdigit Timer 2 FB19, n, Hold	n = 1~180	Interdigit2 Timer

Table 1-14 Programs 200~202 *(continued)*

Button	Sequence	Value(s)	Summary
202-20	CESID FB20, n, Hold	n = Up to 16 digits	Enter the Caller Emergency Services Identification (CESID) for E911 calls.
202-21	Number Voice Calls Allowed FB21, n, Hold	n = 1. One 2. Two	Voice Call Allowed Number for Interface.
202-22	Service Tone Permission FB22, n, Hold	n = 1. Enable 2. Disable	Service Tone Permission.
202-23	TGAC Override FB23, n, Hold	n = 1. Enable 2. Disable	TGAC Override.
202-24	Change System Speed FB24, n, Hold	n = 1. Enable 2. Disable	Permission to register System Speed Dial.
202-25	Network COS FB25, n, Hold	n = 1~32	Network COS index.
202-26	Additional DN2 FB26, n, Hold	n = Up to 5 digits	Additional DN2.
202-27	Additional DN3 FB27, n, Hold	n = Up to 5 digits	Additional DN3.
202-28	Additional DN4 FB28, n, Hold	n = Up to 5 digits	Additional DN4.
202-29	Additional DN5 FB29, n, Hold	n = Up to 5 digits	Additional DN5.
202-30	Additional DN6 FB30, n, Hold	n = Up to 5 digits	Additional DN6.
202-31	Additional DN7 FB31, n, Hold	n = Up to 5 digits	Additional DN7.
202-32	Additional DN8 FB32, n, Hold	n = Up to 5 digits	Additional DN8.
202-33	Auto OCA FB33, n, Hold	n = 1. Enable 2. Disable	OCA occurs automatically when making a call to a busy station that allows calls to be received.
202-34	Originate OCA FB34, n, Hold	n = 1. Enable 2. Disable	The privilege to make OCA calls to other stations.
202-35	Station SpDial Bins FB35, n, Hold	n = 1~100 (in intervals of 10)	The number of station speed dial bins allocated to this station (maximum=100).
202-38	MW Stutter Dial Tone FB38, n, Hold, Hold	n = 1. Enable 2. Disable	Enable: This station will receive stuttered dial tone when it has a station-to-station or Voice Mail message waiting. Disable: This station will receive normal dial tone when it has a a station-to-station or Voice Mail message waiting.
202-39	Tenant Number FB39, n, Hold, Hold	n = 1~8 (default = 1)	Enter the Tenant number to which this PDN should be assigned.

Table 1-15 BRI Bearer Capability of ISDN

Bearer Services			Bellcore Nat'l ISDN	ETSI	TTC
Circuit Mode	Speech		X	X	X
	3.1kHz Audio		X	X	X
	7kHz Audio			X	X
	Unrestricted Digital Information	64 kbps	X	X	X
		Rate adaptation from 56 kbps	X		
		2x64		X	X

Table 1-16 Programs 203~204

Button	Sequence	Value(s)	Summary
203	Change DN 203, Hold		This command changes DN.
203-00	Primary DN n, Hold	n = Up to 5 digits	Enter DN to change.
203-01	Enter new DN FB01, n1, Hold, Hold	n1 = Up to 5 digits	Enter new DN.
204	DKT Parameters 204, Hold		This command assigns DKT digital telephone data.
204-00	Primary DN n, Hold	n = Up to 5 digits	Primary DN
204-01	Station Type FB01, n, Hold	n = 1. Extension 2. Attendant	For CTX R1 this must be set to ìExtension.î The ìAttendantî option is not available for this release.
204-02	Key Strip Pattern FB02, n, Hold	n = 1. Pattern1 2. Pattern2 3. Pattern3 4. None	Default key strip patterns for digital telephones. The selected Pattern is applied to the ìKey Strip Typeî parameter (DKT3014 uses only Pattern 1 or None). • None - applies PDN to button 01 and blank to all other buttons. • Pattern 1 - applies PDN to button 01, plus line buttons and DND. • Pattern 2 - applies PDN to button 01, plus line buttons, One-Touch buttons and DND. • Pattern 3 - applies PDN to button 01 and blank to all other buttons.
204-03	Key Strip Type FB03, n, Hold	n = 1~24	Apply 1, 3, 10, 14, or 20 button keystrip type to digital telephones. • 1 and 3 button keystrips apply to DKT2001 and DKT3001. • 10 button keystrips apply to DKT2010 and DKT3010. • 14 button keystrips apply to the Large LCD DKT3014 • 20 button keystrips apply to DKT2020 and DKT3020.
204-04	Add on Modules FB04, n, Hold	n = 1. None 2. One Unit 3. Two Units	The Number of Add-on Modules assigned to this station.
204-05	Tone 1st /Voice 1st FB05, n, Hold	n = 1. Tone 2. Voice	Set PDN to have Tone First or Voice First signaling when called. For each iES32 PDN, set to ìTone Firstî, if set to Voice First iES32 will not answer.
204-06	OCA Type FB06, n, Hold	n = 1. Handset 2. Speaker	Select the OCA type. This field must be programmed with Auto OCA Originate below.

Table 1-16 Programs 203~204 *(continued)*

Button	Sequence	Value(s)	Summary
204-09	Handsfree MIC Setting FB09, n, Hold	n = 1. Enable 2. Disable	If you call a station configured for Voice First signalling, you can use this parameter to enable the called parties microphone from your DKT.
204-10	Handsfree Tone FB10, n, Hold	n = 1. Enable 2. Disable	If you call a DKT configured for Voice First signalling, you can use this parameter to send a splash tone to the called party.
204-11	Ext. Ring Repeat FB11, n, Hold	n = 1. Enable 2. Disable	Enable repetitive ringing for incoming CO/PBX/Centrex signals. Disabling this parameter defaults to standard CO ringing pattern (1 second on/3 seconds Off).
204-13	Ringing Line Preference FB13, n, Hold	n = 1. Idle 2. Ringing 3. Prime 4. No Preference 5. Prime and Idle 6. Prime and Ringing 7. Ringing and Idle	Select Off Hook Preference. When a digital telephone user goes off hook, presses the Spkr Button or dials a digit while the telephone is idle (Hot Dial Pad), the telephone will select an idle PDN or Line button, or answer an incoming call, according to the preferences set in this command. This command works in conjunction with the ì14 PDN/Line preferenceî and ì15 Call Answer Preferenceî programs. The possible values are described as follows: • Idle ñ The telephone will select an idle DN or Line button depending on the ì14 PDN or Line preferenceî choice. In either case priority is always the lowest numbered button that is idle. The telephone will not answer ringing calls automatically. • Ringing ñ The telephone will answer a ringing call (any PDN, secondary DN, PhDN, or any Line type button) by call type or longest ringing button depending on the ì15 Call Answer Preferenceî choice. The telephone will not automatically select a DN or Line button when going off hook to originate a call. • Primary DN ñ The telephone will automatically try to select the PDN button, if idle or ringing, no matter what the status is of other buttons on the telephone. • No Preference ñ The telephone will not select any button when the user goes off hook or presses the Spkr button. This selection will also disable the telephoneís Hot Dial Pad feature. • Primary DN and Idle ñ The telephone will automatically try to select the PDN button, if idle or ringing. If the PDN is busy the telephone will select an idle Line button (14 PDN or Line preference - Line Preference) or another idle DN button (14 PDN or Line preference - PDN Preference). • Primary DN and Ringing ñ The telephone will automatically try to select the PDN button, if idle or ringing. If the PDN is busy the telephone will select a ringing Line button (14 PDN or Line preference - Line Preference) or a ringing DN button (14 PDN or Line preference - PDN Preference). • Ringing and Idle ñ The telephone will always answer any ringing call according to ì15 Call Answer Preferenceî . If a call is not ringing it will select an idle Line button (14 PDN or Line preference - Line Preference) or idle DN button (14 PDN or Line preference - PDN Preference).
204-14	Off-hook Preference FB14, n, Hold	n = 1. CO Key 2. DN Key	Offhook preference button Type. Off hook ringing selections are also based on ì15 Call Answer Preferenceî choices. • CO Line buttons - Line buttons (any type CO, Pooled or Group CO line button) have priority over DN buttons with ì13 Off Hook Preferenceî choices. The lowest numbered line button on the telephone has priority over other line buttons for idle selection. • Primary DN button - DN buttons (any type PDN, Secondary DN or PhDN button) have priority over Line buttons with ì13 Off Hook Preferenceî choices. The PDN button has first priority for idle selection, the lowest numbered DN button on the telephone has priority over other DN buttons for idle selection if the PDN button is busy.

Table 1-16 Programs 203~204 *(continued)*

Button	Sequence	Value(s)	Summary
204-15	Ringing Preference FB15, n, Hold	n = 1. Longest 2. Call Type	Ringing call answer preference. • Longest Ringing - any call type - Calls are answered in order of the longest ringing line no matter what type of call (FIFO). • Longest Ringing - by call type priority - Call Type priority is applied to the longest ringing button. Call Type Priorities are fixed in software as shown below: 1. Emergency Calls 2. Hands Free Calls (after it is switched to ringing by the caller). 3. ACD calls 4. Recalls (Hold recall, Automatic call back, ABR, etc.) 5. External Calls (DID, DIT DISA line calls etc.) 6. Internal Calls (station, Attendant, Tie line, door phone, etc.)
204-16	Text Message Display FB16, n, Hold	n = 1. Immediate 2. Not Immediate	Select whether to display an LCD text message. • Immediate - displays the message. • Not immediate - does not display the message.
204-17	Call History Memory FB17, n, Hold	n = 0~100	Enter the number of calls to be stored in memory for this station.
204-18	DTMF Back Tone FB18, n, Hold		Not Used, has no effect on system operation
204-19	Continuous DTMF FB19, n, Hold	n = 1. Continuous 2. Not Continuous	Enable / Disable Continuous DTMF. For each iES32 PDN, set to ìnot Continuousî, if set to ìContinuousî, outdial notification to pagers and calls to AMIS nodes will not function properly. Possible values: Enable, Disable
204-20	Display Language FB20, n, Hold	n = 1. English 2. British English 3. French	Select the LCD Display Language.
204-21	Adapter FB21, n, Hold	n = 1. None 2. BPCI 3. BATI	Select the Adapter Type (Desktop OAI or Attendant Console). • None (default), BPCI or BATI • BPCI ñ for USB interface. • BATI ñ for PC Attendant Console Interface.
204-22	Blind Transfer FB22, n, Hold	n = 1. Leave 2. Separate	Set Blind Transfer Action (Attendant Type Only).
204-23	Mail Box Selection FB23, n, Hold	n = 1. Auto 2. Manual	Select the method to enter the destination Mailbox for Call Recording. If set to ìAutoî CTX uses the VM ID of the station initiating the record function. **Notes** • The DN assigned as the MSG center in PROG 200 is used to call the VM port or Hunt group (PROG 200 FK 22). • When set to ìAutoî the VM-ID of the station initiating the record function is sent to Stratagy ES as the destination mailbox. • When set to ìManual Inputî the user may enter any valid Mailbox followed by the ì#î sign. If the user Presses ì#î without additional data the CTX will send the VMID of the originating station.
204-24	MIC Init. Value FB24, n, Hold	n = 1. On 2. Off	Turn on the microphone automatically when making a speaker phone call. The microphone must be enabled.
204-25	Microphone FB25, n, Hold	n = 1. Enable 2. Disable	Enable microphone.
204-26	Speaker Mode Tones FB26, n, Hold	n = 1. Yes 2. No	Enable telephone to receive Call Waiting (Camp-on) and Ring Over Busy Tone while on a speaker phone call.

Table 1-16 Programs 203~204 *(continued)*

Button	Sequence	Value(s)	Summary
204-27	Ring Over Busy Cycles FB27, n, Hold	n = 1. Two Cycles 2. Continuous	Set ROB to ring two times or continuously. **Note** See PRG200, 26 to enable ROB to be sent to individual telephones.
204-28	Attd Overflow Dest. FB28, n, Hold	n = Up to 32 digits	Select overflow destination for attendant.
204-29	Trunk Test and Verify FB29, n, Hold	n = 1. Yes 2. No	Allow Trunk Tests and Verification.
204-30	Auto Line Hold FB30, n, Hold	n = 1. Enable 2. Disable	Enable Automatic Line Hold. This parameter allows a station to ìline hopî from one call to another automatically by placing the first call on hold.
204-31	Call Progress Dependency FB31, n, Hold, Hold	n = 1. Terminal Mode 2. Line Mode (default)	Allows the telephone to be set to ring or not ring when busy on a call. If a telephone has multiple DNs (PDN + PhDNs), set this parameter to the Line Mode. Terminal Mode: Callers will receive busy tone when any DN or CO line button on the telephone is in-use. If Call Forward Busy/No Answer is set on the telephone a call to the telephone will forward immediately when a call is delivered while the user is talking on any DN or CO line button. Line Mode: Calls will ring the telephone when the user is talking on a line or DN button if the telephone has multiple DN or line buttons in a hunt configuration. If Call Forward Busy/No Answer is set, the telephone will Ring No Answer and then forward when a call is delivered to the telephone while the user is talking on a DN or CO line button.

Feature Button Patterns

The following tables show the various feature button patterns available for FB02 above.

Table 1-17 20 Button (when FB03 value is 20)

	PATTERN1	PATTERN2	PATTERN3	PATTERN4
FB01	Primary DN	Primary DN	Primary DN	None
FB02	CO 1	CO 1	No Data	
FB03	CO 2	CO 2		
FB04	CO 3	CO 3		
FB05	CO 4	CO 4		
FB06	CO 5	CO 5		
FB07	CO 6	CO 6		
FB08	CO 7	CO 7		
FB09	CO 8	CO 8		
FB10	CO 9	CO 9		
FB11	CO 10	CO 10		
FB12	CO 11	CO 11		
FB13	CO 12	CO 12		
FB14	CO 13	Single Touch Button		
FB15	CO 14			
FB16	CO 15			
FB17	CO 16			
FB18	CO 17			
FB19	CO 18			
FB20	Do Not Disturb	Do Not Disturb		

Table 1-18 10 Button (when FB03 value is 10)

	PATTERN1	PATTERN2	PATTERN3	PATTERN4
FB01	Primary DN	Primary DN	Primary DN	None
FB02	CO 1	CO 1	No Data	
FB03	CO 2	CO 2		
FB04	CO 3	CO 3		
FB05	CO 4	CO 4		
FB06	CO 5	Single Touch Button		
FB07	CO 6			
FB08	CO 7			
FB09	CO 8			
FB10	Do Not Disturb	Do Not Disturb		

Table 1-19 14 Button (when FB03 value is 14)

	PATTERN1	PATTERN2	PATTERN3	PATTERN4
FB01	Primary DN	Primary DN	Primary DN	None
FB02	CO 1	No Data	No Data	
FB03	CO 2			
FB04	CO 3			
FB05	CO 4			
FB06	CO 5			
FB07	No Data			
FB08	CO 7			
FB09	CO 8			
FB10	CO 9			
FB11	CO 10			
FB12	CO 11			
FB13	Do Not Disturb			
FB14	No Data			

Table 1-20 Program 205

Button	Sequence	Value(s)	Summary
205	DKT Feature Keys. 205, Hold		The Feature Key assignment allows each key on the telephone to be addressed and assigned a code representing the function to be performed. Some feature keys require additional parameters to completely define the key. For example, a Phantom DN needs a directory number, ringing assignment, and the tone pitch when ringing occurs.
205-00	Primary DN n, Hold	n = 0~99999	Enter a Primary DN number to program FBs. **Note** FB04 *Add on Modules* in Program 204 must be set to One or Two.

Table 1-20 Program 205

Button	Sequence	Value(s)	Summary
205-01	Key Number FB01~FB20		Press the desired FB to program. **Note** On the 14-button telephones, the left side buttons are FB01~FB07 and the right side buttons are FB11~FB17.
	Code n, Spkr	n =	Select Desired Feature Code. See ìFlexible Button Assignment Feature Code Tableî on page 1-42. 100 - PDN 110 - PhDN 120 - CO 130 - GCO 140 - Pooled Line Button 540 - Door Lock Cancel 560 - PhDN Message Waiting 610 - DSS Button 900 - Start Application
	Parameter 1 n1, see Note **Note** For Feature Code 560, 610 and 900, make your selection and push Spkr for further options.	n1 = See ìFeature/Button Code Parameter Assignmentsî on page 1-41.	This Parameter is required for all Feature Codes.
	Parameter 2 n2, see Note **Note** For Feature Code 100, make your selection and push Spkr for further options.	n2 = See ìFeature/Button Code Parameter Assignmentsî on page 1-41.	This Parameter is required for all Feature Codes except Feature Codes 560, 610 and 900.
	Parameter 3 n3, see Note **Note** For Feature Code 110 and 140, make your selection and push Spkr for further options.	n3 = See ìFeature/Button Code Parameter Assignmentsî on page 1-41.	This Parameter is required for Feature Codes 110, 120, 130 and 140 only.
	Parameter 4 n4, see Note **Note** For Feature Code 120, make your selection and push Spkr for further options.	n4 = See ìFeature/Button Code Parameter Assignmentsî on page 1-41.	This Parameter is required for Feature Codes 120 and 130 only.
	Parameter 5 n5, see Note **Note** For Feature Code 130, make your selection and push Spkr for further options.	n5 = See ìFeature/Button Code Parameter Assignmentsî on page 1-41.	This Parameter is required for Feature Codes 130 only.

Table 1-21 Feature/Button Code Parameter Assignments

Feature	Button Code	Sub-parameters	Description	Values	LCD Prompt
PDN	100	Parameter 1	Set ring pattern.	1. No Ring 2. Immediate 3. Delay 1 4. Delay 2	
		Parameter 2	Set ring tone.	Enter a value of 1~4.	PITCH=
PhDN	110	Parameter 1	Set PhDN.	Maximum 5 digit number.	DN=
		Parameter 2	Set ring pattern.	1. No Ring 2. Immediate 3. Delay 1 4. Delay 2	
		Parameter 3	Set ring tone.	Enter a value of 1~4.	PITCH=
CO	120	Parameter 1	Set CO number.	Enter a value of 0~264.	LINE NO=
		Parameter 2	Set ring pattern.	1. No Ring 2. Immediate 3. Delay 1 4. Delay 2	
		Parameter 3	Set ring tone.	Enter a value of 1~4.	PITCH=
		Parameter 4	Owner DN.	Max 5 characters	OWNER DN=
GCO	130	Parameter 1	Set GCO number.	Enter a value of 0~128.	GCO NO=
		Parameter 2	GCO Index.	Enter a value of 0~128.	INDEX=
		Parameter 3	Set ring pattern.	1. No Ring 2. Immediate 3. Delay 1 4. Delay 2	
		Parameter 4	Set ring tone.	Enter a value of 1~4.	PITCH=
		Parameter 5	Owner DN.	Max 5 characters	OWNER DN=
Pooled Line Button	140	Parameter 1	Pooled Line number.	Enter a value from 0~128.	POOL NO=
		Parameter 2	Set ring pattern.	1. No Ring 2. Immediate 3. Delay 1 4. Delay 2	
		Parameter 3	Set ring tone.	Enter a value of 1~4.	PITCH
Door Lock Cancel	540	Parameter 1	Door Lock number.	Enter a value from 1~10.	NUMBER=
PhDN Message Waiting	560	Parameter 1	Set PhDN number.	Max 5 characters.	PH DN=
DSS Button	610	Parameter 1	DSS Button PDN number. Up to 7 digits with CTX Release 1.3 or higher software. Up to 5 digits for releases earlier than 1.3.	You cannot set the same DN in DSS Key for one station.	PDN=
Start Application	900	Parameter 1	Enter Application number.	Enter a value between 0~99.	APL NO=

Table 1-22 Flexible Button Assignment Feature Code Table

Feature	Buttons Code
No Data/Delete Code	000
Account Code (Frequently used codes)	660
Attendant Console Group Access Code	n/a
Automatic Attendant (The extension terminal having the simplified attendant console attribute must set at least the ATT-ANSWER button)	
• Answer	700
• Overflow	790
Automatic Busy Redial	150
Automatic Callback Cancel	160
BGM	530
Call Forward	
• All Call	340
• All Call (Remotely)	350
• Busy (External Call Activation)	390
• Busy CF-A (External Call Activation)	380
• No Answer	360
• No Answer (External Call Activation)	400
• Busy No Answer	370
• Busy No Answer (External Call Activation)	420
Call Handling	
• Cancel	290
• Release	270
• Destination Party	310
• Release/Answer	280
• Privacy	320
• Privacy Release	330
• Source Party	300
Call Park	
• System Orbit	170
Call Pickup	
• Incoming - Group Pickup	430
• Incoming - Directed Terminal Pickup	440
• Incoming - Directed Group Pickup	450
• Incoming - Directed DN Pickup	460
• On hold - Local Retrieve	490
• On hold - Remote Retrieve	500
• On hold - Outside line Retrieve	480
• On hold - Directed DN Retrieve	510
• On hold and Incoming - Any External Call	470
• On hold and Incoming -	520
Calling Number Identification (CLID)	580
Dialing	
• Dial Out	620
Do Not Disturb (DND)	180

Table 1-22 Flexible Button Assignment Feature Code Table *(continued)*

Feature	Buttons Code
Door Lock Cancel	540
Flash - Short	200
Flash - Long	210
• Attendant	820
• Supervised	830
Microphone Cut Off (MCO)	840
Message Waiting	
• Phantom (PhDN) Message Waiting	560
Night Transfer	600
Paging	
One Touch Button	570
• Page All Groups	220
• Page Individual Groups	230
• Emergency Page - Individual Group	250
• Emergency Page - All Groups	240
• Answer Feature	590
Position Busy	800
Programming Mode (Enter User Programming Mode)	650
Split (Conference Split)	860
Speed Dial (register Speed Dial)	260
Start Application	900
Trunk Test	810
Voice Mail	
• Auto Voice Mail Playback	640
• Auto Voice Mail Record	630
• Call Monitor	870

Notes

1. T = Telephone type PCB
2. L = CO line type PCB
3. ∗ = Allowed T1/PRI slots
4. The Base cabinet allows Speaker OCA and DIU data with PDKU in all slots; expansion cabinets provide these features in slots S_01~S_06 only.
5. Last available slot: B1C=S108, B2C=206, B3C=310, and B5C=510.

Table 1-23 Programs 206

Button	Sequence	Value(s)	Summary
206	Phantom DN 206, Hold		This command assigns PhantomDN parameters.
206-00	Phantom DN n, Hold	n = Up to 5 digits	Enter Phantom DN.
206-01	Owned PDN FB01, n, Hold	n = Up to 5 digits	Set PhantomDN's Owner Station
206-02	Tone/Voice First FB02, n, Hold	n = 1. Tone First (default) 2. **Voice First**	Select from Tone first, or Voice first signaling.

Table 1-23 Programs 206 *(continued)*

Button	Sequence	Value(s)	Summary
206-03	Handsfree Answerback FB03, n, Hold	n = 1. Enable (default) 2. Disable	Whether to regard an incoming call as a hands free call
206-04	Display DN FB04, n, Hold	n = Up to 5 digits	Enter the number displayed on the calling telephone that rings this Phantom DN number. This number is overridden by the number in Program 209, FB04 (if assigned) and if the Phantom DN is in a hunt group. When calling from this Phantom DN, the number displayed on the called telephone appears in order of priority as follows: This number in Program 209, FB04 (if assigned) and if the PhDN is in a hunt group. Ö or this number in Program 200, FB15 (if assigned). Ö or the calling telephone's PDN.
206-05	System Call Forward FB05, n, Hold	n = 0~4 (CTX100) 0~10 (CTX670 Basic) 0~32 (CTX670 Exp.) (default = 0)	Select the System Call Forward value.
206-06	VM ID Code FB06, n, Hold	n = Up to 16 digits	Enter the voice mail box number that should answer calls when this PhDN calls voice mail; or, when this PhDN is called and then forwards to voice mail (This number is prefixed by codes in Program 579, FB11~FB16). This VMID code is sent to the voice mail device in SMDI packets or DTMF tones on direct calls to voice mail from the PhDN; and on calls to the PhDN that forward to voice mail (see Program 580 for SMDI or DTMF choice). **Note** Do not enter a VMID code in this field if this PhDN is associated with a PDN in a multiple DN hunt group (Program 209, FB06). The associated PDNís VMID code (Program 200, FB19) will be sent to voice mail.
206-09	Message Center FB09, n, Hold	n = Up to 16 digits	Enter the Message Waiting Center DN, VM Pilot Number or lowest member of VM hunt group.
206-11	Display Name FB11, n, Hold, Hold	n = Up to 16 digits	Select radio button for user name to be included in the list display of Large LCD (Directory Assistance).

Program 207

Note Use Program 207 only for CTX software versions R1.03 and above.

Assign the Feature button as a One Touch button using the following programs before using Program 207.

- Use Program 205 to assign DKT's feature button as a One Touch button
- Use Program 213 to assign the Add-on Module feature button as a One Touch button
- Use Program 215 to assign DSS Console feature button as a One Touch button

Button	Sequence	Value(s)	Summary
207	Single Touch Button Data Assignments 207, Hold		Assigns timing parameters to Primary DNS.
207-00	Primary DN n, Hold	n = Up to 5 digits	Enter Primary DN of DKT.
207-01	Feature Key Number FB01, n, Hold	n = 1~2860	Enter the feature number of the one touch button that registers the operating data.

Button	Sequence	Value(s)	Summary
207-02	Registration Data (See details below) FB02, n, Hold	n = Up to 64 digits	Registration of the operating data.

1. FB00 ñ Primary DN.
2. FB01 ñ The button that you assign as the One Touch Button on the DKT.

   You can assign the One Touch Button from the DKT for the DKT FB key, Add-on Module FB key and also DSS Console FB key. Follow the steps and examples below to assign One Touch Buttons for each of the following.

➤ To assign the One Touch Button for the DKT

➤ The data is 1~24. Example: FB1 is 1, FB20 is 20.

➤ To assign the One Touch Button for the Add-on Module

➤ Use four digits (1yzz) to assign the single touch button for the Add-on Module.

1 is for Add-on Module.
y is the location of Add-on Module (1 or 2)
zz is the feature button for the Add-on Module (01~20). zz is equal to two digits.
Example 1: FB01 for Add-on Module 1 is 1101
Example 2: FB20 for Add-on Module 2 is 1220

➤ To assign the One Touch Button for the DSS Console

➤ Use four digits (2yzz) to assign the single touch button for the DSS Console.

2 is for the DSS console
y is the location of DSS console (1~8)
zz is the feature button for DSS console (01~60). zz is equal to two digits.
Example 1: FB01 for DSS console 1 is 2101
Example 2: FB20 for DSS console 8 is 2860

3. FB02 ñ The Information data for One Touch Button

   From the programming DKT.

Note You will have to use the ESC code when programming the DKT. The table below gives you One Touch Data Entry sequences.

Table 1-24 One Touch Data Entry Sequences

Data for Single Touch Button	Setting code from DKT	Display Data
1~9, 0	1~9, 0	1~9, 0
*	[Vol Up] + *	&*
#	[Vol Up] + #	&#
Mode	[Vol Up] + [Mode]	&SK01
Page	[Vol Up] + [Page]	&SK02
Scroll	[Vol Up] + [Scroll]	&SK03
Feature	[Vol Up] + [Feature]	&SK04
Msg	[Vol Up] + [Msg]	&MSG
Mic	[Vol Up] + [Mic]	&MIC
Spkr	[Vol Up] + [Spkr]	&SPK

Table 1-24 One Touch Data Entry Sequences *(continued)*

Data for Single Touch Button	Setting code from DKT	Display Data
Spdial	[Vol Up] + [Spdial]	&SPD
Redial	[Vol Up] + [Redial]	&RDL
Cnf/Trn	[Vol Up] + [Cnf/Trn]	&CNF
Vol Up	[Vol Up] + [Vol Up]	&UP
Vol Down	[Vol Up] + [Vol Down]	&DWN
DKTís FB	[Vol Up] + [FB on DKT]	&FByy (yy=01-24)
ADMís FB	[Vol Up] + [FB on ADM]	&ADxyy (x=1,2 yy=01-20)
DSSís FB	[Vol Up] + [FB on DSS]	&DSxyy (x=1-8 yy=01-60)
Note & means ESC code		

Example for Setting the data of Single Touch Button from Programming DKT

1. Choose Program 207 and press Hold key.
2. Choose Primary DN number and press Hold Key.
3. Press FB01 and input digits for FB and press Hold key. In this case 12.
4. Press FB02 and Press [Vol Up][FB01]0425851234.

Table 1-25 Programs 208~218

Button	Sequence	Value(s)	Summary
208	Station Timer Assignments 208, Hold		Assigns timing parameters to Primary DNS.
208-00	Primary DN n, Hold	n = 1~640	Enter the Primary DN. Up to 5 digits (default = no value)
208-01	ABR Retry Count FB01, n, Hold	n = 5~20 (default = 15)	Enter the number of retry attempts made by ABR when dialing a busy telephone number.
208-02	ABR Retry Interval Timer FB02, n, Hold	n = Up to 5 digits (default = 60)	Select the amount of time (in seconds) ABR waits between dialing attempts.
208-03	ABR Recall Timer FB03, n, Hold	n = Up to 9 digits (default = 20)	Select the number of seconds ABR will call back the station after receiving ring back tone from the dialed number.
208-04	Hold Recall Timer FB04, n, Hold	n = Up to 5 digits (default = 60)	Select the number of seconds before a call is placed on hold recalls.
208-05	First Interdigit Timer FB05, n, Hold	n = 0~32 (default = 15)	Select the amount of time a Station has to dial after going off hook before a call is terminated (ROT is heard).
208-06	Second Interdigit Timer FB06, n, Hold	n = 0~180 (default = 5)	Select the amount of time the system waits between dialed digits before terminating a call (ROT is heard).
208-07	Ring Xfer No Answer Timer FB07, n, Hold, Hold	n = 0~600 (default = 32)	Select the Ring Transfer Idle station or Busy station (Camp-on) Recall Time (in seconds).

Table 1-25 Programs 208~218 *(continued)*

Button	Sequence	Value(s)	Summary
209	Station Hunting Group 209, Hold		This command assigns Station Hunting Group data.
209-00	Group Number n, Hold	n = Up to 3 digits 1~90 (CTX100) 1~200 (CTX670 Basic) 1~640 (CTX670 Exp.) (default = no value)	Hunt Group Number.
209-01	Hunt Method FB01, n, Hold	n = 1. Serial 2. Circular (for Multiple DN hunt groups) (default) 3. Distributed (for Voice Mail hunt groups)	Select Hunt Method.
209-02	Pilot Number FB02, n, Hold	n = Up to 5 digits	Enter Pilot Directory Number. This is the number that is dialed to call the hunt group. **Note** Any type of hunt group can have a pilot number. Distributed hunt groups must have a pilot number. Voice Mail hunt groups should be Distributed with a Pilot Number. Multiple DN Hunt groups should be Circular with no Pilot Number.
209-04	Number to Display FB04, n, Hold	n = Up to 5 digits	Enter the number that displays when called by, or when calling any member of the hunt group. **Note** This number should be the DH Group Pilot number for Voice Mail hunt groups. This number could be the PDN of a Multiple DN Hunt group, in which case the number would override the number assigned in Program 200, FB15 for PDNs and Program 206, FB04 for Phantom DNs.
209-05	Pilot No. SCF FB05, n, Hold	n = 0~4 (CTX100) 0~10 (CTX670 Basic) 0~32 (CTX670 Exp.) (default = 0)	Allows you to assign a System Call Forward pattern to the Pilot Number of a Hunt Group.
209-06	Multiple DN Hunt FB06, n, Hold	n = 1. Enable (default) 2. Disable	Enable if hunt group is created for multiple DN operation. Multiple DN hunt groups should be circular with no pilot number.
209-07	DHG Auto Camp-on FB07, n, Hold, Hold	n = 1. Enable 2. Disable (default)	Whether to execute Automatic Camp On to the Distributed Hunt Group or not. Should be applied to VM Distributed Hunt Groups so callers automatically camp on to Voice Mail when all VM ports are busy. Does not apply to Circular or Serial hunt groups.
210	Group Call Pickup 210, Hold		The Call Pickup Group assignment specifies which group numbers this station will participate when either the Group Call Pickup or the Group Directed Call Pickup features are invoked. A user may be assigned to more than one group.
210-00	Primary DN n, Hold	n = Up to 5 digits	Enter the Primary DN.
210-01~32	Group 1~32 FB01~FB32, n, Hold, Hold	n = 1. Yes 2. No (default)	Indicate whether this station is to participate in this Call Pickup group. **Note** 01~05 are available for CTX100, 01~10 are available for CTX670 Basic, and 01~32 are available for CTX670 Exp.
211	Delete Station Hunting Group		Delete Station Hunting Group
211-00	Delete Station Hunting Group	n = 1~90 (CTX100) 1~200 (CTX670 Basic) 1~640 (CTX670 Exp.) (default = 0)	Delete Station Hunting Group
213	ADM Feature Keys 213, Hold		The Feature Key assignment allows each key on the telephone to be addressed and assigned a code representing the function to be performed. Some feature keys require additional parameters to completely define the key. For example, a Phantom DN needs a directory number, ringing assignment, and the tone pitch when ringing occurs.
213-00	PDN+ADM yyyyyx, Hold	yyyyy = Primary DN (0~99999) x = ADM (1 or 2)	Enter a Primary DN plus an ADM number to Program ADM FBs. **Note** FB04 *Add on Modules* in Program 204 must be set to One or Two.

Table 1-25 Programs 208~218 *(continued)*

Button	Sequence	Value(s)	Summary
213-01	Key Number FB01~FB20		Press the desired FB to program.
	Code n, Spkr	n = 1~20	Select Desired Feature Code. See the Feature Code Table 1-22 on page 42. 100 - PDN 110 - PhDN 120 - CO 130 - GCO 140 - Pooled Line Button 540 - Door Lock Cancel 560 - PhDN Message Waiting 610 - DSS Button 900 - Start Application
	Parameter 1 n1, see Note **Note** For Feature Code 560, 610 and 900, make your selection and push Spkr for further options.	n1 = See ìFlexible Button Assignment Feature Code Tableî on page 1-42 and ìFeature/Button Code Parameter Assignmentsî on page 1-41 for more details.	This Parameter is required for all Feature Codes.
	Parameter 2 n2, see Note **Note** For Feature Code 100, make your selection and push Spkr for further options.	n2 = See ìFlexible Button Assignment Feature Code Tableî on page 1-42 and ìFeature/Button Code Parameter Assignmentsî on page 1-41 for more details.	This Parameter is required for all Feature Codes except Feature Codes 560, 610 and 900.
	Parameter 3 n3, see Note **Note** For Feature Code 110 and 140, make your selection and push Spkr for further options.	n3 = See ìFlexible Button Assignment Feature Code Tableî on page 1-42 and ìFeature/Button Code Parameter Assignmentsî on page 1-41 for more details.	This Parameter is required for Feature Codes 110, 120, 130 and 140 only.
	Parameter 4 n4, see Note **Note** For Feature Code 120, make your selection and push Spkr for further options.	n4 = See ìFlexible Button Assignment Feature Code Tableî on page 1-42 and ìFeature/Button Code Parameter Assignmentsî on page 1-41 for more details.	This Parameter is required for Feature Codes 120 and 130 only.
	Parameter 5 n5, see Note **Note** For Feature Code 130, make your selection and push Spkr for further options.	n5 = See ìFlexible Button Assignment Feature Code Tableî on page 1-42 and ìFeature/Button Code Parameter Assignmentsî on page 1-41 for more details.	This Parameter is required for Feature Codes 130 only.

Table 1-25 Programs 208~218 *(continued)*

Button	Sequence	Value(s)	Summary
214	DSS Console Assignment 214, Hold		This assignment allows up to eight Direct Station Selection (DSS) Consoles to be assigned to a station. The assignment is referenced to the stationsís Primary DN.
214-00	Primary DN n, Hold	n = Up to 5 digits	Enter the Prime Directory Number of the station that is to be associated with the DSS console(s).
214-01~08	DSS 1~DSS 8 FB01~FB08, xxyyzz, Hold, Hold	xx = Cabinet (01~07) yy = Slot (01~10) zz = Circuit (01~08)	Enter the DSS equipment number as xxyyzz. • Cabinet ñ Select 01 for Base and Expansion cabinet (CTX100). Select 01 for Base and 02~07 respectively for each Expansion cabinet (CTX670). • Slot ñ Select 01~04 for Base slots and 05~08 for Expansion slots (CTX100). Select 01~08 for Base slots and 01~10 for Expansion slots. Example: If the DSS console should be connected to a PDKU or BDKU/BDKS in cabinet shelf 5, slot 2, circuit 3, enter 050203. **Note** If a PDN is assigned to the DSS equipment number it must be deleted, using PRG201, before attempting to assign the DSS console.
215	DSS Feature Keys 215, Hold		The Feature Key assignment allows each key on the telephone to be addressed and assigned a code representing the function to be performed. Some feature keys require additional parameters to completely define the key. For example, a Phantom DN needs a directory number, ringing assignment, and the tone pitch when ringing occurs.
215-00	PDN+DSS yyyyyx, Hold	yyyyy = Primary DN (0~99999) x = DSS (1~8)	Enter a Primary DN plus DSS Key Assignment button to program DSS FBs. **Note** FB04 *Add on Modules* in Program 204 must be set to One or Two.

Table 1-25 Programs 208~218 *(continued)*

Button	Sequence	Value(s)	Summary
215-01	DSS Key Number FB01~FB20		Press the desired FB to program on your DSS.
	Code n, Spkr	n =	Select Desired Feature Code. See ìFlexible Button Assignment Feature Code Tableî on page 1-42. 100 - PDN 110 - PhDN 120 - CO 130 - GCO 140 - Pooled Line Button 540 - Door Lock Cancel 560 - PhDN Message Waiting 610 - DSS Button 900 - Start Application
	Parameter 1 n1, see Note **Note** For Feature Code 560, 610 and 900, make your selection and push Spkr for further options.	n1 = See ìFlexible Button Assignment Feature Code Tableî on page 1-42 and ìFeature/Button Code Parameter Assignmentsî on page 1-41 for more details.	This Parameter is required for all Feature Codes.
	Parameter 2 n2, see Note **Note** For Feature Code 100, make your selection and push Spkr for further options.	n2 = See ìFlexible Button Assignment Feature Code Tableî on page 1-42 and ìFeature/Button Code Parameter Assignmentsî on page 1-41 for more details.	This Parameter is required for all Feature Codes except Feature Codes 560, 610 and 900.
	Parameter 3 n3, see Note **Note** For Feature Code 110 and 140, make your selection and push Hold, Hold. Otherwise. push Spkr.	n3 = See ìFlexible Button Assignment Feature Code Tableî on page 1-42 and ìFeature/Button Code Parameter Assignmentsî on page 1-41 for more details.	This Parameter is required for Feature Codes 110, 120, 130 and 140 only.
	Parameter 4 n4, see Note **Note** For Feature Code 120, make your selection and push Spkr for further options.	n4 = See ìFlexible Button Assignment Feature Code Tableî on page 1-42 and ìFeature/Button Code Parameter Assignmentsî on page 1-41 for more details.	This Parameter is required for Feature Codes 120 and 130 only.
	Parameter 5 n5, see Note **Note** For Feature Code 130, make your selection and push Spkr for further options.	n5 = See ìFlexible Button Assignment Feature Code Tableî on page 1-42 and ìFeature/Button Code Parameter Assignmentsî on page 1-41 for more details.	This Parameter is required for Feature Codes 130 only.

Table 1-25 Programs 208~218 *(continued)*

Button	Sequence	Value(s)	Summary
216	Emergency Ringdown Assignment. 216, Hold		Assigns Emergency Ring Down parameters to Primary DNs.
216-00	Primary DN n, Hold	n = Up to 5 digits	Enter the Primary DN.
216-01	Emergency Ringdown FB01, n, Hold	n = 1. Enable 2. **Disable** (default)	Enable an Emergency Ringdown Number.
216-02	Emergency Ringdown Timer FB02, n, Hold	n = 5~60 (default = 0)	Enter the length of off-hook time, in seconds, that will cause a DN to originate an Emergency Ringdown **Note** For DKT and IPT stations do not set the timer for more than 30 seconds.
216-03	Destination FB03, n, Hold, Hold	n = Up to 5 digits	Enter the destination DN for the Emergency Ringdown.
217	ISDN Station Data 217, Hold		ISDN stations need a set of parameters to be set to define its capabilities. These include a Name when calling display phones, Call of Service settings, etc.
217-00	Primary DN n, Hold	n = Up to 5 digits	Enter Primary DN.
217-01	Station Name FB01, n, Hold,	n = Up to 9 digits	Enter a name for this station.
217-02	Dial Method FB02, n, Hold,	n = 1. **Dial Tone** (default) 2. Entry Tone 3. No Tone	Select the audible tone when dialing.
217-03	System Call Forward FB03, n, Hold,	n = 0~32 (default = 0)	Select the System Call Forward assignment for this station.
217-04	CF Password FB04, n, Hold,	n = Up to 4 digits	Protect the System Call Forward settings by creating a password.
217-05	Door Phone Override DND FB05, n, Hold,	n = 1. Enable 2. **Disable** (default)	Enable the Door Phone ringing indicator to override Do Not Disturb.
217-06	Emergency Call Group FB06, n, Hold,	n = 1~8 (default = 1)	Select this stationís emergency call group.
217-07	COS Override Code FB07, n, Hold,	n = 1. Enable 2. **Disable** (default)	Enable Class of Service override.
217-08	Display DN FB08, n, Hold,	n = Up to 5 digits	Enter the DN to be displayed on the LCD.
217-09	VMID Code SMDI FB09, n, Hold,	n = Up to 10 digits Digits 0~9, * and #	Enter the voice mail box number that should answer calls when this PDN calls voice mail; or, when this PDN is called and then forwards to voice mail (this number is prefixed by codes in Program 579, 11~16). **Note** This VMID code is sent to the voice mail device in SMDI packets or DTMF tones on direct and forwarded calls to the PDN. See Program 580 for SMDI or DTMF choice.
217-12	Name Display FB12, n, Hold, Hold	n = 1. Enable 2. **Disable**	Whether to put the user name in the list display.
218	Station Hunt Group Assignment 218, Hold		This assignment configures station DNs to hunt groups and assigns the order of rotation in which the DNs are hunted.

Table 1-25 Programs 208~218 *(continued)*

Button	Sequence	Value(s)	Summary
218-00	Hunt Group Number n, Hold	n = 1~640	Enter an existing Hunt Group number or use the List, Add, Append, Modify, or Delete buttons as described above.
218-01	Hunt Order FB01, n, Hold,	n = 1~560	This field assigns a station DNs position within a Hunt Groupís Hunt Order. Programmers should assign the last station in the Hunt Order first and assign the first station in the Hunt Order last.
218-02	DN FB02, n, Hold,	n = Up to 5 digits	Enter a new DN to the Hunt Groupís Hunt Order.
218-03	DN Set Type FB03, n, Hold, Hold	n = 1. **Modify** 2. Insert	Modify (replace) an existing assignment.
219	Network DSS Key Notify Data Delete 219, Hold		This program lets you disable the DSS function for the node ID entered in this screen.
219-00	Network DSS Node ID n, Hold	n =	**Important!** *Don't use this program unless requested by Toshiba Technical Support.* Enter the Node ID of the Network DSS key Notify Data to be deleted.

300 Series Programs

Table 1-26 Programs 300~302

Button	Sequence	Value(s)	Summary
300	Trunk Assignment 300, Hold		This command assigns an analog or T1 trunk (line) and its parameters to the system.
300-00	Line Number n, Hold	n = 1~64 (CTX100) 1~96 (CTX670 Basic) 1~264 (CTX670 Exp.)	Enter the Line Number.
300-01	Line Equipment No. FB01, xxyyzz, Hold	xx = Cabinet 1 (CTX100), 01~02 (CTX670 Basic), 01~07 (CTX670 Exp.) yy = Slot 01~8 (CTX100), 01~10 (CTX670) zz = Circuit (01~04) Ö or zz = T1 Circuit 01~24 (CTX670).	Enter the line equipment number as xxyyzz. Equipment numbers are required when assigning a new trunk to the system. It can also be used to display the equipment location of existing trunks. Example: If the trunk should be connected to an RCOU in cabinet shelf 5, slot 2, circuit 3, enter 050203. Cabinet numbers: • CTX100 ñ Select 01 for Base and Expansion cabinet. • CTX670 ñ Select 01 for Base and 02~07 respectively for each Expansion cabinet. Slot numbers: • CTX100 ñ Select 01~04 for Base slots and 05~08 for Expansion slots. • CTX670 ñ Select 01~08 for Base slots and 01~10 for Expansion slots.
300-02	Incoming Line Group FB02, n, Hold	n = 0~32 (CTX100) 0~50 (CTX670 Basic) 0~128 (CTX670 Exp.) (default = 0)	Assign the trunk to Incoming Line Group. Two-way trunks need to be members of one incoming and one outgoing line group.
300-03	Outgoing Line Group FB03, n, Hold	n = 0~32 (CTX100) 0~50 (CTX670 Basic) 0~128 (CTX670 Exp.) (default = 0)	Assign the trunk to Outgoing Line Group. Two-way trunks need to be members of one incoming and one outgoing line group.
300-04	Dial Mode FB04, n, Hold	n = 1. Rotary Dial 10PPS 2. Rotary Dial 20PPS 3. DTMF (default)	Enter the Dial Mode. • DP 10 PPS = Rotary Dial, 10 PPS • DP 20 PPS = Rotary Dial, 20 PPS
300-05	Signaling FB05, n, Hold	n = 1. DID 2. Loop (default) 3. Ground 4. Tie 5. LP (Japan) 6. SR (Japan) 7. ACU (UK)	Enter the signalling type.
300-06	Start Method FB06, n, Hold	n = 1. Immediate Start (default) 2. Timing Start 3. Wink Start	Enter the Start Method. This setting defines the start protocol method used between the PSTN and this trunk. For DID/Tie trunks.
300-07	Release Supervision FB07, n, Hold	n = 1. Received 2. Not Received (default)	Enable Release Supervision from the CO.
300-08	Answer Supervision FB08, n, Hold	n = 1. Received 2. Not Received (default)	Enable Answer Supervision from the CO.
300-09	Trunk Name	n = Up to 14 digits	Enter the trunk name. **Note** This function is accessible only through CTX WinAdmin.
300-10	External Ring Repeat FB10, n, Hold	n = 1. Supplied (default) 2. Not Supplied	Supply the External Ringing Signal pattern to stations. For behind PBX/Centrex trunks.

Table 1-26 Programs 300~302 *(continued)*

Button	Sequence	Value(s)	Summary
300-11	DTMF Back Tone FB11, n, Hold	n = 1. Padded 2. DTMF Tone (default) 3. No Tone	Select DTMF Back Tone type.
300-12	Hunt Order FB12, n, Hold	n = 1~999 (default = 1)	Change the trunk hunting order sequence for this Trunk.
300-13	Immediate Cut-Through FB13, n, Hold, Hold	n = 1. Enable 2. Disable (default)	This option should be enabled on a line only if the talk-path must be established immediately after seizing a selected outgoing line. Example, a line connected to a Central Office Ringdown circuit. **CAUTION! This option will bypass Destination Restriction and E911 digit analysis. Do not enable this option on a line where these functions are required.** This option is available only on ground and loop, analog or T1 circuits. It should not be enabled for Tie, DID, ISDN and QSIG lines. Available with CTX R1.01, M22 and above software.
301	Delete Trunk 302, Hold		Deletes trunks from the system.
301-01	Trunk Number n, Hold	n = 1-264	Enter the Trunk Number to be deleted (1~264)
302	PRI Trunks 302, Hold		The PRI and IP QSIG interface cards need to have a number of assignments for defining its operation. These include which channels are available for use and the location of the D channel or signaling channel. A number of optional functional capabilities also need to be enabled or disabled.
302-00	Channel Group n, Hold	n = 1~32 (CTX100) 1~48 (CTX670 Basic) 1~128 (CTX670 Exp.)	Channel Group Number
302-01	RPTU Equipment No. FB01, xxyyzz, Hold	xx = Cabinet 1 (CTX100), 01~02 (CTX670 Basic), 01~07 (CTX670 Exp.) yy = Slot 01~8 (CTX100), 01~10 (CTX670) zz = Circuit 01	Enter the ISDN RPTU equipment number as xxyyzz. **Note** zz = Channel 01 is always used to assign RPTU parameters Example: If the RPTU is installed in cabinet shelf 5, slot 3, enter 050301.Enter the equipment number xxyyzz to which the ISDN PRI Trunk is to be assigned. Equipment numbers are required when assigning ISDN RPTU parameters in the system. It can also be used to display the equipment location of existing RPTU PCBs.
302-02	Protocol FB02, n, Hold	n = 1. Natíl ISDN 2. ETSI 3. TTC 4. Natíl ISDN - Nortel 5. **QSIG**	The Protocol to be followed defines the type of interface expected based upon the equipment type at the distant end of the connection.
302-03	ILG FB03, n, Hold	n = 0~32 (CTX100) 0~48 (CTX670 Basic) 0~128 (CTX670 Exp.) (default = 0)	Primary ISDN needs to have Trunk Group assignments to process the calls being received. If multiple trunk groups are used within the Channel Group, then Call-by-Call Services must be used.
302-04	OLG FB04, n, Hold	n = 0~32 (CTX100) 0~48 (CTX670 Basic) 0~128 (CTX670 Exp.) (default = 0)	Primary ISDN needs to have Trunk Group assignments to process the calls being originated. If multiple trunk groups are used within the Channel Group, then Call-by-Call Services must be used.
302-05	Trunk ID Type FB05, n, Hold	n = 1. **Implicit** 2. Explicit	Identify whether the communication with the PSTN requires an identifier. Select Explicit to require an identifier.

Table 1-26 Programs 300~302 *(continued)*

Button	Sequence	Value(s)	Summary
302-06	Trunk ID Number FB06, n, Hold	n = 0~126 (default = 0)	An identifier must be used as part of the addressing when an ìexplicitî identified is used to communicate with the PSTN which channel on which link is used for the given call. This identifier is assigned by the connected PSTN.
302-07	D Ch Position FB07, n, Hold	n = 1~24 (default = 24)	PRI includes a 64-kbps D-channel (for transfer of signal information). Select the channel position to be used for D channel signaling. **Note** This field is used only when the span interface speed is 1.5M. If the span interface speed is 2M the value is fixed at 16.
302-08~13	Bearer Services: • Speech • 3.1 KHz Audio • 7 KHz Audio • Unrestr. 64K • Unrestr. 56K • Unrestr. 2x64K FB08~FB13, n, Spkr, n1, Hold	n = 1. Enable 2. Disable n1 = 1. Channel Number 2. Slot Map	Enable the Bearer Capabilities allowed for this PRI Trunk channel group. Select the Channel Method (map) to identify the channels. **Note** In North America, only Channel Number map is used (Channel Number).
302-14~18	Bearer Services: • Unrestr. 384K • Unrestr. 1536K • Unrestr. 1920K • Restr. Digital • Video FB14~FB18, n, Spkr, n1, Hold	n = 1. Enable 2. Disable (default) n1 = 1. Channel Number B 2. Channel Number H 3. Slot Map B 4. Slot Map H	The Bearer Capabilities (384k Unrestricted(H0), 1536k Unrestricted(H11), 1920k Unrestricted, Restricted Digital Info, Trunk Video, and Unrestricted Multirate) are not used and should remain disabled. Select the Channel Method (map) to identify the channels. **Note** In North America, only Channel Number B map is used.
302-19	Bearer Service Multirate Unrestricted FB19, n, Hold	n = 1. Enable 2. Disable (default)	The Bearer Capabilities 384k Unrestricted (H0), 1536k Unrestricted (H11), 1920k Unrestricted, Restricted Digital Info, Trunk Video and Unrestricted Multirate are not used and should remain disabled.
302-20	B Ch Selection Method FB20, n, Hold	n = 1. Exclusive 2. Preferred 3. Any	The method used for selecting an idle ëBí channel and the reaction if the PSTN indicates the channel is not available needs to be chosen to originate a call from CTX. Preferred option is recommended, unless PSTN needs other choice.
302-21	B Ch Selection FB21, n, Hold	n1 = 1. Forward Cyclic 2. Backward Cyclic 3. Forward Terminal 4. Backward Terminal	The search method for choosing an idle ëBí channel shall also be specified. Backward Terminal is the normal method with the PSTN following a Forward Terminal method.
302-22	T1 Time Slot Pattern FB22, n, Hold	n = 1. Fixed1 (default) 2. Fixed2 3. Flexible	1544 Time Slot Pattern.
302-23	E1 Time Slot Pattern FB23, n, Hold	n = 1. Fixed1 (default) 2. Fixed2 3. Flexible	2048 Time Slot Pattern.
302-24	T-Wait Timer FB24, n, Hold	n = 1. Enable 2. Disable (default)	Specify whether the T-Wait timer is to be enabled or disabled. This field is only valid for Natíl ISDN.
302-25	RBT on Incoming Call FB25, n, Hold	n = 1. Enable (default) 2. Disable	Enable Ringback Tone when terminating a call. This field is only valid for Natíl ISDN.
302-26	Network Mode FB26, n, Hold	n = 1. Master 2. Slave (default)	Set this span as Master or Slave for Layer 2 of a QSIG PRI. The opposite value must be set for the node in which this QSIG PRI terminates. This governs call setup activity and is not related to clock synchronization.
302-27	Negotiation Priority FB27, n, Hold	n = 1. Side A (default) 2. Side B	Sets this span as Side A or Side B for Layer 3 of a QSIG PRI. The opposite value must be set for the node in which this QSIG PRI terminates.

Table 1-26 Programs 300~302 *(continued)*

Button	Sequence	Value(s)	Summary
302-28	Layer 1 Short Break Tolerant FB28, n, Hold	n = 1. Enable 2. Disable	Sets this span as Side A or Side B for Layer 3 of a QSIG PRI. The opposite value must be set for the node in which this QSIG PRI terminates. (Not used in U.S.A. Used in the UK.)
302-29	2-B channel Transfer FB29, n, Hold	n = 1. Enable 2. Disable	Enable this option to allow 2-B channel conference on PRI calls. This allows to PRI channels to be connected in the same conference or Tandem call. **Note** This option must also be enabled by PRI provider to allow it to work.
302-30	Q931 Protocol Timer FB30, n, Hold	n = 1. Normal 2. Long	Sets the Q931 Protocol Timer. If Long is set, T303 is 8s and T301 is 300s.

Table 1-27 Bearer Services Table

Bearer Services			Nat'l ISDN	ETSI	TTC
Circuit Mode	Speech		X	X	X
	3.1 KHz Audio		X	X	X
	7 KHz Audio			X	X
	unrestricted digital information	64 kbps	X	X	X
		Rate adaptation from 56 kbps	X		
		2x64		X	X
		384kbp (H0)	X	X	X
		1536kbps (H11)	X	X	X
		1920kbps (H12)		X	
		multirate (n x 64 kbps)	X		
	Restricted digital Information			X	X
	Video			X	X
Packet Mode	Shelf/Slot/Circuit				

Table 1-28 Programs 303~315

Button	Sequence	Value(s)	Summary
303	ISDN Trunk Delete 303, Hold		This command deletes ISDN Trunks.
303-00	Channel Group Number n, Hold, Hold	n = 1~32 (CTX100) 1~48 (CTX670 Basic) 1~128 (CTX670 Exp.)	Enter the channel group number to delete.
304	Incoming Line Group Assignment 303, Hold		This assignment is used to configure ILGs only, OLGs are configured in the Outgoing Line Group Assignment 306. The same line can be placed in an ILG and OLG.
304-00	Group Number n, Hold	n = 1~32 (CTX100) 1~50 (CTX670 Basic) 1~128 (CTX670 Exp.)	Enter the group number of the line group that should be configured.

Table 1-28 Programs 303~315 *(continued)*

Button	Sequence	Value(s)	Summary
304-01	Group Type FB01, n, Hold	n = 1. Analog (default) 2. ISDN	Select the ILG Type.
304-02	Trunk Type FB02, n, Hold	n = 1. CO (default) 2. Tie	Select the Trunk Type.
304-03	Service Type FB03, n, Hold	n = 1. DID 2. DIT (default)	Select CO Trunk Service Type.
304-04	Private Service Type FB04, n, Hold	n = 1. Standard (default) 2. QSIG	Select the Tie Trunk Service Type. This field is required when Trunk Type is set to Tie.
304-05	GCO Key Number FB05, n, Hold	n = 0~32 (CTX100) 0~50 (CTX670 Basic) 0~128 (CTX670 Exp.) (default = 0)	Select ILG GCO Key Group for DIT mode (see Trunk Type above). The same GCO cannot belong to different ILGs.
304-06	Pooled Key Number FB06, n, Hold	n = 0~32 (CTX100) 0~50 (CTX670 Basic) 0~128 (CTX670 Exp.) (default = 0)	Select ILG Pooled Line Key Group for DIT mode. The same Pooled Line Group cannot belong to different ILGs. 0~128 (CTX670), 0~32 (CTX100) (default = 0)
304-07	COS FB07, n, Spkr, n, Spkr, n, Hold	n = 1~32 (default = 1)	Select Day 1, Day 2 and Night Values.
304-08	DRL FB08, n, Spkr, n, Spkr, n, Hold	n = 1~16 (default = 1)	Select Day 1, Day 2 and Night Values.
304-09	FRL FB09, n, Spkr, n, Spkr, n, Hold	n = 1~16 (default = 1)	Select Day 1, Day 2 and Night Values.
304-10	QPL FB10**, n,** Spkr**, n,** Spkr**, n,** Hold	n = 1~16 (default = 1)	Select Day 1, Day 2 and Night Values.
304-11	DID Digits FB11, n, Hold	n = 0~7 (default = 0)	Select number of DID digits received from CO.
304-12	Speech/3.1 KHz FB12, n, Hold	n = 1. **Audio** (default) 2. Speech	Select Bearer Capability 3.1 KHz Audio or Speech.
304-13	Ringing Timer Delay 1 FB13, n, Hold	n = 0~60 sec. (default = 12)	Select time to ring the Delay 1 destination.
304-14	Ringing Timer Delay 2 FB14, n, Hold	n = 0~60 sec. (default = 24)	Select time to ring the Delay 2 destination.
304-15	Interdigit 1 Timer FB15, n, Hold	n = 1~180 sec. (default = 15)	Select Interdigit 1 timer value.
304-16	Interdigit 2 Timer FB16, n, Hold	n = 1~180 sec. (default = 5)	Select Interdigit 2 timer value.
304-17	Auto Camp-on FB17, n, Hold	n = 1. **Enable** (default) 2. Disable	Select in box to toggle Automatic Camp-on.
304-18	Calling Number ID FB18, n, Hold	n = 1. **User Provided** (default) 2. Network Provided	Select Calling Number Identification source.

Table 1-28 Programs 303~315 *(continued)*

Button	Sequence	Value(s)	Summary
304-19	Intercept FB19, n, Hold	n = 1. Enable 2. **Disable** (default)	Enable Intercept. A call is transferred to a special destination called intercept position when the destination of a trunk line call is not determined with DID, DIT or DISA. Intercept is also activated when the destination is determined, but the call cannot be terminated due to a defect or an incorrect number. If the system has a simplified attendant console, the attendant console is usually specified to terminate the call. This function ensures termination of a trunk line call.
304-20	Send Dial Tone FB20, n, Hold	n = 1. Enable 2. **Disable** (default)	Enable Send Dial Tone.
304-21	TGAC Override FB21, n, Hold	n = 1. Enable 2. **Disable** (default)	Enable Trunk Group Access Code (TGAC) override.
304-22	Network COS FB22, n, Hold	n = 1~32 (default = 1)	Enter the Network COS number.
304-23	LCR Group FB23, n, Hold	n = 1~16 (default = 1)	Enter the LCR Group number. Calls from this ILG cannot tandem if this field is not entered.
304-24	Change COS Override Code FB24, n, Hold	n = 1. Enable 2. Disable (default)	Enable authority to change COS Override Code.
304-25	Register Speed Dial Codes FB25, n, Hold	n = 1. Enable 2. Disable (default)	Enable authority to create system speed dial codes.
304-26	Originator Invoke OCA FB26, n, Hold	n = 1. Enable 2. Disable (default)	Enable authority for the originator of a call to invoke OCA when encountering a busy station.
304-27	Senderized Tone Mode FB27, n, Hold	n = 1. Dial Tone (default) 2. Entry Tone 3. Silence	Send DTMF tones as a complete number rather than digit-by digit.
304-28	Emergency Call Group FB27, n, Hold, Hold	n = 1~8 (default = 1)	Used to enable E911 calling across a QSIG network. The QSIG ILG is assigned to an Emergency Call Group in the same way a station is in Program 200 FB17. Without this assignment, the call will not attempt to complete to one of the trunks in the Emergency Group and will result in an abandoned call. See Program 550 ìEnhanced 911 Emergency Call Groupî on page 1-87.
304-29	Tenant Number FB29, n, Hold, Hold	n = 1~8 (default = 1)	Enter the Tenant number to which this DID should be assigned.
305	ILG Delete 305, Hold		This command deletes Incoming Line Groups.
305-00	ILG Number n, Hold, Hold	n = 1~32 (CTX100) 1~50 (CTX670 Basic) 1~128 (CTX670 Exp.)	Enter the ILG number to delete.
306	Outgoing Line Group Assignment 306, Hold		OLG is a line selection feature which enables the use of external trunk or private line groups for outgoing service. Assign and configure up to 128 OLGs (the same line can be placed in an OLG and an ILG).
306-00	Group Number n, Hold	n = 1~32 (CTX100) 1~50 (CTX670 Basic) 1~128 (CTX670 Exp.)	Enter the OLG Group number.
306-01	Group Type FB01, n, Hold	n = 1. Analog (default) 2. ISDN	Select the OLG Type.
306-02	Trunk Type FB02, n, Hold	n = 1. CO (default) 2. Tie	Select the Trunk Type.

Table 1-28 Programs 303~315 *(continued)*

Button	Sequence	Value(s)	Summary
306-03	Service Type FB03, n, Hold	n = 1. Standard (default) 2. QSIG	TIE Trunk Service Type.
306-04	GCO Key1 Number FB04, n, Hold	n = 0~32 (CTX100) 0~50 (CTX670 Basic) 0~128 (CTX670 Exp.) (default = 0)	Select the first GCO Key Group number.
306-06	Pooled Key1 Number FB06, n, Hold	n = 0~32 (CTX100) 0~50 (CTX670 Basic) 0~128 (CTX670 Exp.) (default = 0)	Select first Pooled Line Key Group number.
306-07	Pooled Key2 Number FB07, n, Hold	n = 0~32 (CTX100) 0~50 (CTX670 Basic) 0~128 (CTX670 Exp.) (default = 0)	Select second Pooled Line Key Group number.
306-08	COS FB08, n, Spkr, n, Spkr, n, Hold	n = 1~32 (default = 1)	Select Day 1, Day 2 and Night Values.
306-09	FRL FB09, n, Spkr, n, Spkr, n, Hold	n = 1~16 (default = 1)	Select Day 1, Day 2 and Night Values.
306-10	QPL FB10, n, Spkr, n, Spkr, n, Hold	n = 1~16 (default = 1)	Select Day 1, Day 2 and Night Values.
306-11	Speech/3.1 KHz FB11, n, Hold	n = 1. Audio (default) 2. Speech	Bearer Capability 3.1 KHz Audio or Speech.
306-12	MOH Source FB12, n, Hold	n = 1. Quiet Tone 2. External 1 (default) 3. External 2 4. External 3 5. External 4 6. External 5 7. External 6 8. External 7 9. External 8 10. External 9 11. External 10 12. External 11 13. External 12 14. External 13 15. External 14 16. External 15	Select MOH Source.
306-13	Account Codes FB13, n, Hold	n = 1. Enable 2. Disable (default)	Enable Trunk forced Account Codes.
306-14	Destination Restriction FB14, n, Hold	n = 1. Enable 2. Disable (default)	Enable Destination Restriction.
306-15	Credit Cart Calling FB15, n, Hold	n = 1. Enable 2. Disable (default)	Enable Credit Card Calling.
306-16	Send CESID FB16, n, Hold	n = 1. Enable 2. Disable (default)	Enable CESID sending.
306-17	QSIG Sending Type FB17, n, Hold	n = 1. Cut through (default) 2. Senderized	Digit sending Mode for QSIG only.

Table 1-28 Programs 303~315 *(continued)*

Button	Sequence	Value(s)	Summary
306-18	Network COS FB18, n, Hold, Hold	n = 1~32 (default = 1)	Select Network COS number.
307	OLG Delete 307, Hold		This command deletes Outgoing Line Groups.
307-00	OLG Number n, Hold, Hold	n = 1~32 (CTX100) 1~50 (CTX670 Basic) 1~128 (CTX670 Exp.)	Enter the OLG number to delete.
308	Trunk Timers 308, Hold		Assigns trunk timers for analog and T1 trunks.
308-00	Trunk Equipment No. xxyyzz, Hold	xx = Cabinet 1 (CTX100), 01~02 (CTX670 Basic), 01~07 (CTX670 Exp.) yy = Slot 01~8 (CTX100), 01~10 (CTX670) zz = Circuit 01~24	Enter the trunk equipment number. **Note** Equipment numbers are required when assigning a new trunk to the system. It can also be used to display the equipment location of existing trunks.
308-01	Auto Release FB01, n, Hold,	n = 1. Disable 2. Detect 95ms 3. **Detect 450ms** (default)	Select the Automatic Release timing. **Note** Select Disable if the CO does not send the automatic release signal to the loop start trunk.
308-02	Short Flash FB02, n, Hold,	n = 0~15, where 1 = 100msec. (default = 5, which is .5 seconds) 0 = no flash	Select Short Flash Time. When a telephone initiates the short flash signal to the CO line it is connected to (using the short Flash feature button or access code #450) the duration of a short flash is determined by this command. Normally this signal is used to hook flash a centrex line. The short flash range is 0 to 1.5 seconds in increments of 0.1 seconds.
308-03	Long Flash FB03, n, Hold	n = 0, 5, 10, 15, 20, 25 and 30, where 5 = .5 seconds. (default = 20)	Select Long Flash Time. When a telephone initiates the long flash signal to the CO line it is connected to (using the Long Flash feature button or access code #451) the duration of a long flash is determined by this command. Normally this signal is used to disconnect the line. The long flash range is 0 to 3 seconds in increments of 0.5 seconds.
308-04	Pause after Flash FB04, n, Hold	n = 0~5, 0 = immediately sent, and 1sec.delay to 5sec.delay (default = 1 second delay before sending digits)	Pause time after flash: After a flash signal is sent to a CO line, this timer determines when the line will start to send the dialed digits to the other end.
308-04	Response Timer FB05, n, Hold	n = 0~3000	The response timer is for analog DID/TIE lines that have the ìstart methodî set for ìTimingî in Program 300-06. After a line is seized this timer determines when the line will start to send the dialed digits to the other end. Possible Values 0=immediatly sent, and 50msec.delay to 500msec.delay. (default=500mseconds delay before sending digits).
309	Direct Inward Dialing 309, Hold		This command assigns DID Number Analysis Table to ILG.
309-00	ILG Number n, Hold,	n = 1~32 (CTX100) 1~50 (CTX670 Basic) 1~128 (CTX670 Exp.)	Select the ILG number.
309-01	DID Number FB01, n, Hold	n = 1~7 digits may include wild card ì?î where ì?î = 0~9	Enter a DID number.

Table 1-28 Programs 303~315 *(continued)*

Button	Sequence	Value(s)	Summary
309-02	MOH Source FB02, n, Hold	n = 1. Quiet Tone 2. **External 1** (default) 3. External 2 4. External 3 5. External 4 6. External 5 7. External 6 8. External 7 9. External 8 10. External 9 11. External 10 12. External 11 13. External 12 14. External 13 15. External 14 16. External 15	Set Music On Hold for Analog ISDN DID Trunk
309-03	GCO Key Group FB03, n, Hold	n = 0~32 (CTX100) 0~50 (CTX670 Basic) 0~128 (CTX670 Exp.) (default = 0)	GCO Key Group number.
309-04	Pool Key Group FB04, n, Hold	n = 0~32 (CTX100) 0~50 (CTX670 Basic) 0~128 (CTX670 Exp.) (default = 0)	Pooled Line Key Group
309-05~07	Audio Day1/Day2/ Night Destination Type FB05~FB07, n, Spkr	n = 1. **No Data** (default) 2. Dialing Digits 3. DISA 4. Built-in modem 5. Night Bell	Select the Destination Type for Audio/Speech calls.
	Audio Day1/Day2/ Night Destination Digits n1, Hold	n1 = Up to 32 digits	Enter the Destination Directory Number or Access Code. If Dialing Digits is the Destination Type enter the Directory Number that the line should ring. If the line should ring over external page, enter #31xx, where xx is the external Page group number. If the default page access code #31 was changed, use the new page access code as the leading digits. Line access codes and network routing numbers can also be entered to route incoming calls back out to a public or private network number.
309-08~10	Data Day1/Day2/ Night Destination Type FB08~FB10, n, Spkr	n = 1. **No Data** (default) 2. Dialing Digits 3. DISA 4. Built-in modem 5. Night Bell	Select the Destination Type for Audio/Speech calls.
	Data Day1/Day2/ Night Destination Digits n1, Hold	n1 = Up to 32 digits	Enter the Destination Directory Number or Access Code. If Dialing Digits is the Destination Type enter the Directory Number that the line should ring. If the line should ring over external page, enter #31xx, where xx is the external Page group number. If the default page access code #31 was changed, use the new page access code as the leading digits. Line access codes and network routing numbers can also be entered to route incoming calls back out to a public or private network number.

Table 1-28 Programs 303~315 *(continued)*

Button	Sequence	Value(s)	Summary
309-11	DNIS VMID Code FB11, n, Hold	n = Up to 10 digits	Enter the VM mail box number which should answer calls for this DID/DNIS number. **Note** This code is only sent if using SMDI VM integration in Program 580, 01. This code will be replaced, after voice mail answers, by the DTMF code set in Program 309, 15 DID/DNIS DTMF VMID code - if programmed; therefore, if using Program 309, 15 code, this VMID code is not necessary. This mail box number will be sent to voice mail on a DID/DNIS call that rings directly to voice mail; and, on a direct DID/DNIS call to a DN that forwards to voice mail before it is answered by the DN. If a DID/DNIS call is answered by a station and then transferred to a DN that forwards to voice mail, this mail box number of the DID/DNIS number or the forwarding DN's mail box number will be sent to voice mail per Program 579, 01. If this VMID code is not set, direct DID/DNIS calls will go to the VM general greeting and DID/DNIS calls that forward from a DN to VM will go to the DN's VMID mail box. This Voice Mail box number is added to SMDI packets direct and forwarded DID\DNIS calls to voice mail as explained above.
309-12	DNIS Name FB12, n, Hold	n = Up to 16 digits	Enter DNIS name. DNIS names can be assigned from the CTX WinAdmin (not from programming phones).
309-15	VM Dial FB15, n, Hold, Hold	n = Digits 0~9, * and #. For a pause enter Px, where x=0~9 (seconds), up to 10 characters (default = no value).	Enter the VM mail box number which should answer calls for this DID/DNIS number. This mail box number will be sent to voice mail on a DID/DNIS call that rings directly to voice mail; and, on a direct DID/DNIS call to a DN that forwards to voice mail before it is answered by the DN. If a DID/DNIS call is answered by a station and then transferred to a DN that forwards to voice mail, this mail box number of the DID/DNIS number or the forwarding DN's mail box number will be sent to voice mail per Program 579, 01. If this VMID code is not set, direct DID/DNIS calls will go to the VM general greeting and DID/DNIS calls that forward from a DN to VM will go to the DN's VMID mail box. This voice mail box number is sent to the VM port, as DTMF digits, after the VM port answers a DID/DNIS call as explained above. These digits are sent to the VM port if the CTX is set for SMDI or DTMF integration in Program 580, 01.
309-16	Tenant Number FB16, n, Hold, Hold	n = 1~8 (default = 1)	Enter the Tenant number to which this DID should be assigned.
310	DIT Assignment 310, Hold		This command assigns DIT Number Analysis Table for DIT trunks. DIT trunks are ground and loop start trunks.
310-00	Line Equipment No. xxyyzz, Hold	xx = Cabinet 1 (CTX100), 01~02 (CTX670 Basic), 01~07 (CTX670 Exp.) yy = Slot 01~8 (CTX100), 01~10 (CTX670) zz = Circuit 01~24	Enter the trunk equipment number. Equipment numbers are required when assigning a new trunk to the system. It can also be used to display the equipment location of existing trunks. Example: If a line should be assigned to an RCOU in cabinet shelf 5, slot 2, circuit 3, enter 050203. Cabinet numbers: • CTX100 ñ Select 01 for Base and Expansion cabinet. • CTX670 ñ Select 01 for Base and 02~07 respectively for each Expansion cabinet. Slot numbers: • CTX100 ñ Select 01~04 for Base slots and 05~08 for Expansion slots. • CTX670 ñ Select 01~08 for Base slots and 01~10 for Expansion slots.

Table 1-28 Programs 303~315 *(continued)*

Button	Sequence	Value(s)	Summary
310-01~03	Day1/Day2/Night Destination Type FB01~FB03, n, Spkr	n = 1. No Data (default) 2. Dialing Digits 3. DISA 4. Built-in Modem 5. Night Bell	Select Destination Type for each. • No Data ñ no destination will ring when the line rings into the system. • Dialing Digits ñ assigns the line to ring the directory number or access code defined in the ìDestination Digitsî assignment • DISA ñ assigns the line to ring in as a DISA call. DISA dial tone will be returned to the caller. • Modem ñ assigns the line to ring the remote maintenance modem on the CTX processor. Used to call into the system with a CTX WinAdmin PC and modem. • Night Bell ñ Assigns the line to cause the night relay to pulse (one-sec. close/3-sec. open)
	Day1/Day2/Night Destination Digits n1, Hold	n1 = Up to 32 digits	Enter Destination, Directory Number or Access Codes for each, only if Dialing Digits is selected as Destination Type. • If Dialing Digits is the Destination Type, enter the Directory Number that the line should ring.If the line should ring over external page, enter #31xx, where xx is the external Page group number. • If the default page access code #31 was changed, use the new page access code as the leading digits. • Line access codes and network routing numbers can also be entered to route incoming calls back out to a public or private network number.
310-04	MOH Source FB04, n, Hold, Hold	n = 1. Silence 2. External 1 (default) 3. External 2 4. External 3 5. External 4 6. External 5 7. External 6 8. External 7 9. External 8 10. External 9 11. External 10 12. External 11 13. External 12 14. External 13 15. External 14 16. External 15	Select the MOH source for Analog DIT Trunk. The Scroll key must be used to select MOH sources indicated by 10 or higher.
311	DISA Security Codes 311, Hold		This command assigns DISA parameters.
311-01	DISA Enabled FB01, n, Hold	n = 1. Enable 2. **Disable** (default)	Enable DISA security code.
311-02	DISA Code FB02, n, Hold	n = Up to 15 digits	Enter DISA security code.
311-03	Response Timer FB03, n, Hold	n = 0~30 (default = 5)	Enter the time, in seconds, for Strata CTX to respond to a call.
311-04	Idle Timer FB04, n, Hold, Hold	n = 0~60 (default = 10)	Enter the time in seconds to wait for idle DTMF.
311-05	Tie Line Access FB05, n, Hold, Hold	n = 1. Enable 2. Disable (default)	Enable this feature to allow DISA callers to access Tie lines when they call into the system.
312	DID Number Delete 312, Hold		This command deletes DID Number.
312-00	ILG Number	n = 1~32 (CTX100) 1~50 (CTX670 Basic) 1~128 (CTX670 Exp.) (default = 0)	ILG Number.

Table 1-28 Programs 303~315 *(continued)*

Button	Sequence	Value(s)	Summary
312-01	DID Number	n = up to seven digits	DID Number to be deleted.
313	Caller ID Assignment 313, Hold		This program assigns Caller ID circuits to the CO Line to which the circuit is connected. The ANI, DNIS, DID formats for TI and analog DID CO Lines are also defined.
313-00	Trunk Number n, Hold,	n = 1~64 (CTX100) 1~96 (CTX670 Basic) 1~264 (CTX670 Exp.)	Enter the Trunk Number.
313-01	Signalling Method FB01, n, Hold	n = 1. None (default) 2. ANI/DNIS-MCI 3. ANI/DNIS-Sprint 4. CLASS (Caller ID)	Specify the format for the interface being used.
313-02	Signalling Contents FB02, n, Hold	n = 1. ANI and DNIS (default) 2. ANI only 3. DNIS only 4. DID only	Specify the contents of the ANI/DNIS format.
313-03	CLASS Equipment Position FB03, xxyyzz, Hold	xx = Cabinet 01 (CTX100), 01~02 (CTX670 Basic), 01~07 (CTX670 Exp.) yy = Slot 01~8 (CTX100), 01~10 (CTX670) zz = Circuit 01~08	If the CLASS type is chosen, the trunk must be assigned to a Caller ID circuit. Enter the RCIU/RCIS equipment number as xxyyzz. **Notes** • CLASS equipment numbers are required when assigning a trunk to a RCIU/RCIS circuit. • It can also be used to display the equipment location of existing caller ID circuit to trunk assignments. Example: If the trunk should be connected to a caller ID circuit (RCIU/RCIS) in cabinet shelf 5, slot 2, circuit 3, enter 050203.
315	T1 Trunk Card 313, Hold		This command assigns T1 Trunk Card Data to the system.
315-00	T1 Equipment Location xxyy, Hold	xxyy xx = Cabinet 01, yy = slot 01, 03, 05, or 07 Ö or xx = Cabinet 02~07, yy = slot 01, 03, or 05	Enter the RDTU PCB equipment location as xxyy: Example: If the RDTU is installed in cabinet shelf 5, slot 3, enter 0503. Cabinet numbers: CTX100: Select 01 for Base and Expansion cabinet. CTX670: Select 01 for Base and 02~07 respectively for each Expansion cabinet. Slot numbers: CTX100: Select 01~04 for Base slots and 05~08 for Expansion slots. CTX670: Select 01~08 for Base slots and 01~10 for Expansion slots.
315-01	Coding Format FB01, n, Hold	n = 1. None 2. PZC 3. B8ZS (default) 4. ZCS	Select the Coding Format.
315-02	Frame Format FB02, n, Hold	n = 1. None 2. SF mode 3. ESF mode (default)	Select the Frame Format.
315-03	Time Slots	n = 1. None 2. 8 Time Slots (default) 3. 16 Time Slots 4. 24 Time Slots	Set the number of Time Slots to be used.

Table 1-28 Programs 303~315 *(continued)*

Button	Sequence	Value(s)	Summary
315-04	Receive PAD FB05, n, Hold, Hold	n = 1. None 2. Plus 6 dB 3. Plus 3 dB 4. Zero dB (default) 5. Minus 3 dB 6. Minus 6 dB 7. Minus 9 dB 8. Minus 12 dB 9. Minus 15 dB	Select the Receive PAD values.
315-05	Send Pad FB04, n, Hold	n = 1. None 2. Plus 6 dB 3. Plus 3 dB 4. Zero dB (default) 5. Minus 3 dB 6. Minus 6 dB 7. Minus 9 dB 8. Minus 12 dB 9. Minus 15 dB	Select the Send PAD values.

Table 1-29 Programs 316~317

Button	Sequence	Value(s)	Summary
316	Shared D Channel 316, Hold		The PRI Interface can be extended to include an additional PRI card to expand the total number of channels to 47 on a Channel Group. This second PRI may optionally offer a backup D channel.
316-00	Channel Group n, Hold	n = 1~32 (CTX100) 1~48 (CTX670 Basic) 1~128 (CTX670 Exp.)	Channel Group Number.
316-01	Equipment Number FB01, xxyyzz, Hold	xx = yy = zz = xx = Cabinet 01, yy = 03, 05, or 07 and zz = Channel 01 is always used to assign RPTU parameters or xx = Cabinet 02~10, yy = 01, 03, or 05 and zz = Channel 01 is always used to assign RPTU parameters	Enter the ISDN RPTU equipment number as xxyyzz: Example: If the RPTU is installed in cabinet shelf 5, slot 3, enter 050301. Cabinet numbers: CTX100: Select 01 for Base and Expansion cabinet. CTX670: Select 01 for Base and 02~07 respectively for each Expansion cabinet. Slot numbers: CTX100: Select 01~04 for Base slots and 05~08 for Expansion slots. CTX670: Select 01~08 for Base slots and 01~10 for Expansion slots..
316-02	Trunk ID FB02, n, Hold	n = 0~126 (default = 1)	An identifier must be used as part of the addressing to communicate with the PSTN which channel on which link is used the given call. This identifier is assigned by the connected PSTN.
316-03	D Channel Provided FB03, n, Hold	n = 1. D-Channel 2. No D-Channel (default)	If a backup D Channel is to be used, it needs to be enabled.
316-04	Backup D Channel Position FB04, n, Hold, Hold	n = 1~128 (default = 24)	Channel Group Number.
317	ISDN BRI Trunk 317, Hold		The following program enables set up for ISDN related system settings.
317-00	Channel Group n, Hold	n = 1~32 (CTX100) 1~48 (CTX670 Basic) 1~128 (CTX670 Exp.)	Enter the BRI channel Group Number.

Table 1-29 Programs 316~317 *(continued)*

Button	Sequence	Value(s)	Summary
317-01	Equipment Number FB01, xxyyzz, Hold	xx = CTX670 yy = Cabinet (01~07) zz = Slot (01~10) Circuit (01~08 or 01~24) or CTX100 Cabinet (01) Slot (01~08) Circuit (01~04)	Enter the equipment number xxyyzz to which the ISDN BRI Trunk is to be assigned. Example: If the RBUU is installed in cabinet shelf 5, slot 3, enter 050301 for circuit 1. Cabinet numbers: • CTX100 ñ Select 01 for Base and Expansion cabinet. • CTX670 ñ Select 01 for Base and 02~07 respectively for each Expansion cabinet. Slot numbers: • CTX100 ñ Select 01~04 for Base slots and 05~08 for Expansion slots. • CTX670 ñ Select 01~08 for Base slots and 01~10 for Expansion slots.
317-02	Protocol FB02, n, Hold	n = 1. National ISDN 2. ETSI 3. TTC 4. National ISDN Nortel	Select the ISDN protocol. Only Bearer capabilities specified by the protocol can be entered in this field. The Initial value for ISDN Protocol corresponds to information set in the hardware level. National ISDN = North America, ETSI = England and TTC = Japan.
317-03	ILG FB03, n, Hold	n = 0~32 (CTX100) 0~50 (CTX670 Basic) 0~128 (CTX670 Exp.)	ILG assignments must be made for basic ISDNs to process the calls being received.
317-04	OLG FB04, n, Hold	n = 0~32 (CTX100) 0~50 (CTX670 Basic) 0~128 (CTX670 Exp.)	OLG assignments must be made for basic ISDNs to process the calls being originated.
317-05	Connection Format FB05, n, Hold	n = 1. Point to Point 2. Point to Multi Point	Identify connection format with the PSTN is 1- Point-to-Point or 2- Point-to-Multipoint.
317-06	Bearer Svc - Speech FB06, n, Hold	n = 1. Enable (default) 2. Disable	Enable speech capability.
317-07	Bearer Svc - 3.1 KHz Audio FB07, n, Hold	n = 1. Enable (default) 2. Disable	Enable 3.1 KHz audio capability.
317-08	Bearer Svc - 7 KHz Audio FB08, n, Hold	n = 1. Enable 2. **Disable** (default)	Enable 7 KHz audio capability.
317-09	Bearer Svc - Unrestricted 64K FB09, n, Hold	n = 1. **Enable** (default) 2. Disable	Enable one of the unrestricted capabilities.
317-10	Bearer Svc - Unrestricted 56K FB10, n, Hold	n = 1. **Enable** 2. Disable (default)	
317-11	Bearer Svc - Unrestricted 2x64K FB11, n, Hold	n = 1. **Enable** 2. Disable (default)	
317-12	Outgoing B Ch Select FB12, n, Hold	n = 1. Explicit 2. **Preferred** (default) 3. Any Channel	Select originating B Channel method. • Explicit ñ Channel is indicated, and no alternative is acceptable. • Preferred ñ (default) Channel is indicated, and any alternative is acceptable. • Any Channel ñ Channel is indicated, and any channel is acceptable.

Table 1-29 Programs 316~317 *(continued)*

Button	Sequence	Value(s)	Summary
317-13	B Ch Selection FB13, n, Hold	n = 1. Forward Cyclic 2. Backward Cyclic (default) 3. Forward Terminal 4. **Backward Terminal**	Choose Idle B Channel selection method. • Select Forward Cyclic (from lowest number to highest number of B-channel). • Select Backward Cyclic (from highest number to lowest number of B-channel). • Select Forward Terminal for the lowest numbered B-channel. Select Backward Terminal for the oldest number B-channel. (The High-High B-channel selection)
317-14	Initialize Type FB14, n, Hold	n = 1. User Entry Of SPID Auto SPID ON 2. User Entry Of SPID Auto SPID OFF 3. Auto SPID 4. **None** (default)	Enter the Service Profile Identifier (SPID) type of initialization.
317-15	Initialization Display FB15, n, Hold	n = Up to 4 digits (default = User)	Enter the text to be displayed for SPID Initialization.
317-16	SPID #1 FB16, n, Hold	n = Up to 20 digits	Enter the SPID value. These fields are required if you selected National ISDN in Protocol. When no data is entered, any previously entered information is overwritten.
317-17	SPID #2 FB17, n, Hold	n = Up to 20 digits	
317-18	T-Wait Timer FB18, n, Hold	n = 1. Enable 2. **Disable** (default)	Enable the T-Wait Timer. This field is needed if you selected National ISDN in Protocol above. This timer, used along with the SPID, assigns random initializing SPID times to prevent BRI interfaces from re-initialize at the same time after a reset or power outage.
317-19	Voice Calls FB19, n, Hold	n = 1. One 2. **Two** (default)	Select the number of simultaneous voice (speech) calls that can exist at the same time on this interface.
317-20	Trunk Subscriber 1 FB20, n, Hold	n = Up to 10 digits	Enter the telephone number for subscriber 1. Telephone number should be consistent with D channel data. If no data is entered in this field any previously programmed information is lost.
317-21	Trunk Subscriber 2 FB21, n, Hold, Hold	n = Up to 10 digits	Enter the telephone number for subscriber number 2. If no data is entered in this field any previously programmed information is lost.

Table 1-30 Bearer Capability Table

Bearer Services			Bellcore National ISDN	ETSI	TTC
Circuit Mode	Speech		X	X	X
	3.1 KHz		X	X	X
	7 KHz			X	X
	Unrestricted Digital Information	64 Kbps	X	X	X
		Rate adaptation from 56 Kbps	X		
		2x64 Kbps		X	X

Table 1-31 Programs 318~320

Button	Sequence	Value(s)	Summary
318	DID Intercept Assignment 318, Hold		This command assigns the DID Routing table when DID numbers are undefined or not received.
318-00	ILG Number n, Hold	n = 1~32 (CTX100) 1~50 (CTX670 Basic) 1~128 (CTX670 Exp.)	Enter ILG number.
318-01	Type FB01, n, Hold	n = 1. **No DID** 2. Not Determined	Select Routing Type.
318-02	MOH Source FB02, n, Hold	n = 1. Quiet Tone 2. **External 1** (default) 3. External 2 4. External 3 5. External 4 6. External 5 7. External 6 8. External 7 9. External 8 10. External 9 11. External 10 12. External 11 13. External 12 14. External 13 15. External 14 16. External 15	Select Music On Hold
318-03	GCO Destination FB03, n, Hold	0~32 (CTX100) 0~50 (CTX670 Basic) 0~128 (CTX670 Exp.) (default = 0)	GCO Key Group number.
318-04	Pooled Line Group FB04, n, Hold	0~32 (CTX100) 0~50 (CTX670 Basic) 0~128 (CTX670 Exp.) (default = 0)	POOL Line Key Group Number.
318-05~07	Audio Day1/Day2/ Night Dst Type FB05~FB07, n, Spkr	n = 1. **No Data** (default) 2. Dialing Digits 3. DISA 4. Built-in modem 5. Night Bell	Select the Audio/Speech call Day1 destination type. • No Data ñ no destination will ring when the line rings into the system. • Dialing Digits ñ assigns the line to ring the directory number or access code defined in the ìDestination Digitsî assignment • DISA ñ assigns the line to ring in as a DISA call. DISA dial tone will be returned to the caller. • Modem ñ assigns the line to ring the remote maintenance modem on the CTX processor. Used to call into the system with a CTX WinAdmin PC and modem. • Night Bell ñ Assigns the line to cause the night relay to pulse (one-sec.close/3-sec.open)
	Audio Day1/Day2/ Night Dst DN n1, Hold	n1 = Up to 32 digits	Enter the Destination Directory Number. Destination DN is only required if the destination type is ìDialing Digitsî

Table 1-31 Programs 318~320 *(continued)*

Button	Sequence	Value(s)	Summary
318-08~10	Data Day1/Day2/ Night Dst Type FB08~FB10, n, Spkr	n = 1. **No Data** (default) 2. Dialing Digits 3. DISA 4. Built-in modem 5. Night Bell	Select the data call Day1 destination type • No Data (default), Dialing Digits, DISA, Built-in Modem or Night Bell • No Data ñ no destination will ring when the line rings into the system. • Dialing Digits ñ assigns the line to ring the directory number or access code defined in the ìDestination Digitsî assignment • DISA ñ assigns the line to ring in as a DISA call. DISA dial tone will be returned to the caller. • Modem ñ assigns the line to ring the remote maintenance modem on the CTX processor. Used to call into the system with a CTX WinAdmin PC and modem. • Night Bell ñ Assigns the line to cause the night relay to pulse (one-sec.close/3-sec.open)
	Data Day1/Day2/ Night Dst DN n1, Hold	n1 = Up to 32 digits	Enter the Destination Directory Number. Destination DN is only required if the destination type is ìDialing Digitsî
318-11	VMID for DNIS No. B11, n, Hold	n = Up to 10 digits	Enter the VM mail box number which should answer calls for this DID/ DNIS number. This code is only sent if using SMDI VM integration in Program 580, 01. This code will be replaced, after voice mail answers, by the DTMF code set in Program 318, 15 DID/DNIS DTMF VMID code - if programmed; therefore, if using Program 318, 15 code, this VMID code is not necessary. This mail box number will be sent to voice mail on a DID/DNIS call that rings directly to voice mail; and, on a direct DID/DNIS call to a DN that forwards to voice mail before it is answered by the DN. If a DID/DNIS call is answered by a station and then transferred to a DN that forwards to voice mail, this mail box number of the DID/DNIS number, or the forwarding DN's mail box number will be sent to voice mail per Program 579, 01. If this VMID code is not set, direct DID/DNIS calls will go to the VM general greeting and DID/DNIS calls that forward from a DN to VM will go to the DN's VMID mail box. This Voice Mail box number is added to SMDI packets of direct and forwarded DID\DNIS calls to voice mail as explained above.
318-12	DNIS Name FB12, n, Hold, Hold	n = Up to 16 digits	Enter DNIS Name. DNIS names can be assigned from the CTX WinAdmin (not from programming phones).
318-15	DID/DNIS No. DTMF VMID FB15, n, Hold, Hold	n = Digits 0~9, * and #. For a pause enter Px, where x=0~9 (seconds), up to 10 characters (default = no value).	Enter the VM mail box number which should answer calls for this DID/ DNIS number. This mail box number will be sent to voice mail on a DID/DNIS call that rings directly to voice mail; and, on a direct DID/DNIS call to a DN that forwards to voice mail before it is answered by the DN. If a DID/DNIS call is answered by a station and then transferred to a DN that forwards to voice mail, the mail box number of the DID/DNIS number or the forwarding DN's mail box number will be sent to voice mail per Program 579, 01. If this VMID code is not set, direct DID/DNIS calls will go to the VM general greeting and DID/DNIS calls that forward from a DN to VM will go to the DN's VMID mail box. This voice mail box number is sent to the VM port, as DTMF digits, after the VM port answers a DID/DNIS call as explained above. These digits are sent to the VM port if the CTX is set for SMDI or DTMF integration in Program 580, 01.

Table 1-31 Programs 318~320 *(continued)*

Button	Sequence	Value(s)	Summary
319	Intercept Treatment 319, Hold		This command assigns Intercept positions for Strata CTX Day/Night schedules. Intercept positions are used when the destination of a trunk line call is not determined with DID or DIT
319-00	Tenant Number	n = Enter 1~8	Select the Tenant number for which the Intercept Destinations will be configured.
01 02 03	Day1 Destination Day2 Destination Night Destination FB01~FB03, n, Spkr, n1, Hold, Hold	n = 1. **None** (default) 2. Dialing Digits 3. Night Bell n1 = Up to 32 digits	Select Destination Type for each. Enter Destination for each. • To intercept with a DN use 0~99999 • To intercept with a Network DN use 1~32 • To intercept with Dial Digits Paging 1~16
320	B Channel 320, Hold		PRI interfaces are purchased on per interface and channel basis. The B channel assignments allow for a flexible activation of channels to match the subscribed services from the Public Service Telephone Network.This command allows you to enable or disable each B channel on selected RPTU PCBs.
320-00	RPTU Equipment No. xxyyzz, Hold	xx = xx = cabinet 01 yy = yy = 03, 05, or 07 zz = zz = Channel 01 is always used to assign RPTU parameters or xx = cabinet 02~10 yy = 01, 03, or 05 zz = Channel 01 is always used to assign RPTU parameters	Enter the ISDN RPTU equipment number. Equipment numbers are required when assigning ISDN RPTU parameters in the system. It can also be used to display the equipment location of existing RPTU PCBs. Example: If the RPTU is installed in cabinet shelf 5, slot 3, enter 050301.
320-01~23	B Channel FB01~FB23, n, Hold, Hold	n = 1. **Enable** (default) 2. Disable	Assign each B channel as enabled or disabled for each channel on the interface. The assignments must match exactly to the subscription from the PSTN.

Table 1-32 B Channel Defaults

B Channel Position Span Interface Speed	01~15	16	17~23	24	25~31
1.5M (T1)	ON	ON	ON	OFF (Dch Pos)	
2.0M (E1)	ON	OFF (Dch Pos)	ON	ON	ON

Table 1-33 Programs 321~324

Button	Sequence	Value(s)	Summary
321	Calling Number Identification 321, Hold		The Calling Number ID is what is defined as the user supplied Calling Number. This number may be optionally screened by the PSTN to ensure only calls from valid billable telephone numbers are allowed to originate calls.
321-00	OLG Number n, Hold	n = 1~32 (CTX100) 1~50 (CTX670 Basic) 1~128 (CTX670 Exp.)	Enter the OLG Number.
321-01	Default Number FB01, n, Hold	n = Up to 10 digits	Enter the telephone number to use by default when originating a call. This is the number that the PSTN has registered for billing purposes.

Table 1-33 Programs 321~324 *(continued)*

Button	Sequence	Value(s)	Summary
321-02	Number Prefix FB02, n, Hold	n = Up to 10 digits	Enter the prefix telephone number for which a DID number will be appended to create a User Identified telephone number. This number may or may not be a billed number, but is used for Caller ID at the distant end and could be used for returning your call.
321-03	Number Verification FB03, n, Hold	n = 1. Enable 2. **Disable**	Specify whether the number provided should be screened by the PSTN before the call is to proceed.
321-04	Default Number 2 FB04, n, Hold, Hold	n = Up to 10 digits	Enter the second telephone number to use by default when originating a call. This is the number that the PSTN has registered for billing purposes. The second number is for BRI only
322	CNIS Presentation And Special Number Assignment 322, Hold		When calls are sent to the PSTN with Calling Number Identification Service (CNIS), the CTX can supply special CNIS information as part of the Setup Message. This program may be used for sending a unique number based on the source directing the call to the Strata CTX PRI.
322-00	OLG Number n, Hold	n = 1~32 (CTX100) 1~50 (CTX670 Basic) 1~128 (CTX670 Exp.)	OLG Number.
322-01	Source Type FB01, n, Hold	n = 1. Primary DN (0~99999) 2. Group CO (1~128) 3. Pooled Line Group (1~128)	Specify the type of circuit used for outgoing calls: 1- PDN; 2- GCO; 3- Pooled Line.
322-02	Source Number FB02, n, Hold	n = Up to 5 digits GCO and POOL: 1~32 (CTX100) 1~50 (CTX670 Basic) 1~128 (CTX670 Exp.)	Specify the number of the source type selected (PDN, GCO or Pooled Line). **Note** Entries for this field depend on the Destination Type chosen. There are no default values for this field (default = no value). • PDN: 0~99999 • GCO: 1~128 • POOL: 1~128
322-03	Special Number Assignments FB03, n, Hold, Hold	n = Up to 7 digits	Specify the number to be sent when calling out from the source (max. seven digits). This number is appended to Program 321 FB02. **Note** Destination Type and Destination must be entered before a DID number can be assigned.
323	CBC Service 323, Hold		To accomplish CBC services, each facility needs to be defined, its related Line Group assigned and minimum and maximum values for the services provided. These service parameters may be set for three different time zones, thus allowing fewer or more services of different types at different times of the day.
323-00	Channel Group n, Hold	n = 1~32 (CTX100) 1~48 (CTX670 Basic) 1~128 (CTX670 Exp.)	Enter the Channel Group Number.
323-01	Index FB01, n, Hold	n = 0~32 (CTX100) 0~48 (CTX670 Basic) 0~128 (CTX670 Exp.)	Enter the CBC Service Index, or click one of the following buttons: • List ñ view a summary list of programmed Trunks. • Create ñ Assign a new Trunk with default settings.
323-02	Type of Service FB02, n, Hold	n = 1. No Data (default) 2. POTS 3. FX 4. Tie line (Enbloc) 5. Tie line (Cut throuogh) 6. Intra LATA Out WATS 7. Banded Out WATS 8. Inter LATA Out WATS 9. INWATS	Select the CBC Service Type. **Note** To delete CBC, set this field to **`1: No Data`**.
323-03	Facility Code FB03, n, Hold	n = 00~31	Enter the supplied Facility code value from the PSTN. If no data is entered in this field, any previously entered data is deleted.

Table 1-33 Programs 321~324 *(continued)*

Button	Sequence	Value(s)	Summary
323-04	Service Parameter FB04, n, Hold	n = Up to 5 digits	Enter the Service parameters supplied from PSTN. If no data is entered in this field, any previously entered data is deleted.
323-05	Network ID FB05, n, Hold	n = 3~4 digits	Enter the Network ID code supplied from PSTN (this field is required if you selected ìInter LATA Out WATSî Type of Service. If no data is entered in this field, any previously entered data is deleted.
323-06	ILG FB06, n, Hold	n = 0~32 (CTX100) 0~50 (CTX670 Basic) 0~128 (CTX670 Exp.) (default = 0)	Specify the ILG for this facility.
323-07	OLG FB07, n, Hold	n = 0~32 (CTX100) 0~50 (CTX670 Basic) 0~128 (CTX670 Exp.) (default = 0)	Specify the OLG for this facility.
323-08	Min Calls Zone 1 FB08, n, Hold	n = 0~47 (default = 0)	Select the minimum number of Bch in Time Zone 1.
323-09	Max Calls Zone 1 FB09, n, Hold	n = 0~47 (default = 47)	Select the maximum number of Bch in Time Zone 1.
323-10	Min Calls Zone 2 FB10, n, Hold	n = 0~47 (default = 0)	Select the minimum number of Bch in Time Zone 2.
323-11	Max Calls Zone 2 FB11, n, Hold	n = 0~47 (default = 0)	Select the maximum number of Bch in Time Zone 2.
323-12	Min Calls Zone 3 FB12, n, Hold	n = 0~47 (default = 0)	Select the minimum number of Bch in Time Zone 3.
323-13	Max Calls Zone 3 FB13, n, Hold, Hold	n = 0~47 (default = 0)	Select the maximum number of Bch in Time Zone 3.
324	CBC Time Zones 324, Hold		This command assigns Call-by-Call Time Zone.
324-00	Channel Group n, Hold	n = 1~32 (CTX100) 1~48 (CTX670 Basic) 1~128 (CTX670 Exp.)	Channel Group Number
324-01	Start Zone 1 FB01, hhmm, Hold	hh = hour (00~23) mm = minute (00~59) 9999 to delete	Enter the Time Zone Starting Time (hhmm).
324-02	Start Zone 2 FB02, hhmm, Hold		
324-03	Start Zone 3 FB03, hhmm, Hold, Hold		

400 Series Programs

Table 1-34 Programs 400~404

Button	Sequence	Value(s)	Summary
400	Emergency Call Destination Assignment 400, Hold		This command assigns Emergency Call destinations to Emergency Call groups. There is one group for each Day mode (Day1, Day2 and Night).
400-01	Day/Night Mode FB01, n, Hold	n = 1. Day 1 2. Day 2 3. Night	This is a display only field. It is controlled by the Strata CTX system.
400-02	Called Number Index FB02, n, Hold	n = 1~4	This is a display only field. It is controlled by the Strata CTX system.
400-03	Emergency Call Destination FB03, n, Hold	n = Up to 32 digits	Enter the destination DN for the emergency call.
400-04	Action FB04, n, Hold, Hold	n = 1. Modify (default) 2. Insert	Choose whether you are replacing an existing Emergency Number Index or inserting one in the list. If inserting, the new entry will assume the specified index. The remaining indices will be increased by one and the last one, 4, will be deleted.
404	Attendant Group Assignment 404, Hold		This program establishes Attendant Groups, distribution methods and alternate destinations.
404-00	Attendant Group Member n, Hold	n = 1 (CTX100 & CTX670 Basic) 1~8 (CTX670 Exp.)	Select the Attendant Group Member Number.
404-01	Call Distribution Method FB01, n, Hold	n = 1. **Most Idle First** (default) 2. Next Available First 3. Broadcast	Select the Call Distribution Method for attendant console.
404-02	Alternate Attendant Destination FB02, n, Hold	n = Up to 32 digits	Enter the Alternate Attendant Destination (DN, Network DN or Group Pilot Number). If no data is entered in this field, any previous entries are overwritten.
404-03	Overflow Time FB03, n, Hold	n = 0~180 (default = 30)	Select the Attendant Overflow Time in minutes.
404-04	Group Overflow Destination FB04, n, Hold	n = Up to 32 digits	Enter the overflow destination for this attendant group. If no data is entered in this field, any previous entries are overwritten.
404-05	VMID Code SMDI FB05, n, Hold	n = Up to 10 digits	Enter the Attendantís Voice Mail ID code. If no data is entered in this field, any previous entries are overwritten.
404-07~16	ICI1~ ICI10 FB07~FB16, n, Spkr, n, Spkr, n, Spkr, n, Hold, Hold	n = 0~32 (CTX100) 0~50 (CTX670 Basic) 0~128 (CTX670 Exp.) (default = 0)	• For 07 ICI1~16 ICI10, select ILG Assignments for ICI Groups.ILG1 • Assign the 1st ILG to ICI Groups 1~10. • Assign the 2nd ILG to ICI Groups 1~10. • Assign the 3rd ILG to ICI Groups 1~10. • Assign the 4th ILG to ICI Groups 1~10. **Note** Each ILG can only be assigned once in any of the ICI Groups.

500 Series Programs

Table 1-35 Programs 500~577

Button	Sequence	Value(s)	Summary
500	System Call Forward Assignment 500, Hold		This assignment is used to configure up to 32 system call forward patterns. Station DNs are assigned to these patterns in the station COS assignments. **Note** The Administrator programs the condition of transfer by setting Call Type, Period and Telephone Status. Destinations 1 and 2 should be programmed after transfer conditions are set.
500-00	SCF Number n, Hold	n = 1~4 (CTX100) 1~10 (CTX670 Basic) 1~32 (CTX670 Exp.)	Select the SCF pattern number to configure.
500-01	Call Type FB01, n, Hold	n = 1. CO Loop Ground 2. DID 3. Tie 4. Ring Transfer 5. Internal	Select the type of call that should forward in this pattern. **Note** Each 500-01 call type must be the same telephone status. Also, all calls must be the same Call Forward type.
500-02	Period FB02, n, Hold	n = 1. Day 2. Day2 3. Night	Select the system time period in which this SCF pattern should operate.
500-03	Telephone Status FB03, n, Hold	n = 1. Busy 2. Off No Answer 3. Busy No Answer 4. DND	Select the telephone DN status that should cause this SCF pattern to operate. **Note** Each 500-01 call type must be the same telephone status. Also, all calls must be the same Call Forward type.
500-04	Destination 1 FB04, n, Hold, Hold	n = Up to 32 digits	Select the first destination to which the call should forward.
501	System Speed Dial Assignment 501, Hold		System Speed Dial consists of up to 800 pre-programmed numbers each containing up to 32 digits. If the number being entered exceeds the 32 digits, the next speed dial location will automatically be appended to create longer numbers. One other speed dial location can be nested within the number for dialing a common routine with the number (see ì516 Station Speed Dialî on page 5-31 for more information about nesting).
501-00	Speed Dial Bin n, Hold	n = 000~799	Enter the speed dial bin location.
501-01	Number FB01, n, Hold	n = Up to 32 digits, 0~9, *, # and Pauses	This is the dialable number stored in the speed dial bin. **Note** To enter pauses enter Px, where x equals 1~9 (seconds), which is the length of the pause.
501-02	Name FB02, n, Hold, Hold	n = Up to 8 digits	This is the Name that appears on Telephone LCD dial directories. **Note** This feature is available in CTX WinAdmin and Strata DKT30xxSD only.
502	Terminal Paging Group Assignment 502, Hold		Assigns Primary DNs to Paging Group(s).
502-00	Primary DN n, Hold	n = Up to 5 digits	Enter the Primary DN of the station to be assigned to Paging Groups. A station may belong to more than one paging group. **Note** You can have upto 72 paging groups in the Strata CTX100 and upto 120 paging groups in the Strata CTX670. Any software release before R1.01, M19 supports only 32 paging groups for all systems.
502-01~16	PG01~PG16 FB01~FB16, n, Hold	n = 1. On 2. **Off** (default)	Activate the Paging Group(s) this station belongs too. The number of DNs that can be assigned are 1~4 (CTX100), 1~8 (CTX670 Basic), 1~16 (CTX670 Exp.)

Table 1-35 Programs 500~577 *(continued)*

Button	Sequence	Value(s)	Summary
502-17	All Page Group FB17, n, Hold	n = 1. On 2. **Off** (default)	Enter this station in all Paging Groups.
502-18	All Emergency Page Group FB18, n, Hold, Hold	n = 1. On 2. **Off** (default)	Enter this station in all Emergency Paging Groups.
503	Paging Devices Group Assignment 503, Hold		Assigns BIOU Page Zone Relays to Page Groups.
503-00	Zone Relay Number n, Hold	n = 1~8 • BIOU1 = 1~4 • BIOU2 = 5~8	Select the BIOU Page Zone relay that should be assigned to the Page Groups below. This relay activates whenever the selected Page Group is paged. • BIOU1 = Zone Relays 1~4. • BIOU2 = Zone Relays 5~8.
503-01~16	PG01~PG16 FB01~FB16, n, Hold	n = 1. On 2. Off (default)	Turn on if the selected BIOU Page Zone Relay should activate with this Page Group.
503-17	All Page Group FB17, n, Hold	n = 1. On 2. Off (default)	
503-18	All Emergency Page Group FB18, n, Hold	n = 1. On 2. Off (default)	
503-19	BGM Mute Relay FB19, n, Hold, Hold	n = 0~8 (default = 0) • BIOU1 = 1~4 • BIOU2 = 5~8	Assign BIOU generic relay as the BGM mute relay. This relay activates whenever the external page is in use • BIOU1 = Generic Relays 1~4. • BIOU2 = Generic Relays 5~8. **Note** The CTX100 ACTU built-in relay is programmed as relay 5. For this relay operation,BIOU2 is installed, as default, in a virtual equipment position - Cabinet 2, Slot 5, PCB code 20, in Program 100. To install an actual BIOU2 and disable the ACTU built-in relay, use the programming telephone to remove the virtual BIOU2 and then install the actual BIOU2 in Cabinet 01 Slot 01~08 in the normal manner.
504	System Call Forward Operation Status 504, Hold		This command assigns System Call Forward Type for the pattern.
504-00	SCF Number n, Hold	n = 1~4 (CTX100) 1~10 (CTX670 Basic) 1~32 (CTX670 Exp.)	Select the SCF pattern number to configure.
504-01	Telephone Status FB01, n, Hold, Hold	n = 1. **No Data** (default) 2. Busy 3. No Ans 4. Busy No Ans 5. DND	Select the status or state in which the telephone should be for this system call forward pattern to activate. **Notes** • Each 500-01 call type must be the same telephone status. Also, all calls must be the same Call Forward type. • Telephone status must be the same as telephone status selected in 500-03.
506	Verified Account Codes 506, Hold		This program adds or deletes entries in the DR Table associated with the DRL.
506-00	Account Code n, Hold	n = Up to 15 digits	Enter a valid accounting code that the user will be expected to dial. Digits 0~9 can be used. **Note** The Account Code is set to the same digit length as the Verified Digit Length in Program 570 above.

Table 1-35 Programs 500~577 *(continued)*

Button	Sequence	Value(s)	Summary
506-01	Verified Flag FB01, n, Hold	n = 1. Set 2. **No Set** (default)	The Account Code Flag determines whether the number entered is to be used as a verified account code or not. Some applications may allow users to dial an accounting code which changes the restriction level for the call allowing it to be placed. **Note** To delete a Verified Account Code set this field to No Set.
506-02	DRL FB02, n, Hold	n = 0~16 (default = 0)	The DRL assigned to an accounting code allows users to override their stations assigned DRL enabling a call to be placed.
506-03	FRL FB03, n, Hold	n = 0~16 (default = 0)	The FRL assigned to an accounting code enables users to override the station assigned FRL.
506-04	Network COS FB04, n, Hold, Hold	n = 1~32 (default = 1)	Assign the Network COS to be used by this accounting code.
507	Door Phone Assignment 507, Hold		This assignment configures Door Phone Control Boxes (DDCBs) and Door Phones (MDFBs). DDCBs can be connected to ADKU, PDKU and/or BDKU interface PCBs. Up to three MDFBs can be connected to one DDCB. A Door lock control relay may be assigned to the B output of the DDCB in place of a MDFB door phone.
507-00	Door Phone Number n, Hold	n = 1~6 (CTX100) 1~9 (CTX670 Basic) 1~24 (CTX670 Exp.)	Enter the door phone number. Door phone numbering for both CTX100 and CTX670 is as follows: • DDCB 1 provides door phone numbers 1~3, 2 can be a door phone or door lock. • DDCB 2 provides door phone numbers 4~6, 5 can be a door phone or door lock. Door phone numbering for CTX670 only is as follows: • DDCB 3 provides door phone numbers 7~9, 8 can be a door phone or door lock. • DDCB 4 provides door phones 10~12, 11can be a door phone or door lock. • DDCB 5 provides door phones 13~15, 14 can be a door phone or door lock. • DDCB 6 provides door phones 16~18, 17 can be a door phone or door lock. • DDCB 7 provides door phones 19~21, 20 can be a door phone or door lock. • DDCB 8 provides door phones 22~24, 23 can be a door phone or door lock. DDCBs are numbered by the system automatically by DDCB Equipment (Shelf/Slot/Circuit). DDCB1 is assigned to the lowest DDCB Equipment and DDCB2 to the next lowest, etc. If DDCB Circuit B is set to Door Lock, a Door Phone cannot be set.

Table 1-35 Programs 500~577 *(continued)*

Button	Sequence	Value(s)	Summary
507-01	DDCB Equipment No. FB01, xxyyzz, Hold	xx = Cabinet 01 (CTX100), 01~02 (CTX670 Basic), 01~07 (CTX670 Exp.) yy = Slot 01~8 (CTX100), 01~10 (CTX670) zz = Circuit 01~16	Enter the DDCB equipment number to which the Door phone should be assigned. Example: If the DDCB interface should be connected to a PDKU or BDKU/BDKS in cabinet shelf 5, slot 2, circuit 3, enter 050203. **Notes** • This is the cabinet, slot, and circuit number of the BDKU/BDKS or PDKU interface PCB to which the DDCB is to be connected. • If a PDN is assigned to the DDCB equipment number it must be deleted, using Program 201, before attempting to assign the DDCB console. Cabinet numbers: • CTX100 ñ Select 01 for Base and Expansion cabinet. • CTX670 ñ Select 01 for Base and 02~07 respectively for each Expansion cabinet. Slot numbers: • CTX100 ñ Select 01~04 for Base slots and 05~08 for Expansion slots. • CTX670 ñ Select 01~08 for Base slots and 01~10 for Expansion slots.
507-02	Tenant Number FB02, n, Hold	n = 1~2 (CTX100) 1~8 (CTX670) (default = 1)	Select the Tenant Number for which the door phone should ring over external page in the system Night mode.
507-03	Connection Status	n = 1. Enable 2. **Disable** (default)	Check the box if the door phone is physically connected to the DDCB.
507-04	Ring Duration FB04, n, Hold	n = 3~30 (default = 9)	Select the time that the door phone should ring destination devices when the door phone button is pressed. The ring time can be 3 to 30 seconds set in 3 second intervals - each 3 second interval provides one ring to the destination. Destination devices include selected DNs and Page groups.
507-05	LCD Name Display FB05, n, Hold	n = 1~16	Enter the Door Phone name that should display on LCD telephones when the door phone rings the telephones; or, when the telephone calls the door phone.
507-06	Day1 Destination FB06, n, Spkr, n1, Hold	n = 1. **None** (default) 2. DN 3. Paging Group 1~4 (CTX100) 1~8 (CTX670 Basic) 1~16 (CTX670 Exp.) n1 = Up to 5 digits	1. Select Destination Type ñ Select the type of destination that should ring when the door phone button is pressed during the system Day1, Day2 or Night mode. 2. Enter the Destination Number ñ If the ring destination type is a PDN or PhDN, enter the directory number. If the ring destination type is Page, enter the Page Group number.
507-07	Day2 Destination FB07, n, Spkr, n1, Hold	n = 1. **None** (default) 2. DN 3. Paging Group 1~4 (CTX100) 1~8 (CTX670 Basic) 1~16 (CTX670 Exp.) n1 = Up to 5 digits	1. Select Destination Type ñ Select the type of destination that should ring when the door phone button is pressed during the system Day1, Day2 or Night mode. 2. Enter the Destination Number ñ If the ring destination type is a PDN or PhDN, enter the directory number. If the ring destination type is Page, enter the Page Group number.
507-08	Night Destination FB08, n, Spkr, n1, Hold, Hold	n = 1. **None** (default) 2. DN 3. Paging Group 1~4 (CTX100) 1~8 (CTX670 Basic) 1~16 (CTX670 Exp.) n1 = Up to 5 digits	1. Select Destination Type ñ Select the type of destination that should ring when the door phone button is pressed during the system Day1, Day2 or Night mode. 2. Enter the Destination Number ñ If the ring destination type is a PDN or PhDN, enter the directory number. If the ring destination type is Page, enter the Page Group number.

Table 1-35 Programs 500~577 *(continued)*

Button	Sequence	Value(s)	Summary
508	Door Lock Control Assignment 508, Hold		This assignment is used to configure up to 10 door lock control relays. The contacts of these relays are used to control electrical door locks. One door lock relay can be assigned to each of the eight Door Phone Control Boxes (DDCB, Port B) and/or one to each of the two BIOU PCBs (any one of the four control relays). **Note** If a door lock is assigned to a DDCB, the second jack (Port B) will provide the door lock relay contacts. This jack can not be used to connect an MDFB door phone.
508-00	Door Lock Number n, Hold	n = 1~4 (CTX100) 1~5 (CTX670 Basic) 1~10 (CTX670 Exp.)	Enter the door lock control number to configure.
508-01	Interface Type FB01, n, Hold	n = 1. **None** (default) 2. BIOU 3. DDCB	Enter the system Page Group number that should ring for the selected tenant when a door phone button is pressed during the system Night Mode.
508-02	BIOU Relay Number FB02, n, Hold	n = 0~8 (default = 0) • BIOU1 provides control relays 1~4 • BIOU2 provides control relays 5~8.	Assign BIOU control relay as a Door Lock Relay. This relay activates when the Door Lock button is pressed or a Door Lock access code is dialed. **Note** The CTX100 ACTU built-in relay is programmed as relay 5. For this relay operation BIOU2 is installed as default in a virtual equipment position Cabinet 2, Slot 5, PCB code 20, in Program 100. To install an actual BIOU2 and disable the ACTU built-in relay, use the programming telephone to remove the virtual BIOU2 and then install the actual BIOU2 in Cabinet 01/slot 01~08 in the normal manner. BIOU relay functions are assigned in ìProgram 515î on page 80. This field is required if you selected BIOU in *01 Interface Type* above.
508-03	DDCB Equipment No. FB03, n, Hold, Hold	n = Cabinet 01 (CTX100), 01~02 (CTX670 Basic), 01~07 (CTX670 Exp.) Slot 01~8 (CTX100), 01~10 (CTX670) Circuit 01~16	Enter the DDCB equipment number to which the Door Lock should be assigned. This is the cabinet, slot, and circuit number of the ADKU, BDKU/BDKS or PDKU interface PCB to which the the DDCB is to be connected. Enter data as XXYYZZ: XX=cabinet 01~07; YY=slot 01~10; ZZ=circuit 01~16 Example: If the DDCB interface should be connected to a ADKU, PDKU or BDKU/BDKS in cabinet shelf 5, slot 2, circuit 3, enter 050203. **Note** If a PDN is assigned to the DDCB equipment number it must be deleted, using PRG201, before attempting to assign the DDCB console. Cabinet numbers: • CTX100: Select 01 for Base and Expansion cabinet. • CTX670: Select 01 for Base and 02~07 respectively for each Expansion cabinet. Slot numbers: • CTX100: Select 01~04 for Base slots and 05~08 for Expansion slots. • CTX670: Select 01~08 for Base slots and 01~10 for Expansion slots.
509	DR Override by System Speed Dial 509, Hold		This command assigns the COS, DRL, FRL and QPL values used by DR Override by Speed Dial.
509-01	Override COS FB01, n, Hold	n = 1~32 (default =1)	Select the override COS value.
509-02	Override DRL FB02, n, Hold	n = 1~16 (default =1)	Select the override DRL value.
509-03	Override FRL FB03, n, Hold	n = 1~16 (default =1)	Select the override FRL value.

Table 1-35 Programs 500~577 *(continued)*

Button	Sequence	Value(s)	Summary
509-04	Override QPL FB04, n, Hold, Hold	n = 1~16 (default =1)	Select the override QPL value.
510	COS Override Assignment 509, Hold		Assigns Class of Service Overrides and their parameters (COS, FRL, DRL, QPL).
510-00	COS Override Index n, Hold	n = 1~16	Select the COS Override index.
510-01	COS Override Code FB01, n, Hold	n = Up to 8 digits	Select the COS Override Code as entered by users. If no data is entered in this field, any previously entered data is erased.
510-02	Set COS FB02, n, Hold	n = 1~32 (default = 1)	Select COS number for this override code.
510-03	Set DRL FB03, n, Hold	n = 1~16 (default = 1)	Select DRL number for this override code.
510-04	Set FRL FB04, n, Hold	n = 1~16 (default = 1)	Select FRL number for this override code.
510-05	Set QPL FB05, n, Hold	n = 1~16 (default = 1)	Select QPL number for this override code.
510-06	Set Network COS FB06, n, Hold, Hold	n = 1~32 (default = 1)	Apply this override code to Network COS index
512	SMDR for System Assignment 512, Hold		Assigns system-wide SMDR parameters.
512-01	Caller ID Field FB01, n, Hold	n = 1. Enable (default) 2. Disable	Include Caller ID records in SMDR.
512-02	B Record for Abandoned Call FB02, n, Hold	n = 1. Enable 2. Disable (default)	Generate B Record for an abandoned call.
512-03	ANI FB03, n, Hold	n = 1. Enable (default) 2. Disable	Include ANI in SMDR record.
512-04	Authorization Code FB04, n, Hold	n = 1. Enable 2. Disable (default)	Include authorization codes in SMDR records.
512-05	End-of-Record CR FB05, n, Hold, Hold	n = 1. Enable (default) 2. Disable	Include a Carriage Return (CR) at the end of an SMDR record.
513	SMDR for ILG Assignment 513, Hold		This program assigns SMDR parameters for ILGs.
513-00	ILG n, Hold	n = 1~32 (CTX100) 1~50 (CTX670 Basic) 1~128 (CTX670 Exp.)	Specify the ILG for which to set SMDR parameters.
513-01	Generate SMDR Records FB01, n, Hold	n = 1. Enable (default) 2. Disable	Enable to generate records for this ILG
513-02	DNIS Field Indication FB02, n, Hold	n = 1. Enable (default) 2. Disable	Check to include DNIS information in records for this ILG.
513-03	B Record for Incoming Call FB03, n, Hold	n = 1. Enable 2. Disable (default)	Enable B Record generation for incoming calls with or without incoming SMDR being enabled.

Table 1-35 Programs 500~577 *(continued)*

Button	Sequence	Value(s)	Summary
513-04	Abandoned Call Record Output FB04, n, Hold	n = 1. Enable 2. Disable (default)	Enable record generation for abandoned calls. Incoming SMDR must be turned on. Abandoned call records will be generated whether or not incoming SMDR has been set.
513-05	Display Transferred Call Records FB05, n, Hold, Hold	n = 1. Source (default) 2. Destination	Select whether to charge a transferred call to the source or destination party.
514	SMDR for OLG Assignment 514, Hold		This command assigns SMDR parameters for OLGs.
514-00	OLG n, Hold	n = 1~32 (CTX100) 1~50 (CTX670 Basic) 1~128 (CTX670 Exp.)	Specify the OLG for which to set SMDR parameters.
514-01	SMDR Record Display FB02, n, Hold	n = 1. Enable (default) 2. Disable	Enable SMDR Record Display.
514-02	Outgoing Records FB03, n, Hold, Hold	n = 1. Enable (default) 2. Disable	Enable to generate records for outgoing calls. SMDR Record Display must be on.
514-03	Outgoing Records FB03, n, Hold, Hold	n = 1. Source (default) 2. Destination	Enable to apply the SMDR record of a transferred call to its source or its destination.
515	View BIOU Control Relay Assignment 515, Hold		This assignment is used to view functions of the four control relays on each BIOU PCB set in Program 105 12 Night Relay and 18 Night Bell Relay; Program 508 Door Lock Control Assignment; and Program 503 19 BGM Mute Relay. The system allows up to two BIOU PCBs to provide a total of eight control relays. The control relays can be configured as an external BGM mute control, Night Bell control, Night Mode Control, and Door Lock Control. **Notes** • BIOU-1 relays are identified as Control Relays 1~4. • BIOU-2 relays are identified as Control Relays 5~8.
515-00	BIOU (1 or 2) n, Hold	n = 1 or 2	Enter the BOIU PCB number. **Note** BIOU 1 and BIOU 2 are assigned in Program 100 - Card Assignment.
515-01	BIOU Relay 1 or 5 FB01, n, Hold	n = 1. Not Use (default) 2. Ext Paging 3. Night Bell 4. Night Relay 5. Door Lock	View the function of BIOU1, control relay 1 or BIOU2, control relay 5: View the function of BIOU1, control relay 2 or BIOU2, control relay 6: View the function of BIOU1, control relay 3 or BIOU2, control relay 7: View the function of BIOU1, control relay 4 or BIOU2, control relay 8: • NOT USE ñ if the relay is not used. • PAGE MUTE ñ External BGM mute control activates during an external page (see ìProgram 503î on page 75). • NIGHT BELL ñ Night Bell control activates during the system Night Mode only when incoming CO lines ring (see ìProgram 102î on page 12). • NIGHT RELAY ñ Night Mode Control activates continuously during the system Night Mode (see ìProgram 105î on page 18). • DOOR LOCK ñ Door Lock Control activates when a telephone's Door Unlock button is pressed (see ìProgram 508î on page 78).
515-02	BIOU Relay 2 or 6 FB02, n, Hold		
515-03	BIOU Relay 3 or 7 FB03, n, Hold		
515-04	BIOU Relay 4 or 8 FB04, n, Hold, Hold		

Table 1-35 Programs 500~577 *(continued)*

Button	Sequence	Value(s)	Summary
516	Station Speed Dial 516, Hold		Up to 100 pre-programmed Speed Dial numbers (up to 32 digits each) can be assigned to each station. Speed Dial numbers are stored in ìBinsî and each station accesses the Speed Dial numbers by entering the Speed Dial Bin number from their respective stations. The following advanced Speed Dialing features are available in Strata CTX. • Speed Dial Bin Linking ñ Whenever a Speed Dial number exceeds the 32-digit Speed Dial Bin memory limitation, the digits exceeding the 32 digit limitation are automatically stored into the adjacent Speed Dial Bin. The entire string is activated by using the primary Speed Dial Bin number. **Note** Bin linking is automatic. Any previously programmed data in the ìadjacent Speed Dial Binî as described above is overwritten. Furthermore, if a number exceeding the maximum allowable dial digit length is overwritten with a new number which complies to the 32-digit restriction, the excess digits recorded in the next Bin (from the previous entry) is treated as a unique Speed Dial record. • Speed Dial Number Nesting ñ A Speed Dial number can be nested into another Speed Dial number. For example, if an international dialing prefix is used often, program the prefix in any Speed Dial Bin. Then in the another Speed Dial Bin, program the first Bin number + the number to dial. When the second Speed Dial Bin is activated, Strata CTX first retrieves and dials the international dialing prefix from the first Bin location, then adds the numbers to dial.
516-00	PDN n, Hold	n = Up to 5 digits	Select the PDN assigned the speed dial number.
516-01	Speed Dial Bin FB01, n, Hold	n = 00~99	Enter the station speed dial bin number. A station can have up to 100 speed dial bins. **Note** Adding bin numbers here will automatically increment the number of speed dial bins available to the station in increments of 10 speed dial bins. The number of speed dial bins available to the station can also be assigned and displayed in Program 200, 35 - Station SpDial Bins. Example: If bin number 50 is entered here, 50 speed dial bins will automatically be assigned to the station and will also be displayed in Program 200, 35.
516-02	Number FB02, n, Hold	n = Up to 32 digits, 0~9, *, # and Pauses	This is the dialable number stored in the speed dial bin. To enter pauses enter Px, where x equals 0~9 (seconds), which is the length of the pause, 0=10 seconds. **Notes** • If the number being entered exceeds the 32 digits, the next speed dial location will automatically be appended to create longer numbers. • Also another speed dial bin can be nested within another bin for dialing common numbers. If speed dial bin 100 has long distance access digits 1010321, these digits can be nested in to other speed dial bins by using *100 as the first digits of the other bins. Example putting *10017145563425 into speed dial bin 150 would cause SD150 to dial the access digits plus the number 10132117145563425. • If you are programming from the Telephone the digits * and # have a special meaning when programming speed dial numbers. The # digit indicates the end of entry and * is an escape character. To dial the digits * or # as part of the number; enter ** or *#. To enter pauses enter *0~*9. The second digit represents the number of seconds for the pause function.
516-03	Name FB02, n, Hold, Hold	n = Up to 8 characters	Enter the LCD Name that displays on LCD dial directories. **Note** This feature is available in CTX WinAdmin and Strata DKT30xxSD only.

Table 1-35 Programs 500~577 *(continued)*

Button	Sequence	Value(s)	Summary
517	Multiple Calling Group Assignment 517, Hold		This feature is available only with CTX Release 1.3 or higher software and with CTX WinAdmin Release 1.3 or higher software.
517-00	Multiple Call Group Number n, Hold	n = 1~16 (CTX100), 1~32 (CTX670 Basic) 1~64 (CTX670 Exp.)	Select a group number.
517-01	MC Group Pilot Number FB01, n, Hold	n = 1~5 digits	Enter the Pilot Directory Number that should be assigned to the Multiple Call Group. This can be any number 1~5 digits that does not conflict with numbers in the current system Number Plan.
517-02	Ring Delay 1 Timer FB02, n, Hold	n = 1~180	Set the timer in seconds.
517-03	Ring Delay 2 Timer FB03, n, Hold	n = 1~180	Set the timer in seconds.
517-04	System Call Forward FB04, n, Hold	n = 0~32	Assign a System Call Forward template number to the multiple calling group. Enter 0 or 1~32.
517-05	Voice Mail ID FB05, n, Hold, Hold	n = Up to 10 digits	Enter the VM call forward ID digits for the multiple calling group
518	Multiple Calling Members Assignment 518, Hold		This feature is available only with CTX Release 1.3 or higher software and with CTX WinAdmin Release 1.3 or higher software. This program assigns members to a group.
518-01	Multiple Calling Group Index FB01, n, Hold	n = 1~16 (CTX100), 1~32 (CTX670 Basic) and 1~64 (CTX670 Exp.)	Enter a group number.
518-02	Member Index Number FB02, n, Hold	n = Up to 32 digits	Enter the DN of the extension you wish to add.
518-03	Member Type FB03, n, Hold	n = No Data Dialing Digits	Enter Dialing Digits to make the extension ring.
518-04	Member DN FB04, n, Hold	n = Up to 32 digits	Enter the DN of the extension you wish to add.
518-05	Ringing Options FB05, n, Hold, Hold	n = Immediate Delay 1 Delay 2	Select either: Immediate, Delay 1 or Delay 2.
519	Delete Multiple Calling Group Index 519, Hold		This program deletes multiple calling group.
519-01	Delete	1~16 (CTX100), 1~32 (CTX670 Basic) 1~64 (CTX670 Exp.)	Enter the multiple ringing group index number
520	LCR Local Route Plan Assignment 520, Hold		There are 64 LCR route plans. This assignment is used to select which LCR route plan should be used to route local calls. The Local Route Plan, which must be defined in the route definition assignment, determines which CO line group is used for local outgoing calls.
520-01	Local Area Code FB01, n, Hold	n = 3 digits	Enter the area code for the dialing area in which the system is installed. This is the area code for the Central Office (CO) that provides local CO lines to the system. If no data is entered in this field, any previously programmed data is lost.
520-02	Local Route Plan FB02, n, Hold, Hold	n = 1~64 (default = 1)	Enter the LCR Route Plan number that should be used to route local calls. Local calls are made by dialing 7-digit public telephone numbers that do not require an Area Code. There are 64 LCR Route Plans from which to choose.

Table 1-35 Programs 500~577 *(continued)*

Button	Sequence	Value(s)	Summary
521	LCR Route Plan Digit Analysis Assignment 521, Hold		This program builds the basic LCR Analysis Table.
521-00	Analysis Digits n, Hold	n = Up to 11 digits Wild Card uses n and X where X = 0~9 and n = 2~9	Enter the external digit strings (area codes, toll prefixes, service codes, etc.) to be assigned to a Route Plan Analysis Table. Strings may be up to 32 digits long. There Route Plan Analysis Table may have 1280 members. A digit string can only be in one table at a time.
521-01	Route Plan Number FB01, n, Hold, Hold	n = 0~64 (default = 0)	Enter the Route Plan number to which to assign the Analysis Digits. **Note** Entering 0 deletes the Analysis Digits from the table to which they had been assigned.
522	LCR Exception Number Route Plans 522, Hold		This command assigns up to 1280 dialed external digit strings to the Route Plan Exception Analysis Table which assigns each string to 1 of 64 Route Choice Tables. The values expressed here are exceptions to the values established in Program 521.
522-00	Exception Route Plan Table n, Hold	n = Up to 11 digits Wild Card uses n and X where X = 0~9 and n = 2~9.	Enter the external digit strings (area codes, toll prefixes, service codes, etc.) to be assigned to a Route Plan Exception Analysis Table. Strings may be up to 32 digits long. The Exception Route Plan Analysis Table may have 1280 members. A digit string can only be in one table at a time.
522-01	Exception Route Plan FB01, n, Hold, Hold	n = 1~64 (default = 0)	Enter the Route Plan Table in which to assign the Exception Digits. **Note** Entering 0 deletes the Exception Digits from the table.
523	LCR Route Plan Schedule Assignment 523, Hold		This command assigns Route Plan Schedule Tables for LCR. Each table is a 3-dimensional array of 144 values (3 Types of Day x 3 Times of Day x 16 LCR Groups).
523-00	Route Plan n, Hold	n = 1~64	Enter the Route Plan Number to build a schedule indexed by Time of Day, Type of Day and LCR Group.
523-01	Type of Day FB01, n, Hold	n = 1. **Weekday** 2. Weekend 3. Holiday	Select the Type of Day.
523-02	LCR Time of Day FB02, n, Hold	n = 1. Time Zone1 2. Time Zone2 3. **Night**	Select the Time Zone.
523-03	Station LCR Group FB03, n, Hold	n = 1~16 (default = 1)	Select the Station LCR Group.
523-04	Route Choice Table FB04, n, Hold, Hold	n = 1~128 (default = 1)	Enter the Route Choice Table Number to be used with this combination of time, type and LCR group.

Table 1-35 Programs 500~577 *(continued)*

Button	Sequence	Value(s)	Summary
524	Route Table to Route Definition Assignment 524, Hold		This command defines up to six possible Route Definitions for a given Route Table.
524-00	Route Choice Table n, Hold	n = 1~128 0 = Delete	Enter the Route Choice Table to be defined.
524-01	Route Definition 1 FB01, n, Hold	n = 1~128 0 = Delete (default = 1)	Enter Route Definitions to be assigned to this Route Table.
524-02	Route Definition 2 FB02, n, Hold	n = 1~128 0 = Delete (default = 1)	Enter Route Definitions to be assigned to this Route Table.
524-03	Route Definition 3 FB03, n, Hold	n = 1~128 0 = Delete (default = 1)	Enter Route Definitions to be assigned to this Route Table.
524-04	Route Definition 4 FB04, n, Hold	n = 1~128	Enter Route Definitions to be assigned to this Route Table.
524-05	Route Definition 5 FB05, n, Hold, Hold	n = 1~128	Enter Route Definitions to be assigned to this Route Table.
525	LCR Route Definition Assignment 525, Hold		This command assigns Route Definitions for LCR. A Route Definition consists of an OLG and a Digit Modification index.
525-00	Route Definition n, Hold	n = 1~128	Select the Route Definition number.
525-01	OLG Number FB01, n, Hold	n = 0~32 (CTX100) 0~50 (CTX670 Basic) 0~128 (CTX670 Exp.) (default = 1)	Select the OLG Number associated with this Route Definition.
525-02	Digit Mod Index FB02, n, Hold, Hold	n = 1~128 (default = 1)	Select the Digit Modification number associated with this Route Definition.
526	Modified Digits Table Assignment 526, Hold		This command modifies LCR dialed numbers by deleting digits from and adding digits to the dialed numbers.
526-00	Digit Modification Index n, Hold	n = 1~128	Select the Digit Modification Index used by the LCR Route Choice table to determine the digit modification treatment to be applied. Leading digits of a dialed number may be deleted; leading and trailing digits may be added to the dialed number.
526-01	Delete Digits FB01, n, Hold	n = 0~10 (default = 0)	Select the quantity of digits to be deleted from the beginning of dialed number.
526-02	Add Leading Digits FB02, n, Hold	n = Up to 23 digits	Enter the digit string to be inserted at the beginning of the number.
526-03	Add Trailing FB03, n, Hold, Hold	n = Up to 23 digits	Enter the digit string to be inserted at the end of the number.
527	LCR Holiday Table Assignment 527, Hold		This command assigns up to 128 holidays for LCR processing. These assignments are related to the Day assignments established in Program 523.
527-00	Holiday YYYYMMDD, Hold	YYY Year Y = Month MM = Day DD =	Enter Date (YYYYMMDD). A maximum of 128 dates is allowed.
527-01	Add/Delete FB01, n, Hold, Hold	n = 1. Add 2. **Delete** (default)	Choose to add or delete this date from the holiday table. Expired dates remain in the table unless deleted.

Table 1-35 Programs 500~577 *(continued)*

Button	Sequence	Value(s)	Summary
528	LCR Public Day of Week Mapping Table 528, Hold		This command defines the days of the week as weekdays, weekend days or holidays for LCR.
528-01	Monday FB01, n, Hold	n = 1. **Weekday** (default) 2. Weekend 3. Holiday	Select the Day Type to assign to this day.
528-02	Tuesday FB02, n, Hold	n = 1. **Weekday** (default) 2. Weekend 3. Holiday	
528-03	Wednesday FB03, n, Hold	n = 1. **Weekday** (default) 2. Weekend 3. Holiday	
528-04	Thursday FB04, n, Hold	n = 1. **Weekday** (default) 2. Weekend 3. Holiday	
528-05	Friday FB05, n, Hold	n = 1. **Weekday** (default) 2. Weekend 3. Holiday	
528-06	Saturday FB06, n, Hold	n = 1. Weekday (default) 2. **Weekend** 3. Holiday	Select the Day Type to assign to this day.
528-07	FB07, n, Hold, Hold	n = 1. Weekday (default) 2. **Weekend** 3. Holiday	Select the Day Type to assign to this day.
529	LCR Route Plan Time Zone Assignment 529, Hold		This command creates a three-dimensional array (Day, Time & LCR Group) for each Route Plan.
529-00	Route Plan Time Zone n, Hold	n = 1~64	Select the LCR Route Plan Number to assign to this time zone.
529-01	Day Type for Time Zone FB01, n, Hold	n = 1. Weekday 2. Weekend 3. Holiday	Select a Day Type for which to define a time zone.
529-02	Time Zone FB02, n, Hold	n = 1. Zone1 2. Zone2 3. Zone3	Select a Time Zone.
529-03	Time Zone Start Time FB03, hhmm, Hold, Hold	hh = hour (00~23) mm = minute (00~59) (default = 0000)	Enter the start time for the selected Time Zone (hhmm). **Note** Enter your Day Type and Time Zone selections before entering data in to this field.
530	DR LCR Screening Table Assignment 530, Hold		This command screens dialed digits for access codes such as Carrier Identification Codes or Behind Centrex/PBX access codes. Used only in LCR calls.
530-00	Screening Dial String n, Hold	n = Up to 7 digits	Enter the string of external digits to be screened.
530-01	Add String to Table FB01, n, Hold	n = 1. Add 2. **Delete** (default)	Add the Screening Dial String to the DR LCR Screening Table.
530-02	DR Action FB02, n, Hold	n = 1. **Bypass** (default) 2. Skip and Apply	Select DR Action. • Bypass ñ Do not apply DR. • Skip and Apply ñ Apply DR to the dialed digits excluding the number of digits specified in Skip Length.

Table 1-35 Programs 500~577 *(continued)*

Button	Sequence	Value(s)	Summary
530-03	LCR Action FB03, n, Hold	n = 1. Apply (default) 2. Skip and Apply	Select LCR Action. • Apply ñ (default) Apply LCR to all of the external dialed digits. • Skip and Apply ñ Apply LCR to the dialed digits excluding the number of digits specified in Skip Length.
530-04	Digit Modification Action FB04, n, Hold	n = 1. Apply (default) 2. Retain 3. Discard	Select Digit Modification application. • Apply ñ (default) Apply Digit Modification from the first digit. • Retain ñ Retain the skipped digits and apply Digit Modification starting from the next digit specified by Skip Length. • Discard ñ Discard the skipped digits and apply Digit Modification starting from the next digit specified by Skip Length.
530-05	Skip Length FB05, n, Hold, Hold	n = 0~5 0 = delete (default = 0)	Specify the number of digits at the beginning of the dial string to be ignored before DR, Digit Modification, or LCR is applied.
531	DR Screening Table for OLG 531, Hold		Assigns DR Screening Table for an OLG. Up to four codes may be assigned per line group. Used for outgoing calls other than LCR.
531-00	OLG n, Hold	n = 1~32 (CTX100) 1~50 (CTX670 Basic) 1~128 (CTX670 Exp.)	Enter the OLG Number.
531-01	Behind Centrex Access Code FB01, n, Hold	n = Up to 8 digits	Enter the access code expected by an attached Centrex PBX.
531-02	Add or Delete Code FB02, n, Hold	n = 1. Add 2. **Delete** (default)	Add or Delete the Code entered above. Leaving the field empty removes an existing code. Activation requires entries in OLG Group number and 01 Behind Centrex Access Code above.
531-03	DR Action for Centrex FB03, n, Hold	n = 1. **Bypass** (default) 2. Skip and Apply	Apply DR to the dialed digits. • Bypass (default) ñ does not apply DR. • Skip and Applyñ applies DR to the dialed digits excluding the number of digits specified in Skip Length.
531-04	Skip Length FB04, n, Hold	n = 0~8 (default = 0)	Enter the number of leading digits to be ignored by DR.
531-05	Pause Insertion FB05, n, Hold, Hold	n = 0~10 (default = 0)	Enter the length of the pause to be inserted between dialing digits.
532	DR Table Allow/Deny Definition 532, Hold		Specify the DR Table Type using this command.
532-00	DRL Number n, Hold	n = Up to 8 digits	Select the DRL Number.
532-01	Table Type FB01, n1, Hold, Hold	n1 = 1. Allow 2. **Deny** (default)	Specify whether this DR Table is an Allow Table or Deny Table.
533	DR Level Table Assignment 533, Hold		This program adds or deletes entries in the DR Table associated with the DRL entered in above.
533-00	DRL Number n, Hold	n = Up to 16 digits	Enter the DRL for which you want to populate an Exception Table.
533-01	Dial String FB01, n1, Hold	n1 = 1~ 7 digits may include wild cards ìXî and ìNî where X = 0~9 and N = 2~9.	Add the dial string you wish to be treated as an exception.
533-02	Add or Delete FB02, n2, Hold, Hold	n2 = 1. Add 2. **Delete** (default)	Add or delete the string entered in *01 DR Exception Table* above to the DR Exception Table.

Table 1-35 Programs 500~577 *(continued)*

Button	Sequence	Value(s)	Summary
534	DRL Exception Table Assignment 534, Hold		This program assigns a DRL Exception Table to an existing DRL table. If the DRL Table is an allow table, its Exception Table must be a deny table and vice versa.
534-00	DRL Number n, Hold	n = Up to 8 digits	Enter the DRL for which you want to populate an Exception Table.
534-01	Dial String FB01, n1, Hold	n1 = 1~ 7 digits may include wild cards ìXî and ìNî where X = 0~9 and N = 2~9.	Add the dial string you wish to be treated as an exception.
534-02	Add/Delete FB02, n2, Hold, Hold	n2 = 1. Add 2. **Delete** (default)	Add or delete the string entered in *01 DR Exception Table* above to the DR Exception Table.
540	Pilot DN Assignment 540, Hold		Pilot DNs are directory numbers that have no physical appearance, they are true virtual numbers. They can be used in CTI and Voice Mail applications. In ACD Pilot Numbers are used as ACD group numbers. In Voice Mail applications Pilot DNs are used to call directly to, or transfer calls directly to specific voice mail boxes ñ this is done by setting VM as the alternate destination and using the VMID to send the call to a specific VM box.
540-00	Pilot DN n, Hold	n = Up to 8 digits	Pilot DNs are directory numbers that have no physical appearance. They are true virtual numbers. They can be used in CTI and Voice Mail applications. In ACD, Pilot Numbers are used as ACD group numbers. In Voice Mail applications they are used to call directly to or transfer calls directly to specific voice mail boxes - this is done by setting VM as the alternate destination and using the VMID to send the call to a specific VM box. Maximum characters for Pilot DNs: • CTX100: R1.00 & R1.01=5 max./R1.02=100 Max • CTX670 Basic: R1.00 & R1.01=10max./R1.02=200max • CTX670 with BBMS/BEXS: R1.00 & R1.01=32max./ R1.02=256max
540-01	After Shift Type FB01, n, Hold	n = 1. **No Data** (default) 2. Dialing Digits 3. Night Bell	Calls to the Pilot DN will be routed to the Alternate Destination if the Pilot DN is not available (example: ACD After Shift). If Dialing Digits is selected, enter the appropriate DN in the Alternate DN assignment.
540-02	After Shift Destination FB02, n, Hold	n = Up to 32 digits	If Dialing digits is selected as the Alternate Destination, enter the PDN, PhDN or Hunt Group pilot number to which the call should be routed.
540-03	Voice Mail ID FB03, n, Hold, Hold	n = Up to 16 digits	If the Alternate Destination is Voice Mail, enter the Voice Mail ID that should be sent.
541	Pilot DN Delete 541, Hold		This command enables you to delete Pilot DNs.
541-01	Delete Pilot DN n, Hold, Hold	n = Up to 5 digits	Enter the Pilot DN Number that you wish to delete.
550	Enhanced 911 Emergency Call Group 550, Hold		This command assigns OLGs to the Enhanced 911 Emergency Call Group.
550-00	Emergency Call Group Number n, Hold	n = 1~8	Specify the Emergency Call Group.
550-01~08	OLG1~OLG8 FB01~FB08, n, Hold, Hold	n = 0~32 (CTX100) 0~50 (CTX670 Basic) 0~128 (CTX670 Exp.) (default = 0)	Specify the first through eighth OLG to be chosen for an E911 call.

Table 1-35 Programs 500~577 *(continued)*

Button	Sequence	Value(s)	Summary
570	Account Code Digit Length 570, Hold		Accounting Codes need to be specified for the number of digits that are expected to be used for registering a number. This allows dialing within Strata CTX to proceed automatically once the correct account code is dialed. The following numbers are then dialed digits used for making the phone call. A second length is provided to allow the number of digits to be used for verification of the code to be less than the total code entered; thus, the code may contain two parts, one required and one part optional to the user..
570-01	Verified Digit Length FB01, n, Hold	n = 4~15 (default = 4)	The Verified Digit Length sets a number of digits to verify with a pre-set list. This number may be the same or smaller than the account code digits set to be entered for creating a complete accounting code. **Note** This field is not changed, when ìProgram 506î on page 75 are registered.
570-02	Registered Digit Length FB02, n, Hold, Hold	n = 4~15 (default = 6)	The Registered Digit Length sets a number for the digits to be entered to make a complete accounting code entry. **Note** The Registered Digit Length (FB02) must be greater than or equal to the Verified Digit Length (FB01).
571	Exception Numbers for Forced Account Codes 571, Hold		Up to four telephone numbers can be programmed as exceptions to the forced and /or verified account code entries (including 911). These special codes enable numbers to bypass the verification process and proceed unhindered.
571-01	Exception Number 1 FB01, n, Hold	n = Up to 4 digits Exception 1 default = 911 Exception 2~4 default = no value	Enter a Forced Account Code Exception. **Note** One of the assigned exception numbers should be 911. Exception Numbers for Forced Account Code fields cannot be duplicated.
571-02	Exception Number 2 FB02, n, Hold		
571-03	Exception Number 3 FB03, n, Hold		
571-04	Exception Number 4 FB04, n, Hold, Hold		
573	Delete Door Phone 573, Hold		This command deletes door phone.
573-00	Door Phone n, Hold, Hold	n = 1~6 (CTX100) 1~9 (CTX670 Basic) 1~24 (CTX670 Exp.)	Enter the number of the door phone that is to deleted.
576	Door Phone Night Ring Over External Page 576, Hold		This command assigns a Page Group to ring during system Night Mode when a door phone button is pressed. The assignment can be made independently for each Tenant.
576-00	Tenant Number n, Hold	n = 1~2 (CTX100) 1~8 (CTX670)	Select the system Tenant number to be assigned Door Phone to Page Group/Night Ringing.
576-01	Page Group Number FB01, n, Hold, Hold	n = 0~4 (CTX100) 0~8 (CTX670 Basic) 0~16 (CTX670 Exp.) (default = 0)	Select the system Page Group number that should ring for the selected Tenant when a door phone button is pressed during the system Night Mode.
577	Caller History 577, Hold		This command assigns which station stores Caller ID information for PDN,CO,GCO and POOL line buttons
577-00	Circuit Type/Number n, Hold	n = Up to 6 digits	Enter the Circuit Type and number. See the Table 1-36 on page 89.
577-01	Primary DN FB01, n, Hold, Hold	n = Up to 5 digits	Enter Station DN to store call history data.

Table 1-36 Circuit Type Code Definitions

Circuit Name	Circuit Type	Circuit Number	Example
DN	1	0~99999 (DN)	if DN is 200, value is 1200
CO	2	1~264 (Trunk Number)	if CO is 30, value is 230
GCO	3	1~128 (GCO Key Group Number)	if GCO is 50, value is 350
POOL	4	1~128 (POOL Key Group Number)	if POOL is 80, value data is 480

Table 1-37 Programs 579~580

Button	Sequence	Value(s)	Summary
579	System Voice Mail Data 579, Hold		This command assigns DTMF/SMDI Voice Mail interface parameters for the system.
579-01	VM ID to DID/DNIS Association FB01, n, Hold	n = 1. DN VMID (default) 2. DID/DNIS VMID	Select DN VMID to send the DN's VMID to voice mail on DID/DNIS calls that are answered and then transferred to a DN which then forwards to voice mail. Select DID/DNIS VMID to send the DID/DNIS number's VMID to voice mail on DID/DNIS calls that are answered and then transferred to a DN which then forwards to voice mail. If a DID/DNIS call is answered by a station and then transferred to a DN which then forwards to voice mail, the VMID of the DID/DNIS number (Program 309, FB11 or FB15) or the VMID of the forwarding DN (Program 200, FB19 or 206, FB06) will be sent to voice mail per this option. **Note** The DID/DNIS number's VMID (Program. 309, FB11 or FB15) is always sent to voice mail on DID/DNIS calls that ring directly to voice mail or ring a DN which then forwards to voice mail before it is ever answered.
579-02	Cancellation Method for VM MW FB02, n, Hold	n = 1. Auto and Access Code Cancel 2. **Access Code Cancel** (default)	Select the method used to cancel Voice Mail message waiting indication.
579-03	Message Desk Number FB03, n, Hold	n = 1. Enable 2. Disable (default)	Enable to send the SMDI Message Desk Number (001) in the SMDI packet; otherwise, 000 for a station call or the 3-digit CO line number is sent.
579-04	Output of CLASS, ANI and DNIS FB04, n, Hold	n = 1. Enable 2. **Disable** (default)	Enable to include Caller ID/ANI numbers in SMDR records.
579-05	Calling Number Digits Sent to VM FB05, n, Hold	n = 2~10 (default = 10)	Select how many calling number digits to send to the VM unit. **Note** If *04 Output of CLASS / ANI and DNIS* is enabled, this value must be 10.
579-06	Blank Digits Sent to VM FB06, n, Hold	n = 1. 1985 2. **1991** (default)	Send SMDI-Bellcore Standard VM Interface. • 1 = 1985 (single space) • 2 = 1991 (two spaces).
579-07	Auto Cancel of VM and MW FB07, n, Hold	n = 1. **Enable** 2. Disable (default)	Setting of auto cancel of VM and MW.
579-08	DTMF Duration FB08, n, Hold	n = 1. **80 ms** (default) 2. 160 ms	Select VM ID Code and System DTMF Signal Time.
579-09	LCD Control of Voice Mail FB09, n, Hold	n = 1. **Enable** (default) 2. Disable	Enables Toshiba SMDI+ and integration for LCD control of VM. To enable this feature you must have Stratagy Enterprise Server Release 3.x or higher.

Table 1-37 Programs 579~580 *(continued)*

Button	Sequence	Value(s)	Summary
579-10	Central VM Callback FB10, n, Hold	n = Up to 7 digits	Enter the pilot DN for the centralized voice mail system. If this field is left blank, the previously stored number will be deleted.
579-11	CFWD All Call Record FB11, n, Hold	n = Up to 4 digits (default = 91)	Enter DTMF VM-ID prefix string for calls arriving to voice mail via ìCall Fwd All Calls.
579-12	CFWD Busy Record FB12, n, Hold	n = Up to 4 digits (default = 91)	Enter DTMF VM-ID prefix string for calls arriving to voice mail via ìCall Fwd Busy.î
579-13	CFWD No Answer Record FB13, n, Hold	n = Up to 4 digits (default = 91)	Enter DTMF VM-ID prefix string for calls arriving at the voice mail via ìCall Fwd No Answer.î
579-14	Direct Call FB14, n, Hold	n = Up to 4 digits (default = 91)	Enter DTMF VM-ID string for a call arriving at the voice mail as a Direct Call.
579-15	Retrieve Messages FB15, n, Hold	n = Up to 4 digits (default = 91)	Enter DTMF VM-ID string for calls arriving at the voice mail to retrieve messages.
579-16	Voice Main DN FB16, n, Hold	n = Up to 7 digits (default = 91)	Use a VM Pilot DN as a transfer destination.
579-17	Length of VM ID FB17, n, Hold, Hold	n = 1~10 (default = 91)	Select the number of characters in VM-ID string.
580	Voice Mail Port Data 580, Hold		Assign characteristics of individual voice mail ports.
580-00	VM Port DN n, Hold	n = Up to 5 digits	Enter the DN of an individual VM port. For direct transfer to voice mail, enter the remote Node ID and Pilot DN. **Note** Do not enter a Pilot DN. This feature is available only with CTX Release 1.3 or higher software and with CTX WinAdmin Release 1.3 or higher software.
580-01	Control Method FB01, n, Hold	n = 1. **Inband/DTMF** 2. SMDI (default = no value)	Specify In-band or SMDI integration. Select SMDI for Remote voice mail.
580-02	Send A/D Tone FB02, n, Hold	n = 1. **Enable** (default) 2. Disable	Select whether Strata CTX sends A or D tone when a station connecting to voice mail answers or disconnects.
580-03	Send B Tone FB03, n, Hold	n = 1. **B Tone** 2. No Tone (default) 3. B Tone and Extension Number	Enable Strata CTX to send B tones in the event of a Blind Transfer Recall.
580-04	End-to-end FB04, n, Hold, Hold	n = 1. **Enable** (default) 2. Disable	Enable Strata CTX to send DTMF tones to voice mail in response to key presses from a digital telephone.

600 Series Programs

Table 1-38 Programs 650~660

Button	Sequence	Value(s)	Summary
650	Behind Centrex Assignment 650, Hold		Assigns parameters for operation behind Centrex or another PBX
650-00	OLG Number n, Hold	n = 1~32 (CTX100) 1~50 (CTX670 Basic) 1~128 (CTX670 Exp.)	Specify OLG Number that is attached to a Centrex or another PBX. (1~128 Expanded; 1~47 Basic)
650-01	Behind Centrex FB01, n, Hold	n = 1:Enable 2:Disable (default)	Enable or disable Behind Centrex operation for this OLG.
650-02	Assume 9 FB02, n, Hold	n = 1:Enable 2:Disable (default)	Check to turn on the Assume 9 feature.
650-03	Pause Timer (Seconds) FB03, n, Hold	n = 0~5 (default = 0)	Enter the number of seconds (0~5) the CTX will wait for second dial tone from Centrex/PBX.
651	Private Routing Plan Analysis Table Assignment 651, Hold		Assigns Node IDs to Route Choice Tables for Private Networking
651-00	Node ID n, Hold.	n = Up to 6-digits.	Enter the Node ID to be associated with a Private Route Choice Table Number.
651-01	Private Network Route Choice Table Number FB01, n, Hold, Hold	n = 0~64, 0 = Delete	**Note** Enter the Private Route Choice Table Number to be associated with this Node ID. Entering ì0î deletes the Node ID.
653	Private Route Choice Table Assignment 653, Hold		Use this command to define a Private Network Route Choice Table. A Private Network Route Choice Table contains up to six Route Definitions. The system will step through these Route Definitions in terminating hunt fashion to find a route to the desired Private Network networking node. There may be up to 64 Route Choice Tables.
653-00	Private Network Route Choice Table Number. n, Hold,	n = 1~64, 0 = delete	Enter the Private Network Route Choice Table Number (1~64).
653-01~06	01 Route Definition Table~06 Route Definition Table FB01~FB06, n, Hold, Hold	n = 0~64, 0 = delete	Enter the first, second, third, fourth, fifth, last Route Definition Table to be used for for this Private Network Route Choice. Entering ì0î will delete an existing entry.
654	Private Route Definition Table Assignment 654, Hold		Use this command to define a Private Network Route Definition. A Private Network Route Definition consists of an Outgoing Line Group (OLG) and a pointer into the Private Network Digit Modification Table that contains the dialed digits to be deleted and/or inserted before being communicated to the distant node.
654-00	Private Network Route Definition n, Hold	n = 1~64	Enter the number of the Private Network Route Definition (1~64) to be defined or deleted.
654-01	OLG FB01, n, Hold	n = 1~32 (CTX100) 1~50 (CTX670 Basic) 1~128 (CTX670 Exp.) 0 = delete	Enter the OLG to be used by this route definition.(1~128 Expanded; 1~47 Basic)
654-02	Digit Modification Table FB02, n, Hold, Hold	n = 0~64, 0 = delete	Enter the Digit Modification Table Number (1~64) to be used by this route definition.

Table 1-38 Programs 650~660 *(continued)*

Button	Sequence	Value(s)	Summary
655	Private Digit Modification Table Assignment 655, Hold		The Private Network Digit Modification table may contain up to 64 entries. Each entry specifies the number of leading digits to be deleted from the dialed number and the dial string to be inserted as leading digits. The inserted dial string may have up to 23 digits.
655-00	Private Digit Modification Table n, Hold	n = 1~64	Enter the Private Network Digit Modification Table (1~64) to be defined.
655-01	Private Digit Modification Digit To Be Deleted FB01, n, Hold	n = 1~10, 0 = delete	Enter the number of leading digits to be deleted (1~10).
655-02	Insert Leading Digits FB02, n, Hold, Hold	n = Up to 23 digits	Enter the leading digits to be inserted. A numerical string up to 23 digits.
656	Node ID Assignment 656, Hold		Assigns up to 4 Network Node IDs to this node for processing incoming network calls. Each Node ID has an overlap code. The CTX will substitute the Overlap Code for the Node ID before processing the call further. A Network Directory Number consists of a Node ID and the desired extension in that node. Node ID must first be established in CMD102.
656-01	Primary Node ID Primary Overlap Code FB01, n, Hold	n = Up to 6 digits	Enter the Primary Node ID for this node. This Node ID identifies the node for administration. Node ID must first be established in Program 102.
		n = Up to 4 digits	Enter the Overlap Code associated with the Primary Node ID. An Overlap Code is the string of digits that will replace the Node ID for further call processing.
656-02	Node ID 2 Overlap Code 2 FB02, n, Spkr, n1, Hold	n = Up to 6 digits	Enter Node ID 2 for this node. Node ID must first be established in CMD102.
		n1 = Up to 4 digits	Enter the Overlap Code associated with Node ID 2. An Overlap Code is the string of digits that will replace the Node ID for further call processing.
656-04	Node ID 3 Overlap Code 3 FB03, n, Spkr, n1, Hold	n = Up to 6 digits	Enter the Overlap Code associated with Node ID 3. An Overlap Code is the string of digits that will replace the Node ID for further call processing.
		n1 = Up to 4 digits	Enter Node ID 4 for this node. Node ID must first be established in CMD102.
656-05	Node ID 4 Overlap Code 4 FB04, n, Spkr, n1, Hold, Hold	n = Up to 6 digits	Enter the Overlap Code associated with Node ID 4. An Overlap Code is the string of digits that will replace the Node ID for further call processing.
		n1 = Up to 4 digits	The privilege to pick a specified DN.

Table 1-38 Programs 650~660 *(continued)*

Button	Sequence	Value(s)	Summary
657	Network COS Mapping Table Assignment 657, Hold		This table translates a Network COS received as part of a Traveling Class Mark to a local Class of Service for access to local services. There is no translation of Outgoing Network COS.
	Network COS n, Hold	n = 1~32	Enter the Network COS to be translated (1~32).
657-01	Local COS FB01, n, Hold	n = 1~32	Enter the Local COS to be used in place of the received Network COS (1~32).
657-02	Off-hook Call Announce FB02, n, Hold	n = 1. Enable 2. Disable (default)	Choose whether an incoming call with this Network COS can activate Off-Hook Call Announce.
657-03	System Speed Dial FB03, n, Hold		Choose whether an incoming call with this Network COS can use a System Speed Dial number to make an otherwise restricted outgoing call.
657-04	COS Override FB04, n, Hold		Choose whether an incoming call with this Network COS can use Class of Service Override.
657-05	TGAC Override FB05, n, Hold, Hold		Choose whether an incoming call with this Network COS can override local Trunk Group Access Control. Typically an attendant function.
658/ 659/ 660	Network DRL Mapping Tables 658/659/660, Hold		This command is used to establish two mapping tables to equate local DRLs with network DRLs for both outbound and inbound network calls.
	Type n, Hold	n = 1. Outbound 2. Inbound	Choose ìOutboundî to equate the DRL of the local originator to a Network DRL. Choose ìInboundî to equate a received Network DRL with a local DRL for local termination.
	Network DRL/FRL/ QPL FB01, n, Hold	n = 1~16	Enter the local DRL/FRL/QPL you want to map to Network DRL/FRL/ QPL 1~DRL/FRL/QPL 16. This value can be different depending on the type of table chosen above.
661	Network DN Table 661, Hold		This program assigns the PDN, PhDN or Pilot DNs to a CTX node ID. This include all DNs in all CTX nodes on the CTX network, except the DNs in the node you are currently programming.
661-00	Network DN n, Hold	n = Five ASCII characters max. (Default = No Data)	Enter the PDN, PhDN or Pilot DNs that should be assigned to a CTX Node ID. This include all DNs in all CTX Nodes on the CTX network, except the DNs in the node you are currently programming.
661-01	Node ID FB01, n, Hold	n = Six ASCII characters max. (Default = No Data)	Enter the CTX Node ID that should be assigned to the DN.
673	Delete Node ID for Private Networking Over IP 673, Hold		This program deletes Node IDs.
673-00	Node ID n, Hold	n = upto six digits	Delete Node ID
673-01	Registration State FB01, n, Hold	n = 1. doesnít exist 2. exist 3. delete	Delete Registration State.

800 Series Programs

Table 1-39 Programs 801~803

Button	Sequence	Value(s)	Summary
801	Network Jack LAN Device Assignments 801, Hold		This screen assigns the LAN parameters for the PC applications connected to the BECU Network Jack through a LAN or Hub.
801-00	LAN Port Number n, Hold	n = 1~12 (default = no value)	Enter the port number of the LAN device to be assigned. Refer to Program 803 SMDR SMDI CTI Port Assignments. **Notes** • Program the local port number for LCD Control of Voice Mail • Use the same Device Port No. (11) for Network BLF. • Use 10 for Network CTX Proprietary Integration • Use 12 for Network DSS Network BLF and DSS are available only with CTX Release 1.3 or higher software and with CTX WinAdmin Release 1.3 or higher software.
801-01	Protocol FB01, n, Hold	n = 1. TCP (default) 2. UDP	Select communication Protocol. **Note** Select UDP for Network DSS.
801-02	PC Operation Type FB02, n, Hold	n = 1. Server (default) 2. Client	Enter the application PC type: Server or Client.
801-03	Data Flow FB03, n, Hold	n = 1. Synchronization 2. Asynchronization (default)	Enter the data flow protocol that should take place between the CTX and PC. If the PC is a CTX, CTI application assign ìAsynchronizationî to data flow.
801-04	Server Port Number FB04, n, Hold	n = 0~65535 (default = 0)	Enter the Server Port Number and proceed to *07 Read Retry Number*. This field is required if Server was selected in *02 PC Operation Type* above. If not, leave this field blank and proceed to *05 Client IP Address*. **Note** Use 6000 for Network BLF, 3000 for Network DSS, and 5000 for Network CTX Proprietary Integration.
801-05 801-06 801-07 801-08	Client IP Address FB05, FB06, FB07, or FB08, n, Hold	n = 0~255 (default = 0)	Enter the Client LAN IP Address. This field is required if Client was selected in *02 PC Operation Type* above. 0~255 for each octet (default = 0) Enter IP address of Stratagy iES32 or SES.
801-09	Write Retry Number FB09, n, Hold	n = 0~65535 (default = 0)	Enter the Client Port number. This field is required if Client was selected in *02 PC Operation Type* above.
801-10	Write Retry Number FB10, n, Hold	n = 0~10 (default = 1)	Set the Read Retry counter to (1~10).
801-11	Write Retry Number FB11, n, Hold, Hold	n = 0~10 (default = 1)	Set the Write Retry counter to (1~10).
803	IO Logical Device Assignment 803, Hold		This screen is used to assign: 1. SMDR and SMDI to logical device and BSIS, RS-232 port numbers. 2. CTX WinAdmin, ACD sever, and Attendant Console to BECU, Network Jack logical device and LAN port numbers.
803-00	Logical Device Number n, Hold	n = 100 = SMDR 300 or 301 = SMDI 200~208 = CTI LAN Devices of PCs (default = no value) 400 = BLF 500 = DSS	Enter the 3-digit logical device number for SMDR, SMDI, and LAN device or PC application. See ìDevice Tableî on page 1-95 SMDR: 100 SMDI: 300 or 301 CTI LAN devices or PCs can be assigned to any of the 9 LAN devices numbers available: 200~208.

Table 1-39 Programs 801~803 *(continued)*

Button	Sequence	Value(s)	Summary
803-01	Device Connection FB01, n, Hold	n = 1. None (default) 2. LAN 3. RS-232	1. Enter RS-232 for SMDR or SMDI devices or PCs. These devices are connected to BSIS, RS-232 ports. 2. Enter LAN for CTX WinAdmin, ACD Server, and Attendant Console PC. These devices are connected to the BECU Network Jack directly or via a HUB or LAN.
803-02	Device Port Number FB02, n, Hold	n = 1~4 (for RS-232) 1~9 (for LAN) 11 (for BLF Networking) (default = 1)	1. SMDR and SMDI devices can be assigned to any BSIS, RS-232 Port: 1~4 (one port per device).. 2. LAN devices and PCs can be assigned to LAN logical Port (1~9) according to their logical device number assignments as shown: LAN Port1=device200 LAN Port2=device201 LAN Port3=device202 LAN Port4=device203 LAN Port5=device204 LAN Port6=device205 LAN Port7=device206 LAN Port8=device207

Table 1-40 Device Table

Logical Device	Logical Device Serial Number	Physical Device				Define I/O Logical Device Number
		LAN	PPP	RS-232C	Smart Media	
SMDR	0	-	-	OK	-	100
CTI	0	OK	-	-	-	200
	1	OK	-	-	-	201
	2	OK	-	-	-	202
	3	OK	-	-	-	203
	4	OK	-	-	-	204
	5	OK	-	-	-	205
	6	OK	-	-	-	206
	7	OK	-	-	-	207
	8	OK	-	-	-	208
SMDI	0	OK	-	OK	-	300
	1	OK	-	OK	-	301

Table 1-41 Program 804

Button	Sequence	Value(s)	Summary
804	RS232C Data Assignment 804, Hold		Use this screen to setup the RS-232 serial Ports on the BSIS interface PCB.
804-00	BSIS Port n, Hold	n = 1~4 (default = no value)	Enter the BSIS PCB port number.
804-01	Port Speed FB01, n, Hold	n = 1. 300 2. 1200 3. 2400 4. 4800 5. 9600 (default) 6. 19200 7. 38400 8. 57600	This is the data speed of BSIS port in bits per second (bps). **Note** The total combined maximum speed of BSIS ports cannot exceed 57,600 bps.
804-02	Port Parity FB02, n, Hold	n = 1. None 2. Even 3. Odd (default)	This is the parity error checking methods used by the BSIS port.
804-03	Data Bits FB03, n, Hold	n = 1. 7 Bits (default) 2. 8 Bits	This is the number of data bits used for each data block.
804-04	Flow Control FB04, n, Hold	n = 1. None (default) 2. Flow	This is the type of flow control used between the BSIS port and the SMDI or SMDR device. Must be set to ìFLOWî in order for the CTX to buffer call records.
804-05	Wait Timer FB05, n, Hold, Hold	n = 0~255 (default = 30 seconds)	Maximum time to wait for connection. 1. 0 means wait permanently 2. Timer value can be 1-255 seconds.

900 Series Programs

These programs are organized based on functions versus program numbers.

System Initialize

This program enables you to reset hardware and initializes, or restores programmed data.

Program Number(s): 900

Prerequisite Program: *None*

Reference: *None*

Access Sequence: *Login to programming mode from your telephone button pad:*
Hold ✱#✱#1✱2✱3✱.

At the ***PASSWORD=*** *prompt, Enter your password and press* Hold.

At the **PROG=** *prompt enter* 900 *and press* Hold.

FB Name	FB	Summary	Value	LCD Prompt
Initialize Level	01	Press 1 or 2 to select the initialize level. Level 1 ñ Erases programmed data and enters default data or backed up data if a SmartMedia Card is installed (see Note). Level 2 ñ Simulates System Power Off/Power On operation to reset hardware.	1. Initialize Level 1 2. Initialize Level 2	1:Restart with Clear Data 2:Restart

➤ **To access programming parameters**

1. Press FB01 to choose Initialize Level 1 or 2.
2. Press Hold twice to initialize.

Important! *Choosing Initialize Level 1 without installing a SmartMedia Card deletes all programmed data and returns your Strata CTX to factory default settings. All previously programmed data is lost.*

Restoring Data from SmartMedia

When initializing with Level 1 you can restore custom data that was previously programmed and stored on a SmartMedia card. To do so, follow the steps below.

1. Install a SmartMedia card that contains the **`Prgdata`** directory with the **`default.dat`** file. The **`default.dat`** file contains your custom settings and can be created by running Data Backup. See ìData Backupî on page 1-106.

Important! *A CTX* **`default.dat`** *database can only be restored to a CTX software version that is the same or higher than the CTX software version on which the default.dat file was created.*
Examples: A **`default.dat`** *created on CTXR2.0 MF029 can be restored on an R2.0 MF030, MF031 and higher R2.1MG0XX, R2.2 MF0XX (XX = 01~99, but it cannot be restored on R2.0 MF012, MF011 and lower, or R1.X ME0XX, MD0XX, etc.*

2. After installing the SmartMedia card, run System Initialization using Initialize Level 1.

   Restoring data from the SmartMedia card may take an hour or more. To verify completion of the restore process access, the Programming Mode from a telephone and enter your password. If the system enables you to continue, the data restore process is complete.

Note During the restore process, the telephone LCD may display date and time data. This does not necessarily indicate completion of the restore process.

Display Version

This program enables you to view current software versions for the Strata CTX system and installed options.

- Active – As the name implies, this is the current active software operating the Strata CTX system.
- Standby – This is a software version released prior to the active version. It acts as a backup in the event problems are experienced by the Active version.

Program Number(s): 901

Prerequisite Program: *None*

Reference: *None*

Access Sequence: *Login to programming mode from your telephone button pad:* Hold ✱#✱#1✱2✱3✱.

At the ***PASSWORD=*** *prompt, Enter your password and press* Hold.

At the ***PROG=*** *prompt enter* 901 *and press* Hold

FB Name	FB	Summary	Value	LCD Prompt
Version Number Active	01	Display Active side software version and installed options. As the name implies, this is the current active software operating the CTX system.	6~31 digits	Installed Version
Version Number Standby (CTX670 only).	02	Display Standby side software version and installed options. This is a software version released prior to the active version. It acts as a backup in the event problems are experienced by the Active version.		Installed Version

1. Press FB01 to view current Strata CTX software version. Press the Scroll or Page key to move the display left or right.
2. Press FB02 to view backup Strata CTX software version.
3. Press Hold, then # # Hold to return to the **PROG=** prompt.
4. Enter another program number to continue programming or press # # Hold again to exit programming mode.

Reading the Version Code

The figure below is an example of the Strata CTX software version code.

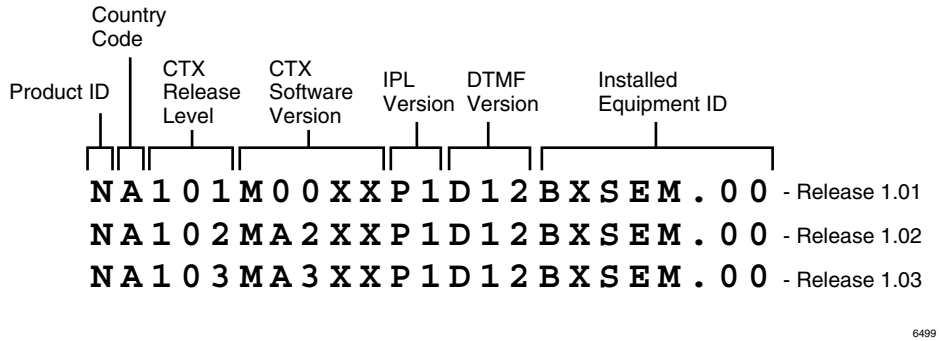

Figure 1-3 Version Code

- **Product ID** – This is the first character in the version code string. “N” designates CTX670 and “S” CTX100.
- **Country Code** – “A” identifies the country (USA, Canada, Mexico).
- **CTX Release Level** – This string of numbers identifies the Strata CTX Release level (NA101=R1.01, NA102=R1.02, NA103=R1.03, etc).
- **CTX Software Version** – This string of characters identifies the current software version. For the example above, the software is called “M00XX, MA2XX, MA3XX, etc,” where XX is the version number.
- **DTMF Version** – This three character string identifies the existence of DTMF and ABR circuits and the version. The “D” designation indicates that DTMF is being applied to the Strata CTX while “09” indicates the DTMF version number.
- **Installed Equipment ID** – There are five characters, each referencing a unique equipment identification value assigned to hardware installed in your Strata CTX system. If the particular hardware is not installed a “-” displays. The following are the equipment identifier designations.
  - B ñ BBMS is installed.
  - X ñ BEXS is installed.
  - S ñ BSIS is installed.
  - E ñ The Ethernet is installed.
  - M ñ The Modem is installed.

Set Time and Date

This program enables you to change the system clock in Strata CTX.

Program Number(s): 902

Prerequisite Program: *None*

Reference: *None*

Access Sequence: *Login to programming mode from your telephone button pad:*
Hold ✱#✱#1✱2✱3✱.

*At the **PASSWORD=** prompt, Enter your password and press* Hold.

*At the **PROG=** prompt enter* 902 *and press* Hold.

FB Name	FB	Summary	Value	LCD Prompt
Date	01	Enter current system date in this field.	yymmdd format yy = current year mm = current month dd = current day	DATE=
Time	02	Enter the current time in this field.	hhmmss format hh = current hour mm = current minute ss = current second	TIME=

1. Press FB01 to enter current Strata CTX Date. See table above for format.
2. Press Hold to program.
3. Press FB02 to enter current Strata CTX time. See table above for format.
4. Press Hold to program.
5. Press Hold to submit, then # # Hold to return to the **PROG=** prompt.
6. Enter another program number to continue programming or press # # Hold again to exit programming mode.

Event Trace Control

This program enables you to trace message events occurring in Strata CTX.

Program Number(s): 903

Prerequisite Program: *None*

Reference: *Install SmartMedia card*

Access Sequence: *Login to programming mode from your telephone button pad:*
Hold ✱#✱#1✱2✱3✱.

*At the **PASSWORD=** prompt, Enter your password and press* Hold.

*At the **PROG=** prompt enter* 903 *and press* Hold.

FB Name	FB	Summary	Value	LCD Prompt
Trace State	01	Enter 1 or 2 to Start or Stop Message Trace. Stopping the trace outputs data to the SmartMedia card. Wait for the PROG= prompt on the LCD before proceeding. Before removing the SmartMedia card run Program 908. See ìFormat/Unmount SmartMediaî on page 1-105.	1:Start 2:Stop	1:START 2:STOP
Trace Size	02	Set the trace data size. Toshiba recommends leaving this parameter at the default setting which provides approximately 15 minutes of trace data.	1~256 (in bytes) 1 unit = 16 bytes. default = 2	SIZE=
Trace Category	03	Trace data type to be stored.	1:Call Processing 2:Maint and Admin 3:Both of the above	1.CP 2.M&A 3.CP+M&A (default)

1. Press FB01 to enable Start or Stop trace. Use the number key pad to make your selection.
2. Press Hold.

Notes

- Start indicates the trace was previously started and is currently running.
- Stop indicates the trace is not running and all trace buffer data was transferred to SmartMedia.

3. Press FB02 to enter trace file size. To change the setting, use the number Dial Pad.
4. Press Hold.
5. Press FB03 to set trace category. To view setting options, press the Scroll or Page button.
6. Press Hold twice to execute. Wait for the **PROG=** prompt to display before proceeding.
7. Enter another program number to continue programming or press # # Hold again to exit programming mode.

Note When CTX 670 stops logging data, it automatically sends data to the SmartMedia card. A new trace file is stored on SmartMedia under the **Evnttrace** directory. Run the Unmount command (Program 908) before removing the SmartMedia card to ensure complete data transfer.

ISDN Trace Location

This program enables set up of ISDN protocol event trace collection conditions.

Program Number(s): 904

Prerequisite Program: *None*

Reference: *None*

Access Sequence: *Login to programming mode from your telephone button pad:* Hold ✱#✱#1✱2✱3✱.

*At the **PASSWORD=** prompt, Enter your password and press* Hold.

*At the **PROG=** prompt enter* 904 *and press* Hold.

*At the **EQUIP=** prompt enter the Shelf, Slot and Port numbers.*

Notes

- Shelf, Slot and Circuit number is entered in "XXYYZZ" format where Shelf is a two digit value from 01~07 corresponding to the Strata CTX Cabinet number, Slot is a two digit value from 01~10 corresponding to the Strata CTX Cabinet's PCB slot number and Circuit is a two digit value from 01~04 corresponding to the Strata CTX PCB Slot's circuit number.
- Always use circuit 01 for RPTU.

FB Name	FB	Summary	Value	LCD Prompt
LLCI	01	Level of collecting LLCI values.	1:None (no information) 2:Brief (important information) 3:Detailled (all information)	1:NON 2:BRIEF 3:DETAILED
Layer 3	02	Level of collecting Layer 3 messages.		
Layer 2 and 3	03	Level of collecting Layer 2 and Layer 3 messages.		
State Transitions	04	Level of collecting State Transitions.		
Errors	05	Level of collecting errors.		
Layer 2 States	06	Level of collecting Layer 2 States.		

1. Press FB01 to run a LLCI Trace. Press the Scroll or Page button to view Non, Brief, or Detailed options. Enter 1~3 to determine Trace Level.
2. Press FB02 and set CCL3 Trace Level. Press the Scroll or Page button to view Non, Brief, or Detailed options. Enter 1~3 to determine Trace Level.
3. Press FB03 and set L2L3 Trace Level. Press the Scroll or Page button to view Non, Brief, or Detailed options. Enter 1~3 to determine Trace Level.
4. Press FB04 and set STATE Trace Level. Press the Scroll or Page button to view Non, Brief, or Detailed options. Enter 1~3 to determine Trace Level.
5. Press FB05 and set ERRORS Trace Level. Press the Scroll or Page button to view Non, Brief, or Detailed options. Enter 1~3 to determine Trace Level.
6. Press FB06 and set L2 Trace Level. Press the Scroll or Page button to view Non, Brief, or Detailed options. Enter 1~3 to determine Trace Level.
7. Press Hold to execute.
8. Press # # Hold to return to the **PROG=** prompt.
9. Enter another program number to continue programming or press # # Hold again to exit programming mode.

All ISDN Trunk Trace

Program start/stop of packaged detailed collection of event trace functions. This program is only available in the telephone button programming mode.

Program Number(s): 905

Prerequisite Program: *"Format/Unmount SmartMedia" on page 1-105, "ISDN Trace Location" on page 1-102, "ISDN Trace Location" on page 1-102 and "Event Trace Control" on page 1-100*

Reference: *Install SmartMedia card*

Access Sequence: *Login to programming mode from your telephone button pad:* Hold ✱#✱#1✱2✱3✱.

*At the **PASSWORD=** prompt, Enter your password and press* Hold.

*At the **PROG=** prompt enter* 905 *and press* Hold.

FB Name	FB	Summary	Value	LCD Prompt
Trace All ISDN Trunks	01	Output All ISDN Trunk Events to SmartMedia.	1:On (default) 2:Off	1:ON 2:OFF

1. Press FB01.
2. Select 1, or 2 to turn on or off.
3. Press Hold twice to execute.
4. Press # # Hold to return to the **PROG=** prompt.
5. Enter another program number to continue programming or press # # Hold again to exit programming mode.

Event Trace Side Change

This program enables you to manage your ISDN protocol trace. This program is only available in the telephone button programming mode.

Program Number(s): 906

Prerequisite Program: *"Format/Unmount SmartMedia" on page 1-105*

Reference: *Install SmartMedia card*

Access Sequence: *Login to programming mode from your telephone button pad:* Hold ✱#✱#1✱2✱3✱.

*At the **PASSWORD=** prompt, Enter your password and press* Hold.

*At the **PROG=** prompt enter* 906 *and press* Hold.

FB Name	FB	Summary	Value	LCD Prompt
Side Change	01	Enter desired parameter number.	1:Message 2:ISDN 3:Message+ISDN	1:MESSAGE 2:ISDN 3:MESSAGE+ISDN

1. Press FB01.
2. Select 1, 2, or 3 to select parameter.
3. Press Hold to execute.
4. Press # # Hold to return to the **PROG=** prompt.
5. Enter another program number to continue programming or press # # Hold again to exit programming mode.

Note When the CTX 670 stops logging data, it automatically sends data to the SmartMedia card. Run the Unmount command (Program 908) before removing the SmartMedia card to ensure complete data transfer.

System Admin Log

Use this command to Start/Stop the System Admin Log.

Program Number(s): 907

Prerequisite Program: *None*

Reference: *Install SmartMedia card*

Access Sequence: *Login to programming mode from your telephone button pad:*
Hold ✱#✱#1✱2✱3✱.

*At the **PASSWORD=** prompt, Enter your password and press* Hold.

*At the **PROG=** prompt enter* 907 *and press* Hold.

FB Name	FB	Summary	Value	LCD Prompt
Admin Log On/Off	01	Enter 1 or 2 to Start or Stop Admin Log.	1:Start 2:Stop	1:START 2:STOP

1. Press FB01. To run System Admin Log press 1 Hold (twice). You are sent to the **PROG=** prompt.
2. To Stop the log, press FB01 and press 2 on the dial pad.
3. Press Hold twice and wait for the PROG**=** prompt to appear before proceeding.

Note When the CTX 670 stops logging data, it automatically sends data to the SmartMedia card. Run the Unmount command (Program 908) before removing the SmartMedia card to ensure complete data transfer.

Format/Unmount SmartMedia

This program enables Administrators to format a SmartMedia card from Strata CTX WinAdmin or the telephone button pad.

Note Strata CTX WinAdmin cannot view SmartMedia files directly. Additional hardware is required to view the contents of the SmartMedia card.

Program Number(s): 908

Prerequisite Program: *None*

Reference: *None*

Access Sequence: *Login to programming mode from your telephone button pad:*
Hold ✱#✱#1✱2✱3✱.

*At the **PASSWORD=** prompt, Enter your password and press* Hold.

*At the **PROG=** prompt enter* 908 *and press* Hold

.

FB Name	FB	Summary	Value	LCD Prompt
Control	01	Choose SmartMedia card formatting method: **Normal** ñ creates any Strata CTX SmartMedia directory that does not exist already. Exiting directories are not overwritten by this procedure. **Forced** ñ erases any existing directories and files. All existing data is overwritten. See Strata CTX SmartMedia Directories for more information. **Unmount** ñ writes data into SmartMedia Card. Always run unmount before removing the SmartMedia card to prevent damage to the card. **Transfer** ñ writes data from static RAM to SmartMedia Card.	1:Normal 2:Forced 3:Unmount 4:Transfer	1:NORMAL 2:FORCED 3:UNMOUNT 4:TRANSFER

1. Press FB01 to enter parameter. Enter 1~4 as your command choice. Press the Scroll or Page button to make your selection.
2. Press Hold to confirm and Hold again to execute.
3. Wait for the **PROG=** prompt to appear before proceeding.
4. Enter another program number to continue programming or press # # Hold again to exit programming mode.

Strata CTX SmartMedia Directories

Running the Normal and Forced options of this program creates five directories on the SmartMedia card as follows:

- **Admlog** – The Admlog folder saves
- **Errlog** – System error logs are saved into this folder.
- **Evnttrce** – Strata CTX WinAdmin Event Trace files are saved into this folder.
- **Progdata** – Your Strata CTX programmed settings are all saved in this folder.
- **Program** – The operating software and default data of the Strata CTX is saved in this folder.

When a backup is performed, Strata CTX saves programmed data to the **`Progdata`** folder.

MAC Address (System Serial Number)

This program enables you to display your CTX 670 System Serial Number.

Program Number(s): 909

Prerequisite Program: *None*

Reference: *None*

Access Sequence: *Login to programming mode from your telephone button pad:*
Hold ✱#✱#1✱2✱3✱.

*At the **PASSWORD=** prompt, Enter your password and press* Hold.

*At the **PROG=** prompt enter* 909 *and press* Hold.

FB Name	FB	Summary	Value	LCD Prompt
MAC Address	01	Display System Serial Number.	12 digits	MAC Address

1. Press FB01 to view parameter. The MAC Address is view only and cannot be changed.
2. Press Hold (twice) to exit to the PROG**=** prompt.
3. Enter another program number to continue programming or press # # Hold again to exit programming mode.

Data Backup

This program enables you to Back up system data to a SmartMedia card.

Program Number(s): 910

Prerequisite Program: *"Format/Unmount SmartMedia" on page 1-105*

Reference: *None*

Access Sequence: *Login to programming mode from your telephone button pad:*
Hold ✱#✱#1✱2✱3✱.

*At the **PASSWORD=** prompt, Enter your password and press* Hold.

*At the **PROG=** prompt enter* 910 *and press* Hold.

FB Name	FB	Summary	Value	LCD Prompt
Backup Function	01	Start and Stop system backup. **Note** Restore function is not operational and should never be executed. Use System Initialize (Program 900) Level 1 to restore system backup.	1:Backup 2:Restore (Do not use. See Note on left). 3:Cancel	1:BACKUP 2:RESTORE 3:CANCEL
Numbers	02	The number of data blocks. This number varies depending on the amount of programming the system contains.	Variable	ALL NO=
Current Number	03	This number increments as the backup progresses. When the backup is complete this number should match the total number of data blocks displayed in Numbers (FB02).	Variable	CUR NO=

FB Name	FB	Summary	Value	LCD Prompt
Backup State	04	**All_Ok** ñ Backup completed with no errors. **Partial_Ok** ñ Backup has completed with errors. **NG** ñ Backup has failed. **Cancel** ñ Cancel Backup. **Importing** ñ Program data is being restored. **Exporting** ñ Program data is being sent out.	1:normal end all 2:normal end part 3:abnormal end 4:cancel 5:importing 6:exporting	

Note Before running this program, make sure the SmartMedia card is properly formatted. See ìFormat/ Unmount SmartMediaî on page 1-105 for more details.

1. Press FB01 to enter your Backup choice. Press the Scroll or Page button to view your selection options.
2. Press 1. FB01 and FB04 should blink green.
3. Press Hold to execute. Press Hold again to Cancel. This program stops running if you exit programming mode from your telephone.

➤ **To view Backup progress**

1. While the program is running (FB01 and FB04 blink green), press FB02 to view the total number of files to be transferred.
2. Press FB03 to view the current file number that is being transferred.
3. The Backup is complete when FB04 blinks intermittently.
4. To verify success, push FB04. Your telephone LCD should indicate ***1.ALL_OK**.
5. Press # # Hold to exit.

Note Do not press the Hold button. Pressing the Hold button restarts the Backup procedure.

To Restore data from the SmartMedia card to Strata CTX, see ìSystem Initializeî on page 1-97.

Program Update

This program enables you to update the Strata CTX programs.

Program Number(s): 911

Prerequisite Program: *Format SmartMedia Card*

Reference: *None*

Access Sequence: *Login to programming mode from your telephone button pad:*
Hold ✱#✱#1✱2✱3✱.

*At the **PASSWORD=** prompt, Enter your password and press* Hold.

*At the **PROG=** prompt enter* 911 *and press* Hold.

FB Name	FB	Summary	Value	LCD Prompt
Update Function	01	Enter 1 or 2 to identify the type of Update intended. Select 3 to cancel a running update.	1:Update 2:Reboot 3:Cancel	1:Update 2:Reboot 3:Cancel
Total Blocks	02	View total blocks to be updated (total blocks will vary depending on software versions).	0~65536 (CTX670) 0~128 (CTX100) default = 0	n/a
Copied Blocks	03	View number of blocks copied.	0~65536 (CTX670) 0~128 (CTX100) default = 0	n/a
Active Side Status	04	Backup Type Display	1:Normal 2:Trial 3:Fault 4:Donít Care 5:Error	1:Normal 2:Trial 3:Fault 4:Donít Care 5:Error
Stand by Side Status	05	Stand by Backup Type	1:Normal 2:Trial 3:Fault 4:Donít Care 5:Error	1:Normal 2:Trial 3:Fault 4:Donít Care 5:Error
Active Side Number	06	Active Side Number.	0 or 1 default = 0	ACT SIDE=
Status	07	View Backup Status.	1:Idle 2:Running 3:Success 4:Error	1:Idle 2:Running 3:Success 4:Error

Note Before running this program, make sure the SmartMedia card is properly formatted. See ìFormat/ Unmount SmartMediaî on page 1-105 for more details.

1. Press FB01 to enter your Backup choice. Press the Scroll or Page button to view your selection options.
2. Press 1. FB01 and FB04 should blink green.
3. Press Hold to execute. Press Hold again to Cancel. This program stops running if you exit programming mode from your telephone.

Make Busy Control

When an error occurs in hardware resources used for a station or a line fails, this feature makes them busy. The station or line PCB can be disabled temporarily to perform maintenance or parts replacements as well. This program is only available in the telephone button programming mode.

Program Number(s): 912

Prerequisite Program: *Format SmartMedia Card*

Reference: *None*

Access Sequence: *Login to programming mode from your telephone button pad:*
Hold ✱#✱#1✱2✱3✱.

*At the **PASSWORD=** prompt, Enter your password and press* Hold.

*At the **PROG=** prompt enter* 912 *and press* Hold.

*At the **CABINET=** prompt enter the Shelf number.*

Note The Shelf number is entered in ìXXî format where Shelf is a two digit value from 01~07 corresponding to the Strata CTX Cabinet number. See ìProgram Button LEDsî below for a description of the LED display.

FB Name	FB	Summary	Value	
Equipment	00	Enter Cabinet Number	01~07 (value=xx)	
Slot #1	01	Enter 1 or 2	1: Set make busy 2: Clear make busy	
Slot #2	02			
Slot #3	03			
Slot #4	04			
Slot #5	05			
Slot #6	06			
Slot #7	07			
Slot #8	08			
Slot #9	09			
Slot #10	10			

1. Press FB01~FB10 to enter your Make Busy selection for the appropriate Slot in the Cabinet entered in Access Sequence above.

Note The slot to which your programming phone is connected can not be set to Make Busy.

2. Press Hold to execute.
3. Press Hold again to return to **CABINET=** prompt.
4. Press # # Hold to return to the **PROG=** prompt.
5. Enter another program number to continue programming or press # # Hold again to exit programming mode.

Program Button LEDs

The LED blink pattern indicates the following:

- Red continuous blinking – PCB experienced a Make Busy status error.
- Red continuous illumination – PCB Make Busy Status mode is on.
- Green continuous blinking – PCB Make Busy Status mode is stand by.
- Green intermittent blinking – PCB Make Busy Status mode is idle.

Regional Selection

Set Operating region for your Strata CTX. This assignment sets built-in core LSI hardware parameters that are not changeable with jumpers or switches. These parameters must be set unique for each country and affect system operation.

Program Number(s): 915

Prerequisite Program: *None*

Reference: *None*

Access Sequence: *Login to programming mode from your telephone button pad:* Hold ✱#✱#1✱2✱3✱.

*At the **PASSWORD=** prompt, Enter your password and press* Hold.

*At the **PROG=** prompt enter* 915 *and press* Hold.

FB Name	FB	Summary	Value	LCD Prompt
Region	01	Set region number. 0~2 are valid entries for North American Operations.	0~31 (USA = 0, Canada = 1, and Mexico = 2).	REGION=

1. Press FB01. Enter 0~2. Press Hold.
2. Press Hold (twice).
3. Enter another program number to continue programming or press # # Hold again to exit programming mode.

IP Configuration

This program enables you to set up Network Communication Protocols.

Program Number(s): 916

Prerequisite Program: *None*

Reference: *None*

Access Sequence: *Login to programming mode from your telephone button pad:*
Hold ✱#✱#1✱2✱3✱.

*At the **PASSWORD=** prompt, Enter your password and press* Hold.

*At the **PROG=** prompt enter* 916 *and press* Hold.

FB Name	FB	Summary	Value
IP Address	01	Enter IP Address 1. 192 = First IP Address Octet 168 = Second IP Address Octet 254 = Third IP Address Octet 253 = Fourth IP Address Octet	0~255 default = 192.168.254.253
Subnet Mask	02	Enter Subnet Mask Address 1.	0~255 default = 255.255.255.0
Default Gateway	03	Enter Default Gateway 1.	0~255 default = 0.0.0.0

Notes

- The LCD only displays three of the twelve IP address digits at a time. Press the Spkr button to view the remaining digits.
- The IP Address is the static IP address of the Strata CTX processor NIC/Ethernet connection only. The PPP IP address for the Strata CTX processor modem is always 192.168.255.254 and cannot be changed.

1. Press FB01 to view the current TCP/IP Address 1 (press FB02 to view the current Subnet Mask Address 1, or press FB03 to view Default Gateway Address 1).

   Press Hold.
2. Enter first IP Address Octet. To keep current setting go to Step 3.
3. Press Spkr button and enter second IP Address Octet. To keep current setting go to Step 4.
4. Press Spkr button and enter third IP Address Octet. To keep current setting go to Step 5.
5. Press Spkr button and enter fourth IP Address Octet. To keep current setting go to Step 6.
6. Press Hold.
7. Press FB02 to configure the remaining parameters.
8. Press Hold.
9. After all parameters are entered press Hold to submit the new settings.
10. You are automatically returned to the **PROG=** prompt.
11. Enter another program number to continue programming or press # # Hold again to exit programming mode.

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System Error Codes 2

The following Error Code Tables are needed when programming Strata CIX and CTX systems using the button programming method. Error Codes display on the programming station LCD.

Note The following error codes only appear when using the telephone button programming method. These tables are provided for reference only.

Common Error Code Table

Program	Code	Error Descriptions
Common	1	Invalid Program number.
	2	Invalid value.
	3	Invalid parameter designation • Input parameter range error. • Required sub-parameter data was not entered.
	4	Invalid FB button pressed.
	5	The time allotted to enter a modification in the desired field has been exceeded.
	6	Invalid parameter entry • Incorrect characters entered • Input method is wrong
	7	Some settings carried out using the range function may not have been programmed correctly.
	16	Identification error
	17	Required parameter is not entered.
	18	Required parameter does not exist.

System Programming Error Codes

Program	Code	FB	Sub-parameter	Error Descriptions
100	33	FB00		The entered Cabinet/Slot value is out of range.
	33	FB01		The entered PCB Type is out of range.
	33	FB01		In CTX100, the Card Type Code other than ASTU (STU) was assigned into S109.
	33	FB01		In CTX670, the equipment entered is S109 or S110. In CTX100, the equipment entered is S110.
	49	FB01		Deleting a Card (000) ñ Programmed station and/or trunk data must be deleted before a card can be deleted.
	49	FB01		Changing Card Type Code ñ Card Type cannot be changed. Delete the existing Card Type before entering a new Card Type.
	49	FB01		The designated BIOU is already in use.
	49	FB01		IOU card cannot be deleted because the Control Relay is assigned to that card.
	49	FB01		The PCB cannot be assigned to the designated equipment position.
	49	FB01		ì004î is not assigned as Card Type Code.
	50	FB01		One of the required parameters (PCM Highway, BDKU Type or TEI Assignment) has not been assigned.
	50	FB02		The PCM highway value entered is not applicable for the desired PCB assignment. PCB parameters are required for PDKU or BDKU, RDTU, RDSU, RPTU.
	50	FB03		The Channel Type value entered is not applicable for the desired PCB assignment. PCB parameters are required for PDKU or BDKU, RDTU, RDSU, RPTU.
	50	FB04		The TEI Type value entered is not applicable for the desired PCB assignment. PCB parameters are required for PDKU or BDKU, RDTU, RDSU, RPTU.
	54	FB01		The number of MF2U cards exceeds the system limit.
102	33	FB01		The entered Feature Code is out of range.
	33	FB02		The OLG entered is out of range.
	49	FB02		An invalid OLG number was entered in OLG Number field when assigning a Flexible Numbering Feature code of 551.
	50	FB02		ì0î is not a valid OLG Number.
	51	FB00		Flexible Numbering Plan values cannot be repeated. The value entered cannot be registered (e.g., If 1234 is registered, 123 cannot be registered).
	52	FB00		The value entered conflicts with an existing extension and cannot be registered.
103	-	-		See ìCommon Error Code Tableî on page 2-1.

Program	Code	FB	Sub-parameter	Error Descriptions
104	-	-		See ìCommon Error Code Tableî on page 2-1.
105	33	FB21~FB22		The entered Clock value is out of range.
	33	FB13		The Paging Group No. entered is out of the range.
	49	FB12 FB18		The BIOU general relay number value conflicts with existing parameter assignments.
	49	FB21~FB22		The entered circuit number is not the clock source port.
	80	FB12		The Paging Group No. entered does not exist in the system.
106	-	-		See ìCommon Error Code Tableî on page 2-1.
107	33	FB00~FB01		The entered Pad device number is invalid.
	96	FB01~FB02		The number of Pad groups exceed the system capacity.
108	33	FB00		The entered Device Type is out of range.
	33	FB01		The PAD group entered is out of the range.
	80	FB00		The Device number entered does not exist in the system.
109	33	FB08~FB16		The entered equipment is out of range.
	49	FB08~FB16		The equipment which the card type was assigned was not entered.
	50	FB08~FB16		The entered equipment is registered as MOH already.
	80	FB01~FB07		A BIOU circuit with other data such as door phone, etc. is assigned in MOH/BGM 1~7.
	80	FB08~FB16		A circuit with a non-STU circuit is designated in MOH/BGM 8~16.
110	16	-		Identification error: A super user password cannot be checked if you are logged in with a general user level password.
111	-	-		See ìCommon Error Code Tableî on page 2-1.
112	33	FB00		The entered date is out of range.
	98	-		Allowable number of Working Day Type has been exceeded.
113	33	FB01~FB09		The entered time value is out of range.
114	-	-		See ìCommon Error Code Tableî on page 2-1.
115	-	-		See ìCommon Error Code Tableî on page 2-1.
116	33	FB01		The Program Number entered is invalid.
117	32	FB00		An invalid character exists in the entered value.
	51	FB00		The inputted analysis number is using in a part of the other analysis number.
118		FB01		Incorrect Master ID code.
119		-		Common error. See Common Error Code table.
150	32	FB09		Incorrect value. The values should be numerals only.

Program	Code	FB	Sub-parameter	Error Descriptions
151	19	FB01		Unable to change the selected BIPU configurations during updates of selected BIPUs or IPTs to prevent the flash memory of BIPU from being broken.
	33	FB00		The equipment number entered is out of the range.
	49	FB00		Slot card type entered is other than BIPU card.
	52	FB01		The IP address entered is a global IP address already assigned to CTX or another BIPU. This restriction is only applied to the duplication of global IP addresses.
152	33	FB01		You cannot use 1:10msec in this release.
153	-	-		Common error. See Common Error Code table.

Station Programming Error Codes

Program	Code	FB	Sub-parameter	Error Descriptions
200	33	FB01		The entered Shelf/Slot/Circuit value is out of range.
	33	FB12		The entered System Call Forward index is out of the range.
	49	FB01		The selected PDN(s) conflicts with an existing PDN(s) assignments for the selected circuit.
	49	FB02		Station Type cannot be changed.
	49	FB15 FB22		The desired DN does not exist.
	51	FB00		The entered value conflicts with an existing numbering scheme.
	52	FB00		The entered value conflicts with an existing ISDN assignment etc.
	54	FB00		The quantity of lines, ISDN channels and PDNs entered exceeds the number of ports licensed with this processor.
	80	FB00		The DN does not exist.
	80	FB01		A PCB without ìDKT/SLT setting allowedî is designated for a PCB connecting the selected ISDN extensions.
	96	FB00		The allowed number of extensions has been exceeded.
	98	FB35		The quantity of station speed dial bins entered exceeds the system's capacity.
201	50	-		The DN entered is the DN that is used as the administration terminal. FB which this error occur : FB01
	51	FB01		The entered number is not the extension number.
	52	FB01		The entered number is not the extension number.
	80	FB01		The entered value is not a valid extension.
202	33	FB01		The equipment number entered is out of the range.
	49	FB01		PCB assignment is not set for the ISDN card connecting selected extensions.
	49	FB01		The entered equipment is using as other ISDN extension.
	49	FB02		An ISDN trunk channel group conflict has been detected.
	49	FB02		Although the P-P connection was selected, an additional DN is registered.
	49	FB26~FB32		The desired value conflicts with existing ISDN extensions.
	51	-		The Primary DN entered conflicts with a value of an existing numbering scheme.
	51	FB00, FB26 ~FB32		The desired value conflicts with existing number schemes.
	52	FB00		A DN used for DKT extensions is designated.

Program	Code	FB	Sub-parameter	Error Descriptions
202	52	FB26~FB32		The additional ISDN extension number cannot be registered. The number is already in use by a DKT extensions, etc.
	54	FB00		The quantity of lines, ISDN channels and PDNs entered exceeds the number of ports licensed with this processor.
	80	FB00		The DN entered is invalid.
	80	FB01		A PCB without ISDN extension settings allowed' is designated for the PCB connecting the ISDN extension(s) selected.
	96	FB02		The number of channel group exceeds the system capacity when ISDN station is registered.
	96	FB00		The quantity of lines, ISDN channels and PDNs entered exceeds the number of ports licensed with this processor.
	98	FB35		The quantity of station speed dial bins entered exceeds the system's capacity.
203	33	FB01		The new DN is not assigned.
	49	FB01		The new DN value conflicts with an existing value DN, PhDN, etc.
	51	-		The Primary DN entered conflicts with a value of an existing numbering scheme.
	51	FB01		The new DN value conflicts with an existing numbering scheme value.
	52	FB00		The new DN value conflicts with existing group extensions.
	80	FB00		The new DN value does not exist.
204	33	FB17		The Call History memory size entered is wrong.
	49	FB01		The number of attendant consoles exceed the number specified in the system.
	52	FB00		DKT is not assigned to DN (ISDN, etc.).
	80	FB00		The DN entered is an extension number that does not exist.
	98	FB04		Allowable Feature Button number is exceeded.
	98	FB17		Allowable Call History Memory size is exceeded.
205	33	FB01	100 110 120 130 140	Sub-parameters must be assigned.
	33		120	The line number entered is out of range for the system's capacity.
	33		130	The GCO key group/index entered is out of the range.
	33		140	The POOL group entered is out of the range.
	33		530	The BGM number entered is out of the range.

Program	Code	FB	Sub-parameter	Error Descriptions
205	33		540	The door lock number entered is out of the range.
	33		900	The application number entered is out of the range.
	48	-		Required parameter for each Feature Code is not entered.
	49	FB01	110	Two or more PhDNs with the same value are registered to one extension.
	49	FB01	700 790 800 810 820 830	Only Feature Code(s) allowed for Attendant Console is registered.
	49	FB01	610	Two or more DSSs with the same value are registered to one extension.
	49	FB01	120 130 560 610	While assigning sub-parameters to a DN: A DN was selected that does not exist in the system.
	51	FB01		The Primary DN entered conflicts with a value of an existing numbering scheme.
	51		110	The Primary DN entered conflicts with a value of an existing numbering scheme.
	51	FB01	120 130	When assigning an Owner DN to a CO or GCO, the related CO or GCO buttons are not assigned to the respective FB(s) of the owner's extension.
	52			The Primary DN entered conflicts with a value of an existing numbering scheme.
	52	FB01	110	The Secondary/PhDN entered is already used in ISDN extenstion(s), etc.
	52	FB01	120 130	The CO or GCO Owner DN entered does not exist.
	80	FB00		The PrimeDN does not exist in the system.
	82	-		The sub-parameter values assigned to the FB are invalid.
	82		120	The line number entered does not exist.
	96	-	110 130 140	The maximum allowable value for GCO, POOL, or PhDN has been exceeded.
	98	FB01 FB04		The quantity of Flexible keys programmed exceeds the system's capacity.

Program	Code	FB	Sub-parameter	Error Descriptions
206	33	FB05		The System Call Forward index entered is out of the range.
	49	FB01 FB04		An invalid DN was selected. The entered PDN is not related to this Phantom DN.
	51	-		Phantom DN entered is invalid (the entered value is used as a part of an existing extension number or numbering plan).
	51	FB00 FB01 FB14		An invalid DN was selected (the entered value is used as a part of an existing extension number or numbering plan).
	52	-		The Phantom DN entered conflicts with an existing DKT extension.
	52	FB00 FB04		The entered DN conflicts with an existing DKT extension, or numbering plan, etc.
	80	FB00		A Phantom DN that does not exist in the system has been selected.
207	33	FB05		The feature key entered is not a ìSingle Touch Buttonî.
208	51	FB00		An invalid DN was selected (the entered value is used as a part of an existing extension number or numbering plan).
	52	FB00		The entered DN conflicts with an existing numbering plan.
	80	FB00		The DN entered is an extension number that does not exist in the system.
209	33	FB05		The System Call Forward index entered is out of the range.
	49	FB01		If Hunt Method field is set to Distribute, the incoming destination Pilot Number must be assigned.
	50	FB02		If Hunt Method is set to Distribute, Pilot Number must be assigned.
	51	FB02		The entered value conflicts with an existing number or numbering plan.
	52	FB02		The entered value conflicts with an existing DKT extension.
	80	FB00		The designated Hunt Group number does not exist in the system.
	96	FB00		The assigned Hunt Group number, exceeds the system capacity.
210	51	FB00		The entered DN does not exist in the system (The entered value is used in an extension number or numbering plan).
	52	FB00		The entered value is used in the numbering plan.
	80	FB00		The entered Prime DN does not exist in the system.
	96	-		The Pickup group number entered is out of the range for the system's capacity.
211	80	-		The hunting group number entered (FB00) is a number that does not exist in the system.

Program	Code	FB	Sub-parameter	Error Descriptions
213	33	FB01	100 110 120 130 140	The sub-parameters for Feature Code (Key Number) must be assigned.
	33	-	120	The line number entered is out of range for the system's capacity.
	33	-	130	The GCO key group/index entered is out of the range.
	33	-	140	The POOL group entered is out of the range.
	33	-	530	The BGM number entered is out of the range.
	33	-	540	The door lock number entered is out of the range.
	33	-	900	The application number entered is out of the range.
	48	-		Essential sub-parameter values must be entered.
	49	FB01	110	Two or more PhDNs with the same value are registered to one extension.
	49	FB01	700 790 800 810 820 830	The feature code(s) allowed to attendant console only is registered.
	49	FB01	610	Two or more DSSs with the same value are registered to one extension.
	49	FB01	120 130 560 610	The entered DN does not exist in the system.
	51	-		The Prime DN entered conflicts with a value of an existing numbering scheme.
	51	FB01	110	The secondary/PhDN entered cannot be registered. The number conflicts with an existing number scheme.
	51	FB01	120 130	When setting an owner extension to the additional information of CO, GCO, the said CO, GCO keys are not assigned to the Feature Buttons of the owner extension.
	52	-		The Primary DN entered conflicts with an existing DKT extension.
	52	FB01	110	The secondary/PhDN entered cannot be registered. The number conflicts with an existing ISDN extension(s), etc.
	52	FB01	120 130	The CO or GCO Owner DN entered does not exist.
	80	FB00		The specified Prime DN does not exist in the system.

Program	Code	FB	Sub-parameter	Error Descriptions
213	82	-		The additional information assigned to the Feature Button is invalid.
	82	-	120	The line number entered does not exist.
	96	-	110 130 140	The allowable number of GCO, POOL or PhDn has been exceeded.
	98	-		The quantity of Flexible buttons programmed exceeds the system's capacity.
214	33	FB01~FB08		The equipment number entered is out of the range.
	49	-		The designated circuit is already in use.
	50	-		Multiple DSSs cannot be assigned to the same Shelf/Slot/ Circuit.
	51	-		The entered DN does not exist in the system (the entered value conflicts with an existing extension number or numbering plan).
	52	-		The entered value conflicts with an existing numbering plan.
	80	FB00		The designated Prime DN does not exist in the system.
	80	FB01~FB08		The designated PCB and extension combination is not allowed.
	96	FB01~FB08		The number of DSS consoles entered exceeds the system's capacity.
	98	-		The number of DSS buttons entered exceeds the system's capacity. This error can occur with PB1~PB8
215	33	-		The add-on module number is out of the range.
	33	FB01	100 110 120 130 140	The sub-parameters for Key Number field must be assigned.
	33	-	120	The line number entered is out of range for the system's capacity.
	33	-	130	The GCO key group/index entered is out of the range.
	33	-	140	The POOL group entered is out of the range.
	33	-	530	The BGM number entered is out of the range.
	33	-	540	The door lock number entered is out of the range.
	33	-	900	The application number entered is out of the range.
	48	-		Essential sub-parameter values must be entered.
	49	FB01	110	Two or more PhDNs with the same value are registered to one extension.

Program	Code	FB	Sub-parameter	Error Descriptions
	49	FB01	700 790 800 810 820 830	The feature code(s) allowed to attendant console only is registered.
	49	FB01	610	Two or more DSSs with the same value are registered to one extension.
	49	FB01	120 130 560 610	The entered DN does not exist in the system.
	51			The Primary DN entered conflicts with a value of an existing numbering scheme.
	51	FB01	110	The secondary/phantom DN entered cannot be registered. The number conflicts with an existing number scheme.
	51	FB01	120 130	When setting an owner extension to the additional information of CO, GCO, the said CO, GCO keys are not assigned to the Feature buttons of the owner extension.
	52	-		The Primary DN entered conflicts with an existing DKT extension.
	52	FB01	110	The secondary/PhDN entered cannot be registered. The number conflicts with an existing ISDN extension(s), etc.
	52	FB01	120 130	The CO or GCO Owner DN entered does not exist.
	80	FB00		The specified PrimeDN does not exist in the system.
	82	-		The additional information assigned to the Feature Button is invalid.
	82	-	120	The line number entered does not exist.
	96	-		The allowable number of GCO, POOL or PhDn has been exceeded.
	98	-		The number of Flexible buttons programmed exceeds the system's capacity.
216	51	FB00		The entered DN does not exist in the system (the entered value conflicts with an existing extension number or numbering plan).
	52	FB00		The entered DN conflicts with an existing ISDN extension(s), etc.
	80	FB00		The designated Prime DN does not exist in the system.

Program	Code	FB	Sub-parameter	Error Descriptions
217	33	FB03		The Node ID entered is over maximum digits, or Node ID was not entered.
	51	FB00		The entered DN does not exist in the system (the entered value conflicts with an existing extension number or numbering plan).
	52	FB00		The entered DN is not designated as an ISDN extension in Program 202.
	80	FB00		The designated DN does not exist in the system.
218	49	FB02		
	49	FB02		The DN entered is already assigned to another Hunt Group. A DN can only be in one Hunt Group.
	51	FB02		The entered DN does not exist in the system (the entered value conflicts with an existing extension number or numbering plan).
	52	FB00		The entered DN conflicts with an existing numbering plan.
	80	FB00		The entered Hunt Group number does not exist in the system.
	80	FB02		The entered DN does not exist in the system.
	82	FB00		The number of Hunt Group assignments has exceeded the system capacity.
	96	FB01		The allowable number of Hunt Group member assignments has been exceeded.
	98	FB01		More than 560 DNs are designated for members of one hunting group.
219	33	FB00		The Node ID entered is over maximum digits, or Node ID was not entered.
250	32	FB06		The MAC address entered includes invalid characters. The valid characters are numerals and alphabet A(a) to F(f).
	49	FB02		Despite that ì1:Fixî is selected in FB02, the fixed IP address for this IPT is not registered in the system.
	50	FB03		Despite that ì1:Fixî is selected in FB02, the fixed IP address is not set in FB03.
	51			The DN entered is not an IPT. (This number entered conflicts with a value of an existing numbering plan.) FB which this error occur : FB00
	52			IPT is not assigned to this DN (DKT etc.). FB which this error occur : FB00
	80			The DN entered is an extension number that does not exist in the system. FB which this error occur : FB00
Note For FBs in Program 205, 213 and 215, codes shows the entered Feature Code.				

Trunk Programming Error Codes

Program	Code	Occurred FB	Sub-parameter	Error Descriptions
300	33	FB01		The equipment number entered is out of the range.
	33	FB02		The ILG entered is out of the range.
	33	FB03		The OLG entered is out of the range.
	33	FB12		The hunting order entered is out of the range.
	49	FB01		When modifying previously assigned equipment: • The designated PCB Type does not allow CO trunk assignments. • The designated circuit does not allow CO trunk assignments.
	49	FB02		The ISDN ILG number is designated for analog trunks or the entered ILG number does not exist in the system.
	49	FB02		ì0î was entered in ILG when OLG was not registered.
	49	FB02		The OLG entered is not registered in the system.
	49	FB03		The ISDN OLG number is designated for analog trunks or the entered OLG number does not exist in the system.
	49	FB03		ì0î was entered in OLG when ILG was not registered.
	49	FB02 FB03		A conflict exists between the ILG number and the OLG number trunk type.
	54	FB00		The quantity of lines, ISDN channels and PDNs entered exceeds the number of ports licensed with this processor.
	80	FB00		A trunk number that does not exist in the system has been selected.
	80	FB02		The entered ILG number does not exist in the system.
	80	FB03		The entered OLG number does not exist in the system.
	96	FB00		Allowable number of trunks has been exceeded.
	96	FB00		The line number entered exceeds the system's capacity.
301	33	FB01		The trunk number entered is out of the range.
	80			A trunk number that does not exist in the system has been selected.

Program	Code	Occurred FB	Sub-parameter	Error Descriptions
302	33	FB01		The equipment number entered is out of the range.
	33	FB03		The ILG entered is out of the range.
	33	FB04		The entered OLG is out of the range.
	48	FB07		Dch position is not set to 16. When setting the time slot pattern for a 2048 kbps interface, this value must be set to 16.
	49	FB03		The type of ILG or OLG entered in not an ISDN.
	49	FB04		The ILG or OLG entered does not exist in the system.
	49	FB01		When the equipment is moved, the number of the PCM highway in the moved equipment is different from the current equipment.
	49	-		The ILG entered is not registered in the system. FB which this error occur : FB03
	49	-		The OLG entered is not registered in the system. FB which this error occur : FB03
	49	FB02		When the card type is ìPTU1Fî, the protocol type entered should be ìBellcoreî or ìBellcore Northern Telecomî.
	49	FB02		When the card type is ìPTUî, the protocol type entered is ìETSIî.
	49	FB02		The card type is not ìIPU-Qî when IP is selected.
	49	FB02		The card type is not ìPTUî or ìPTU1Fî when TTC or QSIG is selected.
	49	FB07		When the card type is ìPTU1Fî, the inputted D channel position is not 16.
	49	FB07		D channel position must assign ì0î when the card type is ìIPU-Qî.
	49	FB07		D channel position must not be assigned ì0î when the card type is not ìIPU-Qî.
	50	FB24		The T-Wait Timer can only be enabled if the Protocol is set to National ISDN.
	52	FB00		The entered Channel Group conflicts with an existing ISDN extension(s), etc.
	54	FB00		The quantity of lines, ISDN channels and PDNs entered exceeds the number of ports licensed with this processor.
	80	FB00		The entered Channel Group number does not exist in the system.
	80	FB01		An ISDN trunk cannot be assigned to the designated Shelf/ Slot/Circuit.
	80	FB03		The designated ILG does not exist in the system.
	80	FB04		The designated OLG does not exist in the system.
	96	FB00		The number of allowable Channel Groups has been exceeded when a new ISDN trunk assignment is made.

Program	Code	Occurred FB	Sub-parameter	Error Descriptions
303	33	FB01		The channel group entered is out of the range.
	52	FB01		The entered Channel Group number conflicts with an existing ISDN extension(s).
	80	FB01		The entered Channel Group number does not exist.
304	49	FB01 FB02		The Group Type and Trunk Type are assigned based on the ILG settings found in ILG field of Program 300 and in ILG field of Program 302.
	49	FB06		The entered Pool Key Number cannot be assigned. It belongs to another ILG number.
	49	FB05		The entered GCO Key Number cannot be assigned. It belongs to another ILG number.
	49	FB11		The digit of DID number cannot change when DID number is already registered.
	80	FB00		The entered ILG does not exist in the system.
	96	FB05 FB06		The allowable number of GCO or POOL Key Number has been exceeded.
	96	FB00		The number of ILGs exceed the system capacity.
305	33	FB01		The ILG entered is out of the range.
	49	FB01		The entered ILG number cannot be deleted. Trunk relationships assigned in Programs 300 and 302 must deleted first.
	80	FB01		The entered ILG does not exist in the system.
306	49	FB01 FB02		The Group Type and Trunk Type are assigned based on the OLG settings found in ILG field of Program 300 and in ILG field of Program 302.
	49	FB06 FB07		The entered Pool Key Number cannot be assigned. It belongs to another OLG number.
	49	FB04		The entered GCO Key Number cannot be assigned. It belongs to another ILG number.
	80	FB00		The entered OLG does not exist in the system.
	96	FB00		The allowable number of OLG Group Number has been exceeded.
	96	FB04 FB06 FB07		The allowable number of GCO or POOL Key Number has been exceeded.
307	33	FB01		The OLG entered is out of the range.
	49	FB01		The entered OLG number cannot be deleted. Trunk relationships assigned in Programs 300 and 302 must be deleted first.
	80	FB01		The entered OLG does not exist in the system.

Program	Code	Occurred FB	Sub-parameter	Error Descriptions
308	33	FB00		The entered equipment value is invalid.
	33	FB03		Wrong assignment intervals.
	80	FB00		The designated trunk equipment does not exist in the system.
309	33	FB15		The pause assignment is wrong.
	48	FB05 ~ FB10		No incoming destination number is entered for the parameter required.
	49	FB00		The entered DID conflicts with an existing wild card PCB. The allowable number of DID assignments including a wild card PCB is exceeded.
	49	FB03		The selected GCO conflicts with an existing ILG number.
	49	FB04		The selected Pool Line Group conflicts with an existing ILG number.
	51	FB00		The entered ILG number does not exist in the system.
	51	FB01		The length of entered DID value exceeds the allowable contract digit number.
	80	FB03		The entered GCO key group does not exist in the system.
	82	FB01		The selected ILG number does not exist in the system. The number of ILGs exceed the system capacity.
	96	FB03 FB04		The number of allowable GCO or POOL key group assignments has been exceeded.
	98	FB01		The allowable number of DID assignments has been exceeded.
310	33	FB00		The entered equipment value is invalid.
	48	FB01 ~ FB03		No incoming destination number is assigned for the required parameter.
	80	FB00		The entered circuit is not set to support the designated trunk.
311	49	FB01		Although DISA security is set to Necessary, no DISA code has been assigned.
312	49	FB01		The entered DID number is not assigned to an ILG.
	49			The DID Number entered is invalid.
	80			DID Number entered does not exist in the system.
	82	FB00		The entered ILG number does not exist in the system.
313	33	FB00		The trunk number entered is out of the range.
	33	FB00		The entered equipment value is invalid.
	49	FB02 FB03		When Signalling Method field is set to CLASS: • The Signalling Contents field value must be assigned • The CLID Equipment Number Position circuit for the CIU must be entered.
	80	FB00		The entered trunk number does not exist in the system.

Program	Code	Occurred FB	Sub-parameter	Error Descriptions
315		FB01 FB02 FB04 FB05		ìNONEî entered in any field is invalid.
	33	FB03		The entered equipment value is invalid.
	49	FB00		The PCB installed in the designated Shelf/Slot must be a RDTU.
316	33	FB01		The channel group entered is out of the range.
	33	FB01		RPTU Equipment Number entered is invalid.
	49	FB01		When the equipment is moved, the number of the PCM highway in the moved equipment is different from the current equipment.
	49	FB04		If the Span Interface speed is set to a value not equal to 1.5M, the Dch position is modified.
	52	FB00		The entered channel group number conflicts with an existing ISDN extension(s).
	54	FB01		The equipment number entered is out of range.
	80	FB00		The entered channel group number does not exist in the system.
	80	FB01		The entered circuit must be an assigned ISDN.
317	33	FB00		The entered equipment value is invalid.
	33	FB03		The ILG entered is out of the range.
	33	FB04		The OLG entered is out of the range.
	49	FB03		ì0î was entered in ILG when OLG was not registered.
	49	FB03 FB04		The entered ILG/OLG values do not have ISDN assignments.
	49	FB04		The OLG entered is not registered in the system.
	49	FB04		ì0î was entered in OLG when ILG was unregistered.
	50	FB18		The T-Wait Timer can only be enabled if the Protocol is set to National ISDN.
	52	FB00		The entered channel group number conflicts with an existing ISDN extension(s).
	54	FB00		The quantity of lines, ISDN channels and PDNs entered exceeds the number of ports licensed with this processor.
	80	FB00		The entered channel group number does not exist in the system.
	80	FB01		The entered circuit must be an assigned ISDN.
	80	FB03		The entered ILG number does not exist in the system.
	80	FB04		The entered OLG number does not exist in the system.
	96	FB00		The allowable channel group assignments exceed the system capacity.

Program	Code	Occurred FB	Sub-parameter	Error Descriptions
318	33	FB15		The pause assignment is wrong.
	48	FB05 ~ FB10		No incoming destination number is assigned for the required parameter.
	49	FB03		The selected GCO conflicts with an existing ILG number.
	49	FB04		The selected Pool Line Group conflicts with an existing ILG number.
	80	FB03		The entered GCO key group does not exist in the system.
	82	FB00		The selected ILG number does not exist in the system.
	82	FB01		The selected ILG number does not exist in the system. The number of ILGs exceed the system capacity.
	96	FB03 FB04		The number of allowable GCO or POOL key group assignments has been exceeded.
319	33	FB01~FB03		The destination number entered is wrong.
	48	FB01~FB03		The destination number is not assigned.
320	33	FB00		The entered equipment value is invalid.
	54	FB01~FB03		The quantity of lines, ISDN channels and PDNs entered exceeds the number of ports licensed with this processor.
	80	FB00		The circuit for the designated PCB must be an assigned ISDN primary trunk.
321	33	FB00		The OLG entered is out of the range.
	80	FB00		The entered OLG number does not exist in the system.
322	33	-		The Group CO or Pool Line Group Destination is out of range (1~128).
	80	FB00		The entered OLG number does not exist in the system.
	80	FB01 FB02		The designated extension number does not exist in the system.
	80	FB01 FB02		The entered GCO value does not exist in the system.
	80	FB01 FB02		The entered POOL value does not exist in the system.
	82	FB00		The OLG entered is out of the range.
	96	FB03		The allowable system DID assignments has been exceeded.

Program	Code	Occurred FB	Sub-parameter	Error Descriptions
323	18	FB02		Select the Type of Service for CBC.
	33	FB06		The Incoming Line Group entered is invalid.
	33	FB07		The Outgoing Line Group entered is invalid.
	49	FB02~FB05		The same value is designated to the Type of Service, Facility Code, Service Parameters, and Network ID fields that correspond to the same channel group and different line service index.
	49	FB02		The entered values in Channel Group and Index fields are not valid CBC assignments. Select NODATA in Type of Service field to delete CBC setting.
	49	FB02 FB06		When an INWATS ILG is assigned in ILG field an Out WATS Type of Service cannot be assigned.
	49	FB02 FB06		If OUTWATS service is selected for Type of Service, an OLG value must be assigned.
	49	FB02 FB06		The selected ILG conflicts with an existing ILG number.
	49	FB02 FB07		When an Out WATS OLG is assigned in OLG field an INWATS Type of Service cannot be assigned.
	49	FB02 FB07		Make a selection in OLG field.
	49	FB02 FB07		The selected OLG conflicts with an existing ILG number.
	49	FB08~FB13		The assigned minimum Bch value (Minimum Calls Zones 1~3) exceeds the related (Maximum Calls Zones 1~3) maximum Bch value.
	49	FB08 FB10 FB12		The assigned minimum Bch value (Minimum Calls Zones 1~3) exceeds the related (Maximum Calls Zones 1~3) maximum Bch value.
323	49	FB08~FB13		The B channel entered is invalid.
	49	FB07		The OLG entered does not exist in system.
	49	FB06 FB07		The entered ILG/OLG values are not assigned ISDNs.
	50	FB02~FB07		Make a Service Type selection for field 02.
	52	FB00		The entered channel number conflicts with an existing ISDN extension(s), etc.
	80	FB00		The entered channel group number does not exist in the system.
	82	-		The Channel Group entered does not exist in the system.
	82	FB01		The allowable number of assigned channel groups has been exceeded.
	96	-		The number of allowable CBCs has been exceeded.

Program	Code	Occurred FB	Sub-parameter	Error Descriptions
324	33	FB00		The channel group entered is out of the range.
	33	FB01~FB03		The time entered is invalid.
	52	FB00		The entered channel number conflicts with an existing ISDN extension(s), etc.
	80	FB00		The entered channel group number does not exist in the system.

Attendant Position Programming Error Codes

Program	Code	Occurred FB	Sub-parameter	Error Descriptions
400	50	FB02		If the Called Number Index is not assigned, Call Destination must be set to insert.
404	33	FB00		The Attendant group number entered is out of the range.
	33	FB07~FB16		The ILG entered is out of the range.
	80	FB00		The entered Attendant group number does not exist in the system.
	80	FB07~FB16		The designated ILG does not exist in the system.

Service Programming Error Codes

Program	Code	Occurred FB	Sub-parameter	Error Descriptions
500	32	FB04 FB05		A character that is not permitted is included in the Destination number.
	50	FB04		Although 2nd destination has been assigned, you cannot remove the 1st destination. You cannot assign the 2nd destination without the 1st destination.
	50	FB05		A value must be assigned to Destination 1if an assignment was made in Destination 2.
	82	FB00		The entered System Call Forward number does not exist in the system.
	96	-		System Call Forward Index number exceeds the system capacity.
501	32	FB01		A character that is not permitted is included in the entered Speed Dial number.
	33	FB00		The entered Speed Dial number is out of range.
	33	FB01		The pause assignment is wrong.
502	51	FB00		The entered DN does not exist in the system (the entered value conflicts with an existing extension number or numbering plan).
	52	FB00		The entered number conflicts with an existing numbering plan.
	80	FB00		The entered extension does not exist. The entered Attendant Console does not exist.
	96	-		The Page group number entered exceeds the system's capacity.
	98	FB01~FB18		The number of allowable Device number per paging group has been exceeded.
503	49	FB19		The entered External Generic Relay number conflicts with an existing device, such as a door lock, etc.
	80	FB00		IOU card is not registered in the system.
	96	-		The Page group number entered exceeds the system's capacity.
	98	FB01~FB18		Device Number per paging group is exceeded.
504	33	FB01		The System Call Forward index entered is out of the range.
506	53	FB00		Account Code cannot be verified.
	80	FB00		Account code confirmation digit does not coincide. (It is larger than the value that was registered by Program 570.)
	98	FB00		The Account code number exceeds the system's capacity.

Program	Code	Occurred FB	Sub-parameter	Error Descriptions
507	33	FB01		The DDCB Equipment number entered is invalid.
	33	FB06~FB08		The destination number value is out of range (when destination type is Paging Group).
	33	FB06~FB08		The allowable number of Paging Groups have been exceeded.
	33	FB04		The entered Ring Duration is invalid.
	49	FB01		Door Phone number entered conflicts with an existing Door Phone number.
	49	FB01		The equipment assigned in DDCB Equipment Number is already in use.
	49	FB01		The entered value conflicts with an existing DKT extension.
	50	FB06~FB08		The destination number is not registered.
	52	FB01		The entered Circuit conflicts with an existing door lock.
	80	FB00		The entered Door Phone number does not exist in the system.
	80	FB01		The PCB Type designated for this circuit must be a DKU.
	82	FB00		The entered Door Phone number does not exist in the system.
	96	FB00		The allowable number of Door Phones has been exceeded.
508	33	FB03		The entered equipment value is invalid.
	49	FB02		The designated BIOU PCB circuit is used by another device (Night Bell, etc.), or two or more door locks are designated for the same BIOU PCB.
	49	FB03		The PCB Type designated for this DDCB circuit must be a PDKU or BDKU.
	49	FB03		The DDCB Equipment number entered conflicts with an existing door lock.
	52	FB03		Other devices (DKT extensions, door phones, etc.) are designated for the specified DDCB circuit.
	96	FB00		The allowable number of Door Locks has been exceeded.
509	-	-		No error occurs for this command except for common errors.
510	49	FB01		The specified COS Override Code digit is invalid.
512	-	-		No error occurs for this Program except for common errors.
513	33	FB00		The ILG entered is out of the range.
	80	FB00		ILG number enter does not exist.
514	33	FB00		The OLG entered is out of the range.
	80	FB00		The entered OLG number does not exist.
515	-	-		No error occurs for this Program except for common errors.

Program	Code	Occurred FB	Sub-parameter	Error Descriptions
516	32	FB02		A character that is not permitted is used in the Speed Dial number.
	50	FB01		The allowable number of Speed Dial Bins has been exceeded.
	51	FB00		The entered DN does not exist in the system (the entered value conflicts with an existing extension number or numbering plan).
	52	FB00		The entered value conflicts with an existing numbering plan.
	80	FB00		The entered PrimeDN does not exist.
	98	FB00		The allowable Short-dial number has been exceeded.
517	18	FB01		Multiple Calling Pilot DN is not assigned.
	48	FB01		Cannot delete Multiple Calling Pilot DN.
	51	FB01		The Multiple Calling Pilot DN entered is using in a part of the numbering plan, extension number, etc.
	52	FB01		The Multiple Calling DN entered is an already existing DN .
	52	FB01		The Multiple Calling Pilot DN entered already exists.
518	32	FB02		ISDN station cannot be assigned to the destination number.
	52	FB02		Cannot delete Multiple Calling Pilot DN.
	49	FB02		The Multiple Calling Pilot DN entered is using in a part of the numbering plan, extension number, etc.
	52	FB02		The plural trunk access number can not assign in the same Multiple Calling Group.
	80			Cannot assign the destination number because the Multiple Calling Group does not exist.
	48	FB02		The destination type and the destination number must be assigned at the same time.
	82	FB00		The Multiple Calling Group entered is out of the range.
519	33	FB00		The Multiple Calling Group entered is out of the range.
	80	-		The Multiple Calling Group entered does not exist.
520	-	-		No error occurs for this Program except for common errors.
521	51	FB00		The Route Plan Number must be complete to be registered to the Route Plan Table.
	98	-		The allowable number of participants in the Route Plan Table has been exceeded.
522	51	FB00		The Exception Route Plan Number must be complete to be registered to the Route Plan Table.
	98	-		The allowable number of participants in the Route Plan Table has been exceeded.
523	-	-		No error occurs for this Program except for common errors.
524	-	-		No error occurs for this Program except for common errors.

Program	Code	Occurred FB	Sub-parameter	Error Descriptions
525	33	FB01		The OLG entered is out of the range.
	49	FB01 FB02		Both the OLG Number and the Digit Modification Index must be entered.
	50	FB01		Digit Modification Index value cannot be 0.
526	32	FB02 FB03		The value entered is not permitted.
527	33	FB00		The entered date is out of range.
	98	FB00		The public holiday number entered exceeds the system's capacity.
528	-	-		No error occurs for this Program except for common errors.
529	33	FB03		The entered time is out of range.
530	32	FB00		A character(s) that is not permitted is included in the specified code.
	51	FB00		DR LCR Table codes cannot be repeated. The value entered cannot be registered (e.g., If 1234 is registered, 123 cannot be registered).
	80	FB00		The code is not registered in the screening table.
531	32	FB01		A character(s) that is not permitted is included in the specified code.
	51	FB01		LCR OLG Access codes cannot be repeated. The value entered cannot be registered (e.g., If 1234 is registered, 123 cannot be registered).
	82	FB01		The allowable number of LCR OLG Access codes has been exceeded.
	82	FB00		The OLG entered is out of the range.
	98	FB01		The allowable number of DR sharing tables has been exceeded.
532	-	-		No error occurs for this Program except for common errors.
533	32	FB01		A character(s) that is not permitted is included in the specified code.
	51	FB01		Dial Strings cannot be repeated. The value entered cannot be registered (e.g., If 1234 is registered, 123 cannot be registered).
	98	FB01		The allowable number of DRLs has been exceeded.
534	32	FB01		A character(s) that is not permitted is included in the specified code.
	51	FB01		To add a DRL to the DR Exception Table, the DRL number must be complete.
	98	FB01		The allowable number of participants in the DR Exception Table has been exceeded.
535	32	FB01~FB09		The value entered is not permitted.

Program	Code	Occurred FB	Sub-parameter	Error Descriptions
540	48	FB01		An incoming destination number must be entered when After Shift Type field is set to Dialing Digits.
	51	FB00		The entered value conflicts with an existing number scheme.
	52	FB00		The entered DN conflicts with an existing DKT, ISDN extension, etc.
	80	FB00		The entered DN does not exist.
541	20	FB01		A character(s) that is not permitted is included in the specified code.
	52	-		The entered DN conflicts with an existing DKT, ISDN extension, etc.
	80	-		The entered DN does not exist.
550	33	FB01~FB08		The OLG entered is out of the range.
	49	FB01~FB08		Two or more OLG numbers with the same value exist in the same group.
	80	FB01~FB08		The entered OLG number does not exist.
551	32	FB01~FB03		The value entered is not permitted.
570	49	FB01		Registered Digit Length cannot be less than the Verified Digit Length.
	50	FB02		Registered Digit Length cannot be less than the Verified Digit Length.
571	49	FB01~FB04		The same account code cannot be repeated.
	50	FB01~FB04		The same account code cannot be repeated.
573	33	FB01~FB08		The door phone number entered is out of the range.
	80	FB01		The entered Door Phone does not exist.
576	33	FB00		The tenant number entered is not ì1î.
	33	FB01		The paging group number entered is out of the range.
	80	FB01		The entered Paging Group does not exist.
577	33	FB00		The entered circuit type is out of range.
	33	FB00		The Ckt Type number entered, CO, GCO or POOL is invalid.
	51	FB00		The entered circuit number is invalid.
	52	FB00		The entered circuit number is invalid.
	80	FB00		The Device installed in the Circuit does not existed in the system.
	80	FB01		The entered station number does not exist.
579	-	-		No error occurs for this Program except for common errors.
580	52	-		The entered DN is not a VM extension.
	80	-		No error occurs for this command except for common errors.

Networking Programming Error Codes

Program	Code	Occurred FB	Sub-parameter	Error Descriptions
650	33	FB00		The OLG entered is out of the range.
	80	-		An OLG number has not been assigned in system.
651	98	-		The allowable number of Node ID assignments has been exceeded.
653	-	-		No error occurs for this Program except for common errors.
654	33	FB00		The OLG entered is out of the range.
655	-	-		No error occurs for this Program except for common errors.
656	49	FB01 ~ FB04		The entered Overlap Code already exists.
657	-	-		No error occurs for this Program except for common errors.
658	-	-		No error occurs for this Program except for common errors.
659	-	-		No error occurs for this Program except for common errors.
660	-	-		No error occurs for this Program except for common errors.
670	33	FB00		The Node ID entered is out of the range.
	51	FB00		The Node ID entered is using a part of the registered Node ID.
671	33	FB00		The Node ID entered is out of the range.
	51	FB00		The Node ID entered is using a part of the registered Node ID.
672	33	FB00		The Node ID entered is out of the range.
	51	FB00		The Node ID entered is using a part of the registered Node ID.
673	50	FB01		The Node ID entered is not registered.

Equipment Programming Error Codes

Program	Code	Occurred FB	Sub-parameter	Error Descriptions
801	49	FB02		Server Port Number must be entered when PC Operation Type is set to Server, or Client Port Number must be entered when PC Operation Type is set to Client.
	49	FB03		If a CTI value (200~208) is assigned to the Logical Device in Program 803, then Data Flow must be set to Asynchronization.
	49	FB09		When PC Operation Type is set to Client, the Client Port Number cannot be deleted.
	49	FB04		When PC Operation Type is set to Server, the Server Port Number cannot be deleted.
	50	FB02		When ìServerî is selected, the Server Port number (FB04) is not able to assign ì0î. When ìClientî is selected, the connecting port number (FB06) is not able to assign ì0î.
	50	FB04		When ìServerî is selected, the Server Port number (FB04) is not able to assign ì0î.
	50	FB06		When ìClientî is selected, the connecting port number (FB06) is not able to assign ì0î.
	80	FB00		The values assigned in Program 803 conflict with related I/O Logical and Physical Device assignments.
803	49	-		The selected port conflicts with existing devices, such as CTI, etc.
	50	-		The Physical Device assignment conflicts with existing serial number assignments.
804	80	-		The values assigned in Program 803 conflict with related I/O Logical and Physical Device assignments.

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