Intuity Messaging Solutions
R5 DCIU integration with System 75 and DEFINITY Systems

Issue 1
January 2001

6 DCS Administration
Overview

Page 6-1

DCS Administration

6

Overview

The Intuity AUDIX system can serve more than one switch when the switches are part of a Distributed Communications System (DCS) network. The switch that hosts the Intuity AUDIX system connects it to the other switches in the network. The Intuity AUDIX system uses the switch's existing DCS trunks for both data and voice communications.

Purpose

This chapter provides procedures for administering the following switches as the host and/or as a remote switch for the Intuity AUDIX system in a DCS environment:

- System 75
- DEFINITY G1
- DEFINITY G3i
- DEFINITY G3r
- DEFINITY G3s
- DEFINITY G3vs
- All DEFINITY R5/6/7/8/9

➤ NOTE:

Before you proceed with the instructions in this chapter, confirm that the voice trunks between the host and remote switch nodes have already been administered. Do not perform the tasks in this chapter unless the trunk administration has been completed and the DCS is up for the switch to

Intuity Messaging Solutions
R5 DCIU integration with System 75 and DEFINITY Systems

Issue 1
January 2001

6 DCS Administration
DCS Overview

Page 6-2

switch. See the appropriate switch documentation for the trunk administration procedures.

DCS Overview

The Distributed Communications System (DCS) network feature on Avaya switches is an arrangement that allows multiple switches to work together as one switch. The switches can be in the same geographic location or in remote locations. Locations in a DCS network share the same uniform dialing plan. To make the DCS networking feature operate, switches share call information over a DCIU link. By using a DCS network, switch subscribers receive calls from other remote subscribers as they would receive calls from their local switch. Callers receive caller names or extensions on their displays, and can use certain remote switch features as if on the local switch.

The host switch for the Intuity AUDIX system connects to the remote switches in the network. The Intuity AUDIX system's DCS feature package allows a single Intuity AUDIX system to integrate with a maximum of 20 switches on the DCS network. The Intuity AUDIX system uses the switch's existing DCS trunks for both data and voice communications.

There are two possible configurations for using an Intuity AUDIX system in a DCS configuration:

■ BX.25 data channels

■ ISDN-PRI D-channel (DEFINITY G3 and R5/6/7/8/9 only)

An Intuity AUDIX System in a DCS Configuration Using BX.25 Data Channels

An Intuity AUDIX system residing on a switch can support other switches (remote) in a DCS network. One Intuity AUDIX system can be used to support up to 20 switches in a DCS network. A remote switch does not have a direct data link connection to the Intuity AUDIX system. The remote switch passes data through the host switch to the Intuity AUDIX system through a channel over the DCS BX.25 data link. The Intuity AUDIX system on the host switch has separately administered channels to each of the supported remote switches. These hop channels, provided by the host switch, are used to control message waiting lamps and to identify remote switches to the Intuity AUDIX system. The host switch then provides the voice port and Intuity AUDIX system connections for all switches in the DCS that communicate with the Intuity AUDIX system on the host. All Intuity AUDIX system features can be activated from both the host and remote switches.

The remote Intuity AUDIX system hunt group can be a coverage point in a call coverage path at a remote switch not connected directly to the Intuity AUDIX system. The remote switch must be in the DCS network.

Intuity Messaging Solutions
R5 DCIU integration with System 75 and DEFINITY Systems

Issue 1
January 2001

6 DCS Administration
DCS Overview

Page 6-3

An Intuity AUDIX System in a DCS Configuration Using ISDN-PRI D-Channel (DEFINITY G3i, G3r, G3s, and G3vs only)

This configuration also uses BX.25 connectivity between the Intuity AUDIX system and the host switch. ISDN-PRI connects the host switch and the remote switches in the DCS network. The feature requires the same hardware as the DCS Over ISDN-PRI D-channel feature. Intuity AUDIX system messages are transported to the remote switch through administered non-call-associated temporary signaling connections (NCA-TSCs) between nodes supporting ISDN-PRI D-channel. An administered NCA-TSC is established between two administered NCA-TSC endpoints on two different switches and will be up or enabled for a period of time depending on administered translations. The connection may be administered on an as-needed or permanent basis.

Both configurations are available on the remote switch. For detailed examples of DCS in the following list of configurations, see *DCS and AUDIX Networking* in *DEFINITY ECS Administration and Feature Description Release 6, Issue 2,* 555-230-522.

- ■ Traditional DCS network example

- ■ D-channel DCS network example (private network only)

- ■ D-channel DCS network example (public network access/egress)

- ■ Integrated DCS network example (private or public networks only)

Connectivity

Figure 6-1 shows the configuration for providing INTUITY AUDIX voice messaging transparency in a DCS network. It consists of a single INTUITY AUDIX machine connected to multiple switches via a host or gateway switch. The voice lines to and from the INTUITY AUDIX system all terminate in an Automatic Call Distribution (ACD) group on the host switch. Thus, the host switch is a tandem point for all voice connections between the INTUITY AUDIX system and the other remote switches in the DCS arrangement. Voice lines between the host switch and the remote switches are provided by the DCS tie trunks.

Intuity Messaging Solutions
R5 DCIU integration with System 75 and DEFINITY Systems

Issue 1
January 2001

6 DCS Administration
DCS Overview

Page 6-4

Intuity AUDIX system

host switch

voice lines

**logical path 1
Host to Intuity
AUDIX**

GPSC-AT/E

DCIU

**logical path 2
host to remote switch to Intuity
AUDIX**

**logical path 3
remote switch
to host switch**

**DCS tie
trunks**

DCIU

remote switch

Figure 6-1. High-Level DCS Connectivity with the Intuity AUDIX System

Intuity Messaging Solutions
R5 DCIU integration with System 75 and DEFINITY Systems

Issue 1
January 2001

6 DCS Administration
DCS Administration for System 75 and DEFINITY G1 Switches

Page 6-5

In a DCS network, logical channels on the physical link provide connectivity for the transmission of voice messages between the switches and the INTUITY AUDIX system. The Data Communications Interface Unit (DCIU) on the host switch is used for these communications. These logical channels will be rerouted from the host switch to each of the remote switches. Logical paths can be established between each switch and the INTUITY AUDIX system.

- The host switch and the INTUITY AUDIX system exchange voice messages over logical path 1.

- The remote switch and the INTUITY AUDIX system exchange voice messages over logical path 2.

- The host switch and the remote switch exchange voice messages over logical path 3.

DCS Administration for System 75 and DEFINITY G1 Switches

Use the information in this section to configure a System 75 or DEFINITY G1 DCS network for an Intuity AUDIX system. If you have another type of switch, see one of the following sections:

- "DCS Administration for G3r Switches"

- "DCS Administration for G3 & R5/6 Switches (Other than G3r & R5/6r)"

$\Longrightarrow$ **NOTE:**
The examples in this section use the information shown below. Do not use this information to configure your system.

Remote (Node 1)		Host (Node 3)	
Processor Channel	3	Processor Channel	59
Interface Link	1	Interface Link	4
Interface Channel	4	Interface Channel	1
Remote Processor Channel	4	Intuity AUDIX Machine-ID	4

The host switch Processor Channel Assignment screen for the above example would contain the following values for the DCS processor channel and the Intuity AUDIX processor channel:

Intuity Messaging Solutions
R5 DCIU integration with System 75 and DEFINITY Systems

Issue 1
January 2001

6 DCS Administration
DCS Administration for System 75 and DEFINITY G1 Switches

Page 6-6

	DCS	Intuity AUDIX
Processor Channel	1	59
Application	dcs	AUDIX
Interface Link	1	4
Interface Channel	2	1
Priority	h	h
Remote Proc Channel	2	1
Machine_ID	1	4

Figure 6-2 shows the Avaya INTUITY Switch Interface Administration screen for the above example.


```
                Switch Interface Administration
Switch Link Type: DCIU          Switch Release: System 75 type
Extension Length: 4
Host Switch Number: 1
AUDIX Number: 4

                HOST SWITCH LINK ASSIGNMENTS
          AUDIX Port                      AUDIX Port
 Switch Logical Switch            Switch Logical Switch
 Number Channel Port              Number Channel Port
    1       1     59                 2      __   __
    3       3     59                 4      __   __
    5       __    __                 6      __   __
    7       __    __                 8      __   __
    9       __    __                10      __   __
   11       __    __                12      __   __
   13       __    __                14      __   __
   15       __    __                16      __   __
   17       __    __                18      __   __
   19       __    __                20      __   __
```

Figure 6-2.   Sample Avaya INTUITY Switch Interface Administration Screen

Assign the Processor Channel at the Remote Switch

Use the following procedures to assign a processor channel for the Intuity AUDIX system on the DCS link between the remote switch and the host switch. Perform this procedure at each remote System 75 or DEFINITY G1 remote switch.

Intuity Messaging Solutions
R5 DCIU integration with System 75 and DEFINITY Systems

Issue 1
January 2001

6 DCS Administration
   DCS Administration for System 75 and DEFINITY G1 Switches *Page 6-7*

Disable the Host to Remote Switch DCS Link

Use the following procedure to disable the DCS link between the remote switch and the host switch.

> ### ⚠ CAUTION:
> *This procedure disables DCS transparency. Perform it only after normal business hours.*

1. Enter **busyout link *DCS link number*** to busy out the link.

2. Enter **change communication-interface links.**

    The system displays the Interface Links screen (Figure 6-3).

```
change communication-interface links                        Page 1 of 1

                          INTERFACE LINKS

Link   Enable  Est   PI              Destination   DTE/
               Conn  Ext     Prot    Digits  Brd   DCE    Identification
 1:      _      _    ____    ____    _____   ___   ___    _____
 2:      y      y    12051   BX25    12050   ___   DTE     AUDIX
 3:      _      _    ____    ____    _____   ___   ___    _____
 4:      _      _    ____    ____    _____   ___   ___    _____
 5:      _      _    ____    ____    _____   ___   ___    _____
 6:      _      _    ____    ____    _____   ___   ___    _____
 7:      _      _    ____    ____    _____   ___   ___    _____
 8:      _      _    ____    ____    _____   ___   ___    _____
```
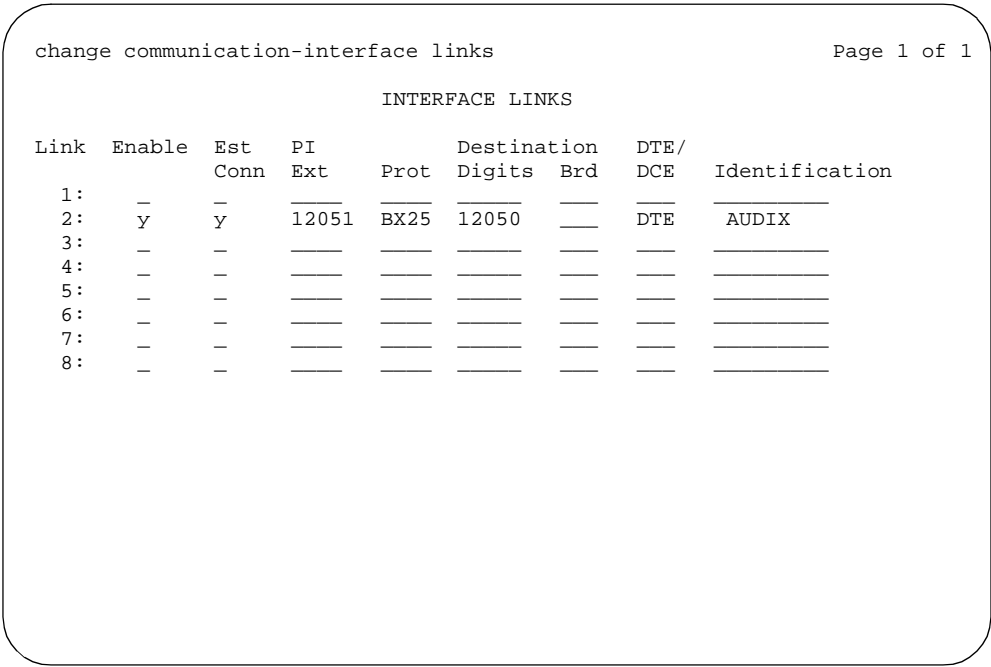
Figure 6-3.   Sample G1 Interface Links Screen

3. Enter **n** in the `Enable` field for the DCS link between the host switch and the remote switch.

4. Press `ENTER` to save the change and return to the enter command prompt.

Administer the Processor Channel

1. Enter **change communication-interface processor channels** at the `enter command:` prompt.

Intuity Messaging Solutions
R5 DCIU integration with System 75 and DEFINITY Systems

Issue 1
January 2001

6 DCS Administration
DCS Administration for System 75 and DEFINITY G1 Switches Page 6-8

The system displays the Processor Channel Assignment screen (Figure 6-4).

```
change communication-interface processor channels        Page 1 of 4

                     PROCESSOR CHANNEL ASSIGNMENT

Proc            Interface                 Remote
Chan    Appl.   Link  Chan    Priority    Proc Chan     Machine-ID

 1:      dcs     1     2         h            2              3
 2:     _____   _     __      _____          __            ___
 3:     AUDIX    1     4         h            4              4
 4:     _____   _     __      _____          __            ___
 5:     _____   _     __      _____          __            ___
 6:     _____   _     __      _____          __            ___
 7:     _____   _     __      _____          __            ___
 8:     _____   _     __      _____          __            ___
 9:     _____   _     __      _____          __            ___
10:     _____   _     __      _____          __            ___
11:     _____   _     __      _____          __            ___
12:     _____   _     __      _____          __            ___
13:     _____   _     __      _____          __            ___
14:     _____   _     __      _____          __            ___
15:     _____   _     __      _____          __            ___
16:     _____   _     __      _____          __            ___
```

Figure 6-4. Sample G1 Processor Channel Assignment Screen

2. Enter the correct values in each of the fields. Use (Table 6-1) to assign an unused processor channel on the DCS link between the remote switch and the host switch.

Intuity Messaging Solutions
R5 DCIU integration with System 75 and DEFINITY Systems

Issue 1
January 2001

6 DCS Administration
DCS Administration for System 75 and DEFINITY G1 Switches

Page 6-9

Table 6-1. **Processor Channel Assignment Screen Entries**

Field	Description and Instructions
Proc Chan	A display-only field used to number each of the 64 processor channels. Select an unused processor channel from 1–64.
Appl.	Enter **AUDIX** to identify the channel application.
Interface Link	Enter the number of the Interface Link that you busied out in "Disable the Host to Remote Switch DCS Link" above. Worksheet G, in Chapter 2, "Switch Integration Planning", lists the Interface Link number.
Interface Channel	Enter the logical channel number of the interface link. See Worksheet G, in Chapter 2, "Switch Integration Planning", for the correct interface channel number. The number is the node number of the switch.
Priority	Enter **h** to indicate a high-priority channel.
Remote Proc Chan	Enter the logical channel number of the interface link. See Worksheet G in Chapter 2, "Switch Integration Planning", for the correct interface channel number. The number is the node number of the switch.
Machine-ID	Enter the Machine-ID of the Intuity AUDIX system. The Machine ID must agree with the AUDIX field entry on the Avaya INTUITY Switch Interface Administration screen (Figure 6-2).

3. After you enter the processor channel information, press ⬚ENTER⬚ to save the information and return to the enter command prompt.

4. Table 6-2 shows the field correlations between a remote System 75 or G1 Processor Channel Assignment screen and the Avaya INTUITY Switch Interface Administration screen. Compare these two screens and ensure that the field entries match.

Table 6-2. Remote System 75 or G1 and Avaya INTUITY System Correlations

System 75 and G1 Processor Channel Assignment Screen Field	Avaya INTUITY Switch Interface Administration Screen Field
Interface Channel	Logical Channel
Remote Proc Chan	Logical Channel
Proc Chan	Switch Port
Machine-ID	AUDIX

Enable the Host-to-Remote Switch DCS Link

Perform the following steps to enable the DCS link between the host switch and the remote switch.

> ⚠ **CAUTION:**
> *This procedure restarts all links on this interface. Perform it only after normal business hours.*

1. Enter **change communication-interface links**

   The system displays the Interface Links screen (Figure 6-3).

2. Enter **y** in the Enable field for the DCS link between the host switch and the remote switch. This is the same link you disabled in the "Disable the Host to Remote Switch DCS Link" procedure above.

3. After you enter the processor channel information, press ENTER to save the information.

   The system returns to the enter command prompt.

4. Continue with the next procedure, "Assign the Hop Channel".

Assign the Hop Channel

Move to the host switch administration terminal. At the host switch, use the following procedure to establish a hop, or software data path, from the remote switch through the host switch to the Intuity AUDIX system.

Busyout the Host to Remote Switch DCS Link and the Host to Intuity AUDIX System Link

Use the following procedure to disable the DCS link between the remote switch and the host switch and between the host switch and the Intuity AUDIX system. Perform this procedure at the host System 75 or DEFINITY G1 switch.

> ### ⚠ CAUTION:
> *This procedure disables DCS transparency. Perform it only after normal business hours.*

1. Enter **busyout link *DCS link number for host to remote switch*** to busy out the link.

2. Enter **busyout link *link number for host to Intuity AUDIX system*** to busy out the link.

3. Enter **change communication-interface links**

   The system displays the Interface Links screen (Figure 6-3).

4. Enter **n** in the Enable field for the DCS link between the host switch and the remote switch.

5. Enter **n** in the Enable field for the link between the host switch and the Intuity AUDIX system.

6. Press ENTER to save the information.

   The system returns to the enter command prompt.

Administer the Hop Channel Assignment Screen

1. Enter **change communication-interface hop-channels** at the switch administration terminal.

   The system displays the Hop Channel Assignment screen (Figure 6-5).

```
display communication-interface hop-channels                  Page 1 of 2

                              HOP CHANNEL ASSIGNMENT
   Link/Chan    Link/Chan   Priority    Link/Chan    Link/Chan   Priority
     4    4       1    4        h        __  __      __  __         __
    __   __      __   __       __        __  __      __  __         __
    __   __      __   __       __        __  __      __  __         __
    __   __      __   __       __        __  __      __  __         __
    __   __      __   __       __        __  __      __  __         __
    __   __      __   __       __        __  __      __  __         __
    __   __      __   __       __        __  __      __  __         __
    __   __      __   __       __        __  __      __  __         __
    __   __      __   __       __        __  __      __  __         __
    __   __      __   __       __        __  __      __  __         __
    __   __      __   __       __        __  __      __  __         __
    __   __      __   __       __        __  __      __  __         __
    __   __      __   __       __        __  __      __  __         __
    __   __      __   __       __        __  __      __  __         __
    __   __      __   __       __        __  __      __  __         __
    __   __      __   __       __        __  __      __  __         __
```

Figure 6-5.   G1 Hop Channel Assignment Screen

2. Use Table 6-3 to enter the correct values in the fields on the Hop Channel Assignment screen.

Intuity Messaging Solutions
R5 DCIU integration with System 75 and DEFINITY Systems

Issue 1
January 2001

6 DCS Administration
DCS Administration for System 75 and DEFINITY G1 Switches

Page 6-12

Table 6-**3.   Hop Channel Assignment Screen Entries (Host)**

Field	Description
Link	■ For a System 75 switch, enter an interface link number between 1 and 4.
	■ For a G1 switch, both links in a hop channel assignment must be on the same Processor Interface circuit card. Links 1–4 are on Processor Interface circuit card 1 and links 5–8 are on circuit card 2 for multi-carrier cabinet systems.
	■ For the link in the first column, enter the Interface Link for the host switch Processor Channel Assignment screen (Figure 6-4) from the link that connects the remote switch to the host switch. This is the first link you busied out in the "Busyout the Host to Remote Switch DCS Link and the Host to Intuity AUDIX System Link" procedure above.
Chan	Enter an interface channel number from 1 through 64. For the channel in the second column, enter the Interface Channel number from the remote switch Processor Channel Assignment screen (Figure 6-4) for the channel that connects the remote switch to the Intuity AUDIX system on the host switch.

Intuity Messaging Solutions
R5 DCIU integration with System 75 and DEFINITY Systems

Issue 1
January 2001

6 DCS Administration
DCS Administration for System 75 and DEFINITY G1 Switches

Page 6-13

Field	Description
Link	■ For a System 75 switch, enter an interface link number between 1 and 4.
	■ For a G1 switch, both links in a hop channel assignment must be on the same Processor Interface circuit card. Links 1–4 are on Processor Interface circuit card 1 and links 5–8 are on circuit card 2 for multi-carrier cabinet systems.
	■ For the link in the third column, enter the Interface Link from the host switch Processor Channel Assignment screen for the link that connects the host switch to the Intuity AUDIX system. This is the second link you busied out in the "Disable the Host to Remote Switch DCS Link" procedure above.
Chan	Enter an interface channel number from 1 to 64. For the channel in the fourth column, enter the Remote Processor Channel from the remote switch Processor Channel Assignment screen (Figure 6-4) for the channel that connects the Intuity AUDIX system to the remote switch. This is the AUDIX Port Logical Channel used on the Avaya INTUITY Switch Interface Administration screen (Figure 6-2) for the remote switch. The field must match the remote switch processor channel number.
Priority	Enter **h**

3. After you enter the hop channel information, press ⎡ENTER⎤ to save the information.

   The system returns to the command prompt.

Release the Host-to-Remote Switch DCS Link and the Host-to-Intuity AUDIX System Link

Perform the following procedure to enable the DCS link between the host switch and the remote switch and the link between the host switch and the Intuity AUDIX system.

⚠ CAUTION:

This procedure restarts all links on this interface. Perform it only after normal business hours.

1. Enter **change communication-interface links**

   The system displays the Interface Links screen ().

2. Enter **y** in the `Enable` field for the DCS link between the host switch and the remote switch.

3. Enter **y** in the `Enable` field for the link between the host switch and the Intuity AUDIX system.

4. After you enter the information, press ENTER to save the information.

   The system returns to the `enter command:` prompt.

5. Continue with below.

Assign the Hunt Group at the Remote Switch

This section contains procedures for administering a Hunt Group for the Intuity AUDIX system on a System 75 or G1 remote switch. DCS connectivity must have been previously administered.

If the Intuity AUDIX system supports a DCS network, assign the remote Intuity AUDIX system (rem-AUDIX) hunt group with the host switch Intuity AUDIX system AUDIX extension number. No host switch administration is required.

1. Enter **add hunt-group *number*** at the remote switch administration terminal to assign a new hunt group.

   The system displays the Hunt Group screen ().

```
add hunt-group 10                                            Page 1 of 6
                            HUNT GROUP

    Group Number: 10              Group Extension: 12000  Group Type: ucd
      Group Name: AUDIX               Coverage Path: ___          COR: 1
   Security Code: ____           Message Center: rem-AUDIX     ACD? n
           Queue? n    Night Service Destination: ____
 ISDN Caller Disp: ____               Audix Extension: 12000
```

Figure 6-6.   Sample G1 Hunt Group Screen, Page 1, on the Remote Switch

   2. Use Table 6-4 to enter the correct values in the fields.

Intuity Messaging Solutions
R5 DCIU integration with System 75 and DEFINITY Systems

Issue 1
January 2001

6 DCS Administration
DCS Administration for System 75 and DEFINITY G1 Switches

Page 6-16

Table 6-4. Hunt Group Screen Entries for Page 1

Field	Description and Instructions
Group Number:	Displays the hunt group number assigned to the hunt group when you entered the **add hunt-group command**.
Group Extension:	Enter an unused extension number consisting of 3 to 5 digits, to be assigned to the hunt group. This is the extension subscribers dial at the remote switch to access voice mail features.
Group Type:	Enter **ucd**
Group Name:	Enter the name you want display set subscribers to see when they call the Intuity AUDIX system to access voice mail features. This name can consist of up to 15 characters.
	The word "AUDIX" must be part of the name for the G3-MA administration tool to recognize the Intuity AUDIX system. Other characters may appear in the name as long as AUDIX is part of the name. If AUDIX is not part of the Group Name, G3-MA will *not* be able to extract names from the switch when provisioning the Intuity AUDIX system.
Coverage Path:	Leave this field blank. Do not assign a coverage path to this Intuity AUDIX hunt group. Sending a call to somewhere other than the hunt group can cause problems with the Intuity AUDIX system.
COR:	Enter the class of restriction number that reflects the desired restriction for the Intuity AUDIX hunt group. For security reasons, the Intuity AUDIX hunt group should be assigned a unique COR that is restricted from accessing all outgoing trunks or only those outgoing trunks needed for the Outcalling or AMIS Analog Networking features. Do not use the default COR.
Security Code:	Leave this field blank.
Message Center:	Enter **rem-AUDIX**
ACD:	Enter **n**
Queue?	Enter **n**

Intuity Messaging Solutions
R5 DCIU integration with System 75 and DEFINITY Systems

Issue 1
January 2001

6 DCS Administration
DCS Administration for System 75 and DEFINITY G1 Switches

Page 6-17

Field	Description and Instructions
Night Service Destination:	Enter the destination where calls to this hunt group will be redirected when the hunt group is in the night service mode. Allowable entries are an assigned extension number, the attendant, or a blank. This field will be left blank for most applications, but an application requires calls to be redirected when the hunt group is in night service mode.
ISDN Caller Disp:	Leave this field blank.
Audix Extension:	Enter the extension number assigned to the Intuity AUDIX system hunt group at the host switch.

3. After you enter the information, press (ENTER) to save the information.

   The system returns to the enter command prompt. You do not need to enter any information on the page 2 of the Hunt Group screen.

4. Continue with "Administer the Subscribers (Remote Switch)" below to administer the remote subscribers on the remote switch.

Intuity Messaging Solutions
R5 DCIU integration with System 75 and DEFINITY Systems

Issue 1
January 2001

6 DCS Administration
DCS Administration for G3r Switches

Page 6-18

DCS Administration for G3r Switches

Use the information in this section to configure a DEFINITY G3r or R5/6/7/8/9r DCS network for an Intuity AUDIX system.

Use the following table to determine which DCS administration tasks you must perform for your configuration.

Configuration	Tasks Required
A DCS configuration via BX.25 Data Channels	■ Administer DCS with BX.25 Signaling — Assign the Processor Channel at the Remote Switch — Assign the Hop Channel at the Host Switch ■ Assign the Hunt Group at the Remote Switch ■ Administer the Subscribers (Remote Switch) — Assign the Call Coverage Path for Subscribers (Remote Switch) — Modify the Station Screen for Each Remote Subscriber
A DCS configuration via ISDN-PRI D-channel	■ Administer DCS for the ISDN-PRI D-Channel — Assign the Processor Channel at the Host Switch — Assign the Signaling Group at the Host Switch — Assign the ISDN TSC Gateway Channel at the Host Switch — Administer DCS for ISDN-PRI at the Remote Switch ■ Assign the Hunt Group at the Remote Switch ■ Administer the Subscribers (Remote Switch)

$\Rightarrow$ **NOTE:**
The examples in this section use the information shown below. <u>Do not</u> use this information to configure your system.

Remote (Node 1)		Host (Node 3)	
Processor Channel	3	Processor Channel	13
Interface Link	1	Interface Link	4

Intuity Messaging Solutions
R5 DCIU integration with System 75 and DEFINITY Systems

Issue 1
January 2001

6 DCS Administration
DCS Administration for G3r Switches

Page 6-19

Remote (Node 1)		Host (Node 3)	
Interface Channel	4	Interface Channel	1
Local Port	3	Intuity AUDIX Machine-ID 4	4
Remote Port	4		

The host switch Processor Channel Assignment screen for the above example would contain the following values for the DCS processor channel and the Intuity AUDIX processor channel:

	DCS	**Intuity AUDIX**
Processor Channel	1	59
Application	dcs	AUDIX
Interface Link	1	4
Interface Channel	2	1
Priority	h	h
Remote Proc Channel	2	1
Machine_ID	1	4

Figure 6-2 shows the Avaya INTUITY Switch Interface Administration screen for the above example.

Assign User-Defined Adjunct Names to Remote Switches (DEFINITY R6 and Earlier)

A G3r (or DEFINITY ECS R6 and earlier switch) can have multiple types of Intuity AUDIX adjuncts, defined as AUDIX adjuncts. You must identify the Intuity AUDIX system on the User Defined Adjunct Names screen. Perform the following procedure on each of the remote switches.

1. Log in to the switch G3-Management Terminal (G3-MT) by entering the craft or inads user id.

2. Enter your password.

3. Enter the correct terminal type for the G3-MT.

4. Enter **change adjunct names** to access the User Defined Adjunct Names screen (Figure 6-7).

5. Enter the name chosen for the Intuity AUDIX system under AUDIX NAMES.

   Use an alphanumeric name up to 7 characters long. See Worksheet H, in Chapter 2, "Switch Integration Planning".

6. Press $\boxed{\text{ENTER}}$ to save the information.

```
change adjunct-names                                      Page  1 of  1
                     USER DEFINED ADJUNCT NAMES

          AUDIX NAMES                    MESSAGE SERVER NAMES
          1: Intuity1                       1: _____
          2: _____                       2: _____
          3: _____                       3: _____
          4: _____                       4: _____
          5: _____                       5: _____
          6: _____                       6: _____
          7: _____                       7: _____
          8: _____
```

Figure 6-7. Sample G3r User-Defined Adjunct Names Screen

7. Select one of the following options:

   - If you plan to use a DCS network with BX.25 signaling, continue with "DCS with BX.25 Signaling Administration" below.

   - If you plan to use a DCS network through the ISDN-PRI D-channel, continue with "DCS+ Via ISDN-PRI D-Channel Administration" below.

Assign Node Names on Remote Switches (DEFINITY R7 and Later)

A DEFINITY R7/8/9r switch can have several types of INTUITY AUDIX adjuncts defined as AUDIX adjuncts. You must identify the names of each of the eight possible AUDIX adjuncts used with the INTUITY AUDIX system. Select names that logically describe the functions of the adjunct, for example AUDIX1 or AUDIX2. Although you name the adjuncts as AUDIX, the name works correctly with the INTUITY AUDIX system. You must use the INTUITY AUDIX system adjunct name when you administer the station and the processor channel. Perform the following procedure on each of the remote switches.

Use the following procedure to define the INTUITY AUDIX adjunct names:

1. Log in to the switch Management Terminal (MT) by entering the craft or inads user id.

2. Enter your password.

3. Enter the correct terminal type for the MT.

4. Enter **change node-names**

The system displays the Node Names screen (Figure 6-8).

```
                    AUDIX-MSA NODE NAMES

    Audix Name        IP address            MSA Names        IP
Address
1. audix _           ___.___.___.___  1. msa__ _           ___.__
_.___.___
2. _____           ___.___.___.___  2. _____           ___.__
_.___.___
3. _____           ___.___.___.___  3. _____           ___.__
_.___.___
4. _____           ___.___.___.___  4. _____           ___.__
_.___.___
```

Figure 6-8.   Sample Node Names Screen (DEFINITY ECS R7 and Later)

5. Enter the name chosen for the INTUITY AUDIX system under `Audix Name`
    on the screen. Leave the `IP address` field blank.

    Use an alphanumeric name up to 7 characters long. See Worksheet A in
    Chapter 2, "Switch Integration Planning", for the correct adjunct name to
    use.

6. Press `ENTER` to save the information.

7. Select one of the following options:

    ■ If you plan to use a DCS network with BX.25 signaling, continue with
       "DCS with BX.25 Signaling Administration" below.

    ■ If you plan to use a DCS network through the ISDN-PRI D-channel,
       continue with "DCS+ Via ISDN-PRI D-Channel Administration"
       below.

DCS with BX.25 Signaling Administration

Complete the instructions in this section if you plan to use a DCS network with
BX.25 signaling. If you plan to use a DCS network through the ISDN-PRI
D-Channel, do not perform the instructions in this section. Instead, continue with
"DCS+ Via ISDN-PRI D-Channel Administration" below.

Assign the Processor Channel at the Remote Switch

Use the following procedure to assign a processor channel for the Intuity AUDIX system on the DCS link between the remote switch and the host switch. Perform this procedure at each remote DEFINITY G3r remote switch.

Disable the Host to Remote Switch DCS Link

Use the following procedure to disable the DCS link between the remote switch and the host switch. Perform this procedure at each remote DEFINITY G3r remote switch.

> **⚠ CAUTION:**
> *This procedure disables DCS transparency. Perform it only after normal business hours.*

1. Enter **busyout link *DCS link number*** to busy out the link.

2. Enter **change communication-interface links** (DEFINITY ECS R6 or earlier) or **change data-module <ext>** for the DCS data module (DEFINITY ECS R7 or later).

   The system displays the Interface Links or Data Module screen (Figure 6-9 or Figure 6-10).

```
change communication-interface links                        Page 1 of 1
                        INTERFACE LINKS

 Link   Enabled   X.25      Destination  Establish   Connected
                  Extension    Number    Connection  Data Module Identification

   1:      _       _____     _____                 _____  _____
   2:      _       _____     _____                 _____  _____
   3:      _       _____     _____                 _____  _____
   4:      y       12050     external                 __12050___  AUDIX_____
   5:      _       _____     _____                 _____  _____
   6:      _       _____     _____                 _____  _____
   7:      _       _____     _____                 _____  _____
   8:      _       _____     _____                 _____  _____
   9:      _       _____     _____                 _____  _____
  10:      _       _____     _____                 _____  _____
  11:      _       _____     _____                 _____  _____
  12:      _       _____     _____                 _____  _____
  13:      _       _____     _____                 _____  _____
  14:      _       _____     _____                 _____  _____
  15:      _       _____     _____                 _____  _____
  16:      _       _____     _____                 _____  _____
```

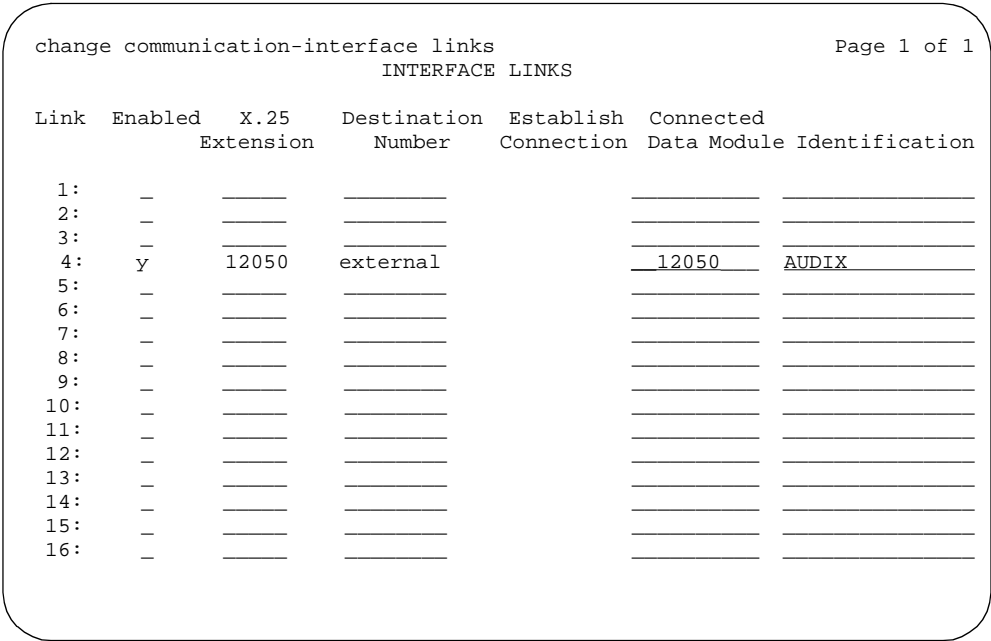**Figure 6-9. Sample G3r Interface Links Screen**

```
add data-module 12050                                    Page 1 of 2
                DATA MODULE

Data Extension: 12050     Name: DCS
          Type: x.25                  Remote Loop-Around Test? n
           Port: 01A0501         COR: 1              Destination
Number: external
    Baud Rate: switched    TN: 1    Establish Connection: y
 Endpoint Type: adjunct DTE/DTC: dte Connected Data Module:
          Link: 4    Enable Link: n              Error Logging? y

Permanent Virtual Circuit? y      Highest PVC Logical Channel: 64
 Switched Virtual Circuit? n
```

Figure 6-10.   Sample BX.25 Data Module Screen, Page 1 (DEFINITY R7 and Later)

3. Enter **n** in the Enable (or Enable Link) field for the DCS link between the host switch and the remote switch.

4. Press (ENTER) to save the information

The system returns to the enter command prompt.

Administer the Processor Channel

1. Enter **change communication-interface processor channels** at the enter command: prompt.

The system displays the Processor Channel Assignment screen ().

```
change communication-interface processor-channels          Page 1 of 8

                       PROCESSOR CHANNEL ASSIGNMENT

  Proc                 Interface    Local    Remote   Adjunct
  Chan   Application   Link  Chan   Port      Port     Name      Machine-ID
   1:      _dsc___      1_    2_     2_        2_      _node 3     _3_
   2:      _dsc___      8_    22     22        22      _node 8     _8_
   3:      _AUDIX_      1_    4_     3_        4_      AUDIX 1     _4_
   2:      _____     __    __     __        __      _____     ___
   3:      _____     __    __     __        __      _____     ___
   4:      _____     __    __     __        __      _____     ___
   5:      _____     __    __     __        __      _____     ___
   6:      _____     __    __     __        __      _____     ___
   7:      _____     __    __     __        __      _____     ___
   8:      _____     __    __     __        __      _____     ___
   9:      _____     __    __     __        __      _____     ___
  10:      _____     __    __     __        __      _____     ___
  11:      _____     __    __     __        __      _____     ___
  12:      _____     __    __     __        __      _____     ___
  13:      _____     __    __     __        __      _____     ___
  14:      _____     __    __     __        __      _____     ___
  15:      _____     __    __     __        __      _____     ___
```

Figure 6-11.   Sample Processor Channel Assignment Screen (DEFINITY R6 or Earlier)

```
                     PROCESSOR CHANNEL ASSIGNMENT

 Proc            Gtwy       Interface      Destination     Session    Mach
 Chan  Enable  Appl.  To  Mode  Link/Chan  Node      Port  Local/Remote  ID
  1:    _  _____    _   __  _____  _____  0____  ___  ___  __
  2:    _  _____    _   __  _____  _____  0____  ___  ___  __
  3:    _  _____    _   __  _____  _____  0____  ___  ___  __
  4:    _  _____    _   __  _____  _____  0____  ___  ___  __
  5:    _  _____    _   __  _____  _____  0____  ___  ___  __
  6:    _  _____    _   __  _____  _____  0____  ___  ___  __
  7:    _  _____    _   __  _____  _____  0____  ___  ___  __
  8:    _  _____    _   __  _____  _____  0____  ___  ___  __
  9:    _  _____    _   __  _____  _____  0____  ___  ___  __
 10:    _  _____    _   __  _____  _____  0____  ___  ___  __
 11:    _  _____    _   __  _____  _____  0____  ___  ___  __
 12:    _  _____    _   __  _____  _____  0____  ___  ___  __
 13:    _  _____    _   __  _____  _____  0____  ___  ___  __
 14:    _  _____    _   __  _____  _____  0____  ___  ___  __
 15:    _  _____    _   __  _____  _____  0____  ___  ___  __
 16:    _  _____    _   __  _____  _____  0____  ___  ___  __
```

Figure 6-12.   Sample Processor Channel Assignment Screen (DEFINITY R7 and later)

2. Enter the correct values in the fields. Use Table 6-5 to assign an unused processor channel on the DCS link between the remote switch and the host switch.

Table 6-5. Processor Channel Assignment Screen Entries

Field	Description and Instructions
Proc Chan	This is a display-only field used to number each of the 128 processor channels. Select an unused processor channel from 1 to 128.
Application	Enter **AUDIX** to identify the channel application
Interface Link	Enter the number of the Interface Link that you busied out in the Disable the Host to Remote Switch DCS Link section. Worksheet H, in Chapter 2, "Switch Integration Planning" lists the Interface Link number.
Interface Channel	Enter the logical channel number of the interface link. See Worksheet H, in Chapter 2, "Switch Integration Planning" for the correct interface channel number. The number is the node number of the switch.
Local Port	Enter the Switch Ports number used on the Avaya INTUITY Switch Interface Administration screen (Figure 6-2) for the remote switch.
Remote Port	Enter the logical channel number of the interface link. See Worksheet H, in Chapter 2, "Switch Integration Planning" for the correct interface channel number. The number is the node number of the switch.
Adjunct Name	Enter the name defined on the switch User Defined Adjunct Names screen (Figure 6-7) in "Assign User-Defined Adjunct Names to Remote Switches (DEFINITY R6 and Earlier)" above. The name must match the AUDIX Name field on the host switch.
Machine-ID	Enter the Machine-ID of the Intuity AUDIX system. The Machine ID must agree with the AUDIX field entry on the Avaya INTUITY Switch Interface Administration screen (Figure 6-2).

Intuity Messaging Solutions
R5 DCIU integration with System 75 and DEFINITY Systems

Issue 1
January 2001

6 DCS Administration
Assign Node Names on Remote Switches (DEFINITY R7 and Later) Page 6-26

Table 6-**6.** **Processor Channel Assignment Screen Entries (DEFINITY R7 or Later)**

Field	Description and Instructions
Proc Chan	This is a display-only field used to number each of the 128 processor channels. Any processor channel can be used for the Intuity AUDIX system, but 59 is the typical channel used.
Enable	Enter **y**.
Appl.	Enter **audix**.
Gtwy To	Leave this field blank.
Mode	Leave this field blank.
Interface Link	Enter the number of the Interface Link that you busied out in the Disable the Host to Remote Switch DCS Link section. Worksheet H, in Chapter 2, "Switch Integration Planning" lists the Interface Link number.
Interface Chan	Enter the logical channel number of the interface link. See Worksheet H, in Chapter 2, "Switch Integration Planning" for the correct interface channel number. The number is the node number of the switch.
Destination Node	Enter **audix** or the name you defined on the switch Node Names screen (Figure 6-8) in "Assign Node Names on Remote Switches (DEFINITY R7 and Later)" above.
Destination Port	Enter the logical channel number of the interface link. See Worksheet H, in Chapter 2, "Switch Integration Planning" for the correct interface channel number. The number is the node number of the switch.
Session Local	Enter the session number on the local switch. This typically is the same number as the processor channel, 59.
Session Remote	Enter the node number on the remote switch. This typically is the same number as the interface channel.
Mach ID	Enter the Machine-ID of the Intuity AUDIX system. If the Intuity AUDIX system does *not* serve several switches in a DCS, this number is typically 1. The Machine ID must agree with the AUDIX field entry on the Avaya INTUITY Switch Interface Administration screen.

3. After you enter the processor channel information, press (ENTER) to save the

information.

The system returns to the enter command: prompt.

Table 6-7 shows the field correlations between a remote G3r Processor Channel Assignment screen (Figure 6-11) and the Avaya INTUITY Switch Interface Administration screen. Compare these two screens and ensure that the field entries on these two screens must match as specified below.

Table 6-7.   Remote G3r or DEFINITY R5/6/7/8/9r and Avaya INTUITY System Correlations

G3r Processor Channel Assignment Screen Field	Avaya INTUITY Switch Interface Administration Screen Field
Interface Channel	Logical Channel
Remote Port	Logical Channel
Local Port	Switch Port
Machine-ID	AUDIX

Enable the Host to Remote Switch DCS Link

Perform the following procedure to enable the DCS link between the host switch and the remote switch.

⚠ CAUTION:

This procedure restarts all links on this interface. Perform it only after normal business hours.

4. Enter **change communication-interface links** (DEFINITY ECS R6 or earlier) or **change data-module <ext>** (DEFINITY ECS R7 or later).

   The system displays the Interface Links or Data Module screen (Figure 6-9 or Figure 6-10).

5. Enter **y** in the Enable (or Enable Link) field for the DCS link between the host switch and the remote switch. This is the same link you disabled in "Disable the Host to Remote Switch DCS Link" procedure above.

6. After you enter the processor channel information, press (ENTER) to save the information

   The system returns to the enter command: prompt.

7. Continue with the next procedure, "Assign the Hop Channel".

Assign the Hop Channel

Move to the host switch administration terminal. At the host switch, use the following procedure to establish a hop, or software data path, from the remote switch through the host switch to the Intuity AUDIX system.

Busyout the Host-to-Remote Switch DCS Link and the Host-to-Intuity AUDIX System Link

Use the following procedure to disable the DCS link between the remote switch and the host switch and between the host switch and the Intuity AUDIX system. Perform this procedure at the host DEFINITY G3r switch.

> ⚠ **CAUTION:**
> *This procedure disables DCS transparency. Perform it only after normal business hours.*

1. Enter **busyout link *DCS link number for host to remote switch*** to busy out the link.

2. Enter **busyout link *link number for host to Intuity AUDIX system*** to busy out the link.

3. Enter **change communication-interface links** (DEFINITY ECS R6 or earlier) or **change data-module <ext>** for the DCS data module (DEFINITY ECS R7 or later).

   The system displays the Interface Links or Data Module screen (Figure 6-9 or Figure 6-10).

4. Enter **n** in the `Enable` field for the DCS link between the host switch and the remote switch.

5. (For DEFINITY R6 or earlier) Enter **n** in the `Enable` field for the link between the host switch and the Intuity AUDIX system.

6. Press `ENTER` to save the information.

   The system returns to the `enter command:` prompt.

7. (For DEFINITY R7 or later) Enter **change data-module <ext>** for the AUDIX data module.

   The system displays the Data Module screen (Figure 6-10).

8. Enter **n** in the `Enable Link` field for the link between the host switch and the Intuity AUDIX system.

9. Press `ENTER` to save the information.

   The system returns to the `enter command:` prompt.

Administer the Hop Channel Assignment Screen

1. Enter **change communication-interface hop-channels** at the switch administration terminal.

   The system displays the Hop Channel Assignment screen (Figure 6-13).

```
 change communication-interface hop-channels                  Page 1 of 4


                           HOP CHANNEL ASSIGNMENT
Index  Link/Channel A   Link/Channel B  Index  Link/Channel A   Link/Channel B
   1:  5        4          1        4      17:  __       __        __      __
   2:  __       __         __       __     18:  __       __        __      __
   3:  __       __         __       __     19:  __       __        __      __
   4:  __       __         __       __     20:  __       __        __      __
   5:  __       __         __       __     21:  __       __        __      __
   6:  __       __         __       __     22:  __       __        __      __
   7:  __       __         __       __     23:  __       __        __      __
   8:  __       __         __       __     24:  __       __        __      __
   9:  __       __         __       __     25:  __       __        __      __
  10:  __       __         __       __     26:  __       __        __      __
  11:  __       __         __       __     27:  __       __        __      __
  12:  __       __         __       __     28:  __       __        __      __
  13:  __       __         __       __     29:  __       __        __      __
  14:  __       __         __       __     30:  __       __        __      __
  15:  __       __         __       __     31:  __       __        __      __
  16:  __       __         __       __     32:  __       __        __      __
```

Figure 6-13.   G3r Hop Channel Assignment Screen

2. Use Table 6-8 to enter the correct values in the fields in the Hop Channel Assignment screen.

Intuity Messaging Solutions
R5 DCIU integration with System 75 and DEFINITY Systems

Issue 1
January 2001

6 DCS Administration
Assign Node Names on Remote Switches (DEFINITY R7 and Later) *Page 6-30*

Table 6-8. Hop Channel Assignment Screen Entries (Host)

Field	Description
Link	Enter an interface link number from 1 through 16.
	For the first link, enter the Interface Link number from the host switch Processor Channel Assignment screen (Figure 6-14 or Figure 6-12) for the link that connects the remote switch to the host switch. Use the link busied out in the "Disable the Host to Remote Switch DCS Link" above.
	For the second link, enter the Interface Link from the host switch Processor Channel Assignment screen (Figure 6-14 or Figure 6-12) for the link that connects the "Disable the Host to Remote Switch DCS Link" above.
Channel A	Enter the Interface Channel number from the remote switch Processor Channel Assignment screen (Figure 6-14 or Figure 6-12) for the channel that connects the remote switch to the Intuity AUDIX system on the host switch.
Channel B	Enter the Remote Port from the remote switch Processor Channel Assignment screen (Figure 6-14 or Figure 6-12) for the channel that connects the remote switch to the Intuity AUDIX system. The value is also entered in the AUDIX Port Logical Channel field on the Avaya INTUITY Switch Interface Administration screen (Figure 6-2) for the remote switch.

3. After you enter the hop channel information, press ENTER to save the information.

   The system returns to the enter command: prompt.

Intuity Messaging Solutions
R5 DCIU integration with System 75 and DEFINITY Systems

Issue 1
January 2001

6 DCS Administration
Assign Node Names on Remote Switches (DEFINITY R7 and Later)   *Page 6-31*

Release the Host-to-Remote Switch DCS Link and the Host-to-Intuity AUDIX System Link

Perform the following procedure to enable the DCS link between the host switch and the remote switch and the link between the host switch and the Intuity AUDIX system.

⚠ CAUTION:

This procedure restarts all links on this interface. Perform the procedure after normal business hours.

1. Enter **change communication-interface links** (DEFINITY ECS R6 or earlier) or **change data-module <ext>** for the DCS data module (DEFINITY ECS R7 or later).

   The system displays the Interface Links or Data Module screen (Figure 6-9 or Figure 6-10).

2. Enter **y** in the `Enable` field for the DCS link between the host switch and the remote switch.

3. (For DEFINITY R6 or earlier) Enter **y** in the `Enable` field for the link between the host switch and the Intuity AUDIX system.

4. Press `ENTER` to save the information.

   The system returns to the `enter command:` prompt.

5. (For DEFINITY R7 or later) Enter **change data-module <ext>** for the AUDIX data module.

   The system displays the Data Module screen (Figure 6-10).

6. Enter **y** in the `Enable Link` field for the link between the host switch and the Intuity AUDIX system.

7. Press `ENTER` to save the information.

   The system returns to the `enter command:` prompt.

8. Continue with "Assign the Processor Channel at the Remote Switch" below.

DCS+ Via ISDN-PRI D-Channel Administration

➡ NOTE:

Complete the instructions in this section if you plan to use a DCS network with an ISDN-PRI D-channel configuration. If you plan to use a DCS with BX.25 signaling, do not perform the instructions in this section. Instead, continue with "DCS with BX.25 Signaling Administration" below.

This section contains procedures for administering an Intuity AUDIX system on a G3r switch in a DCS using an ISDN-PRI D-channel configuration, also called

Intuity Messaging Solutions
R5 DCIU integration with System 75 and DEFINITY Systems

Issue 1
January 2001

6 DCS Administration
Assign Node Names on Remote Switches (DEFINITY R7 and Later)
Page 6-32

DCS+. Network design examples for Traditional DCS networks, D-channel DCS networks (private network only), D-channel DCS networks (public network access/egress), Integrated DCS networks (private network only), and Integrated DCS networks (public network access) are provided in *DEFINITY ECS Administration and Feature Description Release 6, Issue 2* 555-230-522 or *DEFINITY ECS Release 7, 8, 9 Administration for Network Connectivity* (555-230-504).

Assign the Processor Channel at the Host Switch DCS

Use the following procedure to assign a processor channel as the gateway between the Intuity AUDIX system and the remote switch. Perform this procedure at the G3r host switch.

1. Enter **change communication-interface processor-channels**

   The system displays the Processor Channel Assignment screen (Figure 6-14).

```
change communication-interface processor channels          Page 1 of 4
                    PROCESSOR CHANNEL ASSIGNMENT

Proc              Interface        Local      Remote    Adjunct
Chan   Application Link  Chan       Port        Port      Name     Machine-ID

 1:     _____    _    __         _____        __       _____     ___
 2:     _____    _    __         _____        __       _____     ___
 3:     _____    _    __         _____        __       _____     ___
 4:     _____    _    __         _____        __       _____     ___
 5:     _____    _    __         _____        __       _____     ___
 6:     _____    _    __         _____        __       _____     ___
 7:     _____    _    __         _____        __       _____     ___
 8:     _____    _    __         _____        __       _____     ___
 9:     _____    _    __         _____        __       _____     ___
10:     _____    _    __         _____        __       _____     ___
11:     _____    _    __         _____        __       _____     ___
12:     _____    _    __         _____        __       _____     ___
13:     AUDIX     5    1           59          1        AUDIX1     4
14:     gateway   5    4           60          4
15:     _____    _    __         _____        __       _____     ___
16:     _____    _    __         _____        __       _____     ___
```

Figure 6-14. Processor Channel Assignment Screen-ISDN Gateway (DEFINITY R6 or Earlier)

```
                    PROCESSOR CHANNEL ASSIGNMENT

Proc             Gtwy         Interface      Destination      Session    Mach
Chan  Enable  Appl.  To  Mode Link/Chan    Node       Port  Local/Remote  ID
  1:    _   _____    _    __  _____  _____  0____  ___  ___   __
  2:    _   _____    _    __  _____  _____  0____  ___  ___   __
  3:    _   _____    _    __  _____  _____  0____  ___  ___   __
  4:    _   _____    _    __  _____  _____  0____  ___  ___   __
  5:    _   _____    _    __  _____  _____  0____  ___  ___   __
  6:    _   _____    _    __  _____  _____  0____  ___  ___   __
  7:    _   _____    _    __  _____  _____  0____  ___  ___   __
  8:    _   _____    _    __  _____  _____  0____  ___  ___   __
  9:    _   _____    _    __  _____  _____  0____  ___  ___   __
 10:    _   _____    _    __  _____  _____  0____  ___  ___   __
 11:    _   _____    _    __  _____  _____  0____  ___  ___   __
 12:    _   _____    _    __  _____  _____  0____  ___  ___   __
 13:    y   AUDIX __    _    5_  1_____  AUDIX1___  0____  59_  1__   4_
 14:    _   gateway_    _    5_  4_____  _____  0____  60_  4__   __
 15:    _   _____    _    __  _____  _____  0____  ___  ___   __
 16:    _   _____    _    __  _____  _____  0____  ___  ___   __
```

Figure 6-15. **Sample Processor Channel Assignment Screen-ISDN Gateway (DEFINITY R7 and later)**

2. Enter the correct values in the fields. Use Table 6-9 or Table 6-10 to complete the Processor Channel Assignment screen.

Table 6-9.   Processor Channel Assignment Screen Entries (ISDN Gateway)

Field	Description and Instructions
Proc Chan	A display-only field used to number each of the 128 processor channels. Select an unused processor channel from 1 to 128. The processor channel provides a gateway on the host G3r switch.
Application	Enter **gateway** to identify the channel application as an ISDN over PRI D-channel gateway.
Interface Link	Enter the Interface Link number from the host switch Interface Links screen (Figure 6-9) for the Intuity AUDIX system link.
Interface Channel	Enter the logical channel number of the interface link. See Worksheet M, in Chapter 2, "Switch Integration Planning" for the correct interface channel number. The number is the node number of the switch.
Local Port	Enter the Switch Port number used on the Avaya INTUITY Switch Interface Administration screen (Figure 6-2).
Remote Port	Enter the logical channel number of the interface link. See Worksheet M, in Chapter 2, "Switch Integration Planning" for the correct interface channel number. The number is the node number of the switch.
Adjunct Name	Leave this field blank.
Machine-ID	Leave this field blank.

Intuity Messaging Solutions
R5 DCIU integration with System 75 and DEFINITY Systems

Issue 1
January 2001

6 DCS Administration
Assign Node Names on Remote Switches (DEFINITY R7 and Later) *Page 6-35*

Table 6-10. Processor Channel Assignment Screen Entries (DEFINITY R7 or Later)

Field	Description and Instructions
Proc Chan	This is a display-only field used to number each of the 128 processor channels. Any processor channel can be used for the Intuity AUDIX system, but 59 is the typical channel used.
Enable	Enter **y**.
Appl.	Enter **gateway**.
Gtwy To	Leave this field blank.
Mode	Leave this field blank.
Interface Link	Enter the number of the Interface Link on the BX.25 Data Module screen Figure 6-10. Worksheet M, in Chapter 2, "Switch Integration Planning" lists the Interface Link number.
Interface Chan	Enter the logical channel number of the interface link. See Worksheet M, in Chapter 2, "Switch Integration Planning" for the correct interface channel number. The number is the node number of the switch.
Destination Node	Leave this field blank.
Destination Port	Enter the logical channel number of the interface link. See Worksheet M, in Chapter 2, "Switch Integration Planning" for the correct interface channel number. The number is the node number of the switch.
Session Local	Enter the Switch Port number used on the Avaya INTUITY Switch Interface Administration screen (Figure 6-2).
Session Remote	Enter the logical channel number of the interface link. See Worksheet M, in Chapter 2, "Switch Integration Planning" for the correct interface channel number. The number is the node number of the switch.
Mach ID	Leave this field blank.

3. After you enter the information, press ENTER to save the information.

   The system returns to the enter command prompt.

4. Continue with the next procedure, "Assign the Signaling Group at the Host Switch".

Assign the Signaling Group at the Host Switch

Use the signaling group screen to administer the call-associated (CA) and
non-call associated (NCA) Temporary Signaling Connections (TSC) used to
support DCS over the ISDN PRI D-channel.

Before you assign the signaling group at the host switch, confirm that the steps in
the following list have been completed. The steps are part of the regular DCS
switch administration process and enable voice communications on the DCS
connection between the host switch and the remote switch. The Intuity AUDIX
system uses the existing DCS trunks for both data and voice communications.
See *DEFINITY ECS Administration and Feature Description Release 6,*
555-230-522, Issue 2, or *DEFINITY ECS Release 7, 8, 9 Administration for
Network Connectivity,* 555-230-504, for more information.

■ Configure DCS on a trunk group between the host switch and the remote
switch with Used for DCS set to **y** and DCS Signaling set to **d-chan**
by using the **change trunk-group** *number* command. The example in
Figure 6-16 uses trunk group number 65.

■ Configure a Uniform Dial Plan with a UDP code routing treatment for use
on the trunk group between the host switch and the remote switch by using
the **add udp** command.

■ Define the UDP code on the AAR (Automatic Alternate Routing) Digit
Analysis Table by using the **change aar analysis** *number* command. The
AAR digit analysis table routes the call.

■ Define a route pattern for the UDP code on the trunk group by using the
add route-pattern *number* command. The example in Figure 6-16 uses
trunk group number 65.

After you complete the checklist, perform the following steps on the G3r host
switch.

1. Enter **change signaling-group *x*** where x is the signaling group
associated with the DCS non-call associated temporary signaling
connection (NCA-TSC) on the remote switch. The action assumes that
DCS is administered already on this signaling channel.

The system displays the Signaling Group screen (Figure 6-16).

```
                                                      Page 1 of 5
                            SIGNALING GROUP

Group Number: 2                 Group Type: isdn-pri
                    Associated Signaling? n          Max number of NCA TSC: 0
                        Primary D-Channel: 01A0324    Max number of CA TSC: 0
                      Secondary D-Channel: 01C1524  Trunk Group for NCA TSC:
       Trunk Group for Channel Selection:           X-Mobility/Wireless Type: NONE
          Supplementary Service Protocol: a

          Trunk Brd      Interface ID         Trunk Brd      Interface ID
            1:01A03          0                   11:
            2:01C15       1                  12:
            3:                               13:
            4:                               14:
            5:                               15:
            6:                               16:
            7:                               17:
            8:                               18:
            9:                               19:
           10:                            20:
```
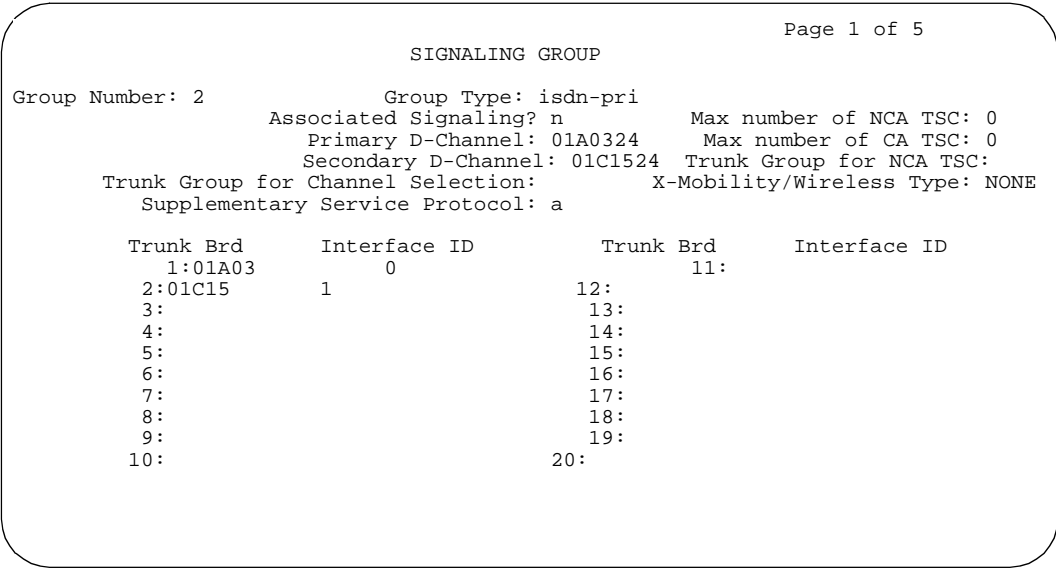
Figure 6-16.　Sample Remote Signaling Group Screen on the Host Switch, Page 1

2. Use Table 6-11 to enter the correct values in the fields on the Signaling
   Group screen.

Intuity Messaging Solutions
R5 DCIU integration with System 75 and DEFINITY Systems

Issue 1
January 2001

6 DCS Administration
Assign Node Names on Remote Switches (DEFINITY R7 and Later) Page 6-38

Table 6-**11. Page 1 Signaling Group Screen Entries for the Host Switch**

Field	Description and Instructions
Group Number:	This field displays the signaling group number.
Group Type	Enter **isdn-pri**
Associated Signaling:	Enter **n** to indicate Non-Facility Associated Signaling.
Primary D-channel:	Enter the 5- to 6-character port number associated with the DS1 Interface circuit card port. Currently, with FAS and NFAS, the port is always the 24th port on the DS1 Interface circuit card used to assign the primary D-channel in the signaling group. Locate the Primary D-channel assignment on the Processor Port Network when possible, for example Port Network 1. The default is a blank.
Secondary D-channel:	Enter the 5- to 6-character port number associated with the DS1 Interface circuit card port. Currently, with FAS and NFAS, the port is always the 24th port on the DS1 Interface circuit card. The default is a blank.
Max Number of NCA TSC:	Increment this field entry by 1. For example, if the entry is 2, change the entry to 3. The field indicates the maximum number of simultaneous Non-Call Associated Temporary Signaling Connections (NCA-TSCs) that can exist in the Signaling Group. The number includes all NCA-TSCs administered on Pages 2-5 of the signaling Group screen and those NCA-TSCs that tandem through the switch in route to another switch in the network. Valid entries are a number 0-256 and the default is 0.
Max number of CA TSC:	Enter the maximum number of simultaneous Call Associated Temporary Signaling Connections (CA-TSCs) that can exist in the signaling group. Valid entries are a number 0–400. The default is 0.
Trunk Group for NCA TSC:	Enter the ISDN-PRI trunk group number that contains the incoming call handling table used to handle incoming NCA-TSCs through the signaling group. Valid entries are a number 1-666. The default is blank.
Trunk Group for Channel Selection (DEFINITY R7 or later)	Leave this field blank.

Intuity Messaging Solutions
R5 DCIU integration with System 75 and DEFINITY Systems

Issue 1
January 2001

6 DCS Administration
Assign Node Names on Remote Switches (DEFINITY R7 and Later)

Page 6-39

Field	Description and Instructions
X-Mobility/Wireless Type (DEFINITY R7 or later)	Enter **NONE**
Supplementary Service Protocol (DEFINITY R7 or later)	Enter **a** for X.25 DCS. Enter **b** for QSIG.
Trunk Brd	This field is displayed when Associated Signaling is **n** which indicates NFAS. Enter the 5-character DS1 Interface circuit card number that has trunk members belonging to the signaling group. The default is a blank.
Interface ID	This field is displayed when Associated Signaling is **n** which indicates NFAS. Enter an interface ID (0–31) for the corresponding DS1 Interface circuit card. In an NFAS Signaling Group, an Interface ID must be assigned to each DS1 facility so that the facility can be referenced by both interfacing switches. The Interface ID numbers on both ends must be the same.

3. After you enter the correct information in each field, press ENTER to save the information.

   The system refreshes the screen.

4. Press NEXTPAGE to move to the page 2 of the Signaling Group screen (Figure 6-17).

```
          Page 2 of 5
ADMINISTERED NCA TSC ASSIGNMENT

Service/Feature:                As-needed Inactivity Time-out (min): 30
 TSC    Local                                          Adj.  Mach.
Index    Ext.   Enabled  Establish    Dest. Digits   Appl.   Name    ID
    1:  59998      y     permanent      29998        dcs               1
    2:  59997      y     permanent      29997        gateway          __
    3:  _____      _     _____    _____  _____    _____  __
    4:  _____      _     _____    _____  _____    _____  __
    5:  _____      _     _____    _____  _____    _____  __
    6:  _____      _     _____    _____  _____    _____  __
    7:  _____      _     _____    _____  _____    _____  __
    8:  _____      _     _____    _____  _____    _____  __
    9:  _____      _     _____    _____  _____    _____  __
   10:  _____      _     _____    _____  _____    _____  __
   11:  _____      _     _____    _____  _____    _____  __
   12:  _____      _     _____    _____  _____    _____  __
   13:  _____      _     _____    _____  _____    _____  __
   14:  _____      _     _____    _____  _____    _____  __
   15:  _____      _     _____    _____  _____    _____  __
   16:  _____      _     _____    _____  _____    _____  __
```

Figure 6-17.   Sample G3r Signaling Group Screen for the Host Switch, Page 2

5. Use Table 6-12 to enter the correct values on page 2 of the Signaling
   Group screen.

Intuity Messaging Solutions
R5 DCIU integration with System 75 and DEFINITY Systems

Issue 1
January 2001

6 DCS Administration
Assign Node Names on Remote Switches (DEFINITY R7 and Later)

Page 6-41

Table 6-**12.** **Signaling Group Screen Entries for the Host Switch**

Field	Description and Instructions
Service/Feature:	Enter the service type for all administered NCA-TSCs assigned in this signaling group. The default is a blank. Valid values are: ■ **accunet** ■ **i800** ■ **inwats** ■ **lds** ■ **mega800** ■ **megacom** ■ **multiquest** ■ **nca-tsc** ■ **operator** ■ **sdn** ■ **sub-operator** ■ **wats-max-bnd** ■ **[user-defined services]**
As-needed Inactivity Time-out (min):	Enter the inactivity time-out for as-needed NCA-TSCs assigned in the signaling group. An as-needed administered NCA-TSC staying inactive in this time period will be removed from service. Valid entries are 10 through 90. The default is a blank.
TSC Index	This is a display only field that shows the administered NCA TSC index representing one DCS logical channel connecting any two PBX.
Local Ext	Enter an unassigned extension number. This assigns an extension on the switch to the administered NCA-TSC.
Enabled	Enter **y**
Establish	Enter **permanent**
Dest. Digits	Enter the digits needed to route the administered NCA-TSC to the far-end switch. Valid entries are the digits 0–9, the plus sign (+), asterisk (*), and pound sign (#) special characters. Entries can include up to 15 digits. The default is a blank.

Intuity Messaging Solutions
R5 DCIU integration with System 75 and DEFINITY Systems

Issue 1
January 2001

6 DCS Administration
Assign Node Names on Remote Switches (DEFINITY R7 and Later) *Page 6-42*

Field	Description and Instructions
Appl.	Enter **gateway**
Adj. Name	Leave blank.
Machine ID	The host switch (local) number is usually 1. The remote switch number must be different than the host switch number.

6. After you enter the information, press $\boxed{\text{ENTER}}$ to save the information.

   The system returns to the command prompt.

7. Continue with the next procedure, "Assign the ISDN TSC Gateway Channel at the Host Switch".

Assign the ISDN TSC Gateway Channel at the Host Switch

This procedure maps a signaling group/TSC-index pair, completed in "Assign the Signaling Group at the Host Switch" above, to the processor channel used by the Intuity AUDIX system completed in "Assign the Processor Channel at the Host Switch DCS" above. Perform this procedure at the G3r host switch.

1. Enter **change isdn tsc-gateway** at the enter command prompt.

   The system displays the ISDN TSC Gateway Channel Assignment screen (Figure 6-18).

Intuity Messaging Solutions
R5 DCIU integration with System 75 and DEFINITY Systems

Issue 1
January 2001

6 DCS Administration
Assign Node Names on Remote Switches (DEFINITY R7 and Later) *Page 6-43*

```
change isdn tsc-gateway                                         Page 1 of 4

ISDN TSC GATEWAY CHANNEL ASSIGNMENT

  Sig   Adm'd NCA  Processor  Appli-    Sig   Adm'd NCA  Processor  Appli-
 Group  TSC Index  Channel    cation   Group  TSC Index  Channel    cation
 1: 2     2          14       AUDIX    17:___    __        ___       _____
 2:___    __         ___      _____   18:___    __        ___       _____
 3:___    __         ___      _____   19:___    __        ___       _____
 4:___    __         ___      _____   20:___    __        ___       _____
 5:___    __         ___      _____   21:___    __        ___       _____
 6:___    __         ___      _____   22:___    __        ___       _____
 7:___    __         ___      _____   23:___    __        ___       _____
 8:___    __         ___      _____   24:___    __        ___       _____
 9:___    __         ___      _____   25:___    __        ___       _____
10:___    __         ___      _____   26:___    __        ___       _____
11:___    __         ___      _____   27:___    __        ___       _____
12:___    __         ___      _____   28:___    __        ___       _____
13:___    __         ___      _____   29:___    __        ___       _____
14:___    __         ___      _____   30:___    __        ___       _____
15:___    __         ___      _____   31:___    __        ___       _____
16:___    __         ___      _____   32:___    __        ___       _____
```

Figure 6-18.   ISDN TSC Gateway Channel Assignment G3r Screen

2. Use Table 6-13 to enter the correct values in the fields on the ISDN TSC Gateway Channel Assignment G3r screen.

Table 6-13.   ISDN TSC Gateway Channel Assignment Screen Entries

Field	Description and Instructions
Sig Group	Enter the Group Number from page 1 of the Signaling Group screen you entered in "Assign the Signaling Group at the Host Switch" above.
Adm'd NCA TSC Index	Enter the TSC Index chosen on the Signaling Group screen in "Assign the Signaling Group at the Host Switch" above.
Processor Channel	Enter the processor channel chosen in the "Assign the Processor Channel at the Host Switch DCS" above.
Application	Enter **AUDIX**

3. After you enter the information, press ⌐ENTER¬ to save the information.

   The system returns to the enter command: prompt.

4. Continue with the next procedure, "Administer DCS through ISDN-PRI at the Remote Switch".

Administer DCS through ISDN-PRI at the Remote Switch

Before you assign the signaling group at the remote switch, confirm that the steps in the list have been completed. The steps are part of the regular DCS switch administration process and enable voice communications on the DCS connection between the remote switch and the host switch. The Intuity AUDIX system uses the existing DCS trunks for both data and voice communications. See *DEFINITY ECS Administration and Feature Description Release 6, Issue 2* 555-230-522, for more information.

- Use the **change trunk-group *number*** command to configure DCS on a trunk group between the remote switch and the host switch with Used for DCS set to **y** and DCS Signaling set to **d-chan**.

- Configure a Uniform Dialing Plan with a UDP code routing treatment for the trunk group between the remote switch and the host switch by using the **add udp *number*** command.

- Define the uniform dialing plan code on the AAR (Automatic Alternate Routing) Digit Analysis Table by using the **change aar analysis *number*** command. The AAR digit analysis table routes calls.

- Define a route pattern for the uniform dialing plan code on the trunk group by using the **add route-pattern *number*** command.

The Signaling Group screen assigns the call-associated (CA) and non-call associated (NCA) temporary signaling connections (TSCs) for ISDN-DCS trunk groups on the remote switch. Perform this procedure at the G3r remote switch.

1. Enter **change signaling-group *x*** where x is the signaling group associated with the DCS non-call-associated temporary signaling connection (NCA-TSC) on the host switch. The action assumes that DCS is administered already on this signaling channel.

   The system displays the Signaling Group screen (Figure 6-19).

```
                                                      Page 1 of 5
                            SIGNALING GROUP

Group Number: 2                  Group Type: isdn-pri
                  Associated Signaling? n          Max number of NCA TSC: 0
                    Primary D-Channel: 01A0324     Max number of CA TSC: 0
                  Secondary D-Channel: 01C1524  Trunk Group for NCA TSC:
     Trunk Group for Channel Selection:          X-Mobility/Wireless Type: NONE
       Supplementary Service Protocol: a

       Trunk Brd       Interface ID       Trunk Brd       Interface ID
         1:01A03           0                 11:
         2:01C15           1               12:
         3:                                13:
         4:                                14:
         5:                                15:
         6:                                16:
         7:                                17:
         8:                                18:
         9:                                19:
        10:                          20:
```
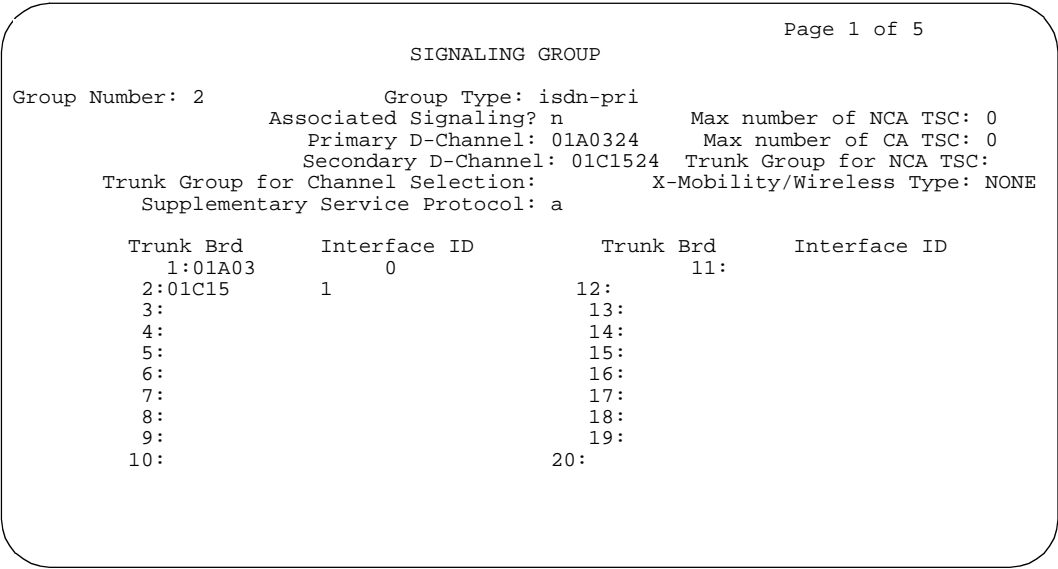
Figure 6-19.   Sample Remote Signaling Group Screen on the Host Switch, Page 1

2. Use Table 6-14 to enter the correct values in the fields on the Signaling Group screen.

Intuity Messaging Solutions
R5 DCIU integration with System 75 and DEFINITY Systems

Issue 1
January 2001

6 DCS Administration
Assign Node Names on Remote Switches (DEFINITY R7 and Later)　　　*Page 6-46*

Table 6-**14.　Page 1 Signaling Group Screen Entries for the Host Switch**

Field	Description and Instructions
`Group Number:`	This field displays the signaling group number.
`Group Type`	Enter **isdn-pri**
`Associated Signaling:`	Enter **n** to indicate Non-Facility Associated Signaling.
`Primary D-channel:`	Enter the 5- to 6-character port number associated with the DS1 Interface circuit card port. Currently, with FAS and NFAS, the port is always the 24th port on the DS1 Interface circuit card used to assign the primary D-channel in the signaling group. Locate the Primary D-channel assignment on the Processor Port Network when possible, for example Port Network 1. The default is a blank.
`Secondary D-channel:`	Enter the 5- to 6-character port number associated with the DS1 Interface circuit card port. Currently, with FAS and NFAS, the port is always the 24th port on the DS1 Interface circuit card. The default is a blank.
`Max Number of NCA TSC:`	Increment this field entry by 1. For example, if the entry is 2, change the entry to 3. The field indicates the maximum number of simultaneous Non-Call Associated Temporary Signaling Connections (NCA-TSCs) that can exist in the Signaling Group. The number includes all NCA-TSCs administered on Pages 2-5 of the signaling Group screen and those NCA-TSCs that tandem through the switch in route to another switch in the network. Valid entries are a number 0-256 and the default is 0.
`Max number of CA TSC:`	Enter the maximum number of simultaneous Call Associated Temporary Signaling Connections (CA-TSCs) that can exist in the signaling group. Valid entries are a number 0–400. The default is 0.
`Trunk Group for NCA TSC:`	Enter the ISDN-PRI trunk group number that contains the incoming call handling table used to handle incoming NCA-TSCs through the signaling group. Valid entries are a number 1-666. The default is blank.
`Trunk Group for Channel Selection` (DEFINITY R7 or later)	Leave this field blank.

Intuity Messaging Solutions
R5 DCIU integration with System 75 and DEFINITY Systems

Issue 1
January 2001

6 DCS Administration
Assign Node Names on Remote Switches (DEFINITY R7 and Later) *Page 6-47*

Field	Description and Instructions
X-Mobility/Wireless Type (DEFINITY R7 or later)	Enter **NONE**
Supplementary Service Protocol (DEFINITY R7 or later)	Enter **a** for X.25 DCS. Enter **b** for QSIG.
Trunk Brd	This field is displayed when Associated Signaling is **n** which indicates NFAS. Enter the 5-character DS1 Interface circuit card number that has trunk members belonging to the signaling group. The default is a blank.
Interface ID	This field is displayed when Associated Signaling is **n** which indicates NFAS. Enter an interface ID (0–31) for the corresponding DS1 Interface circuit card. In an NFAS Signaling Group, an Interface ID must be assigned to each DS1 facility so that the facility can be referenced by both interfacing switches. The Interface ID numbers on both ends must be the same.

3. After you enter the correct information in each field, press [ENTER] to save the information.

   The system refreshes the screen.

4. Press [NEXTPAGE] to move to the page 2 of the Signaling Group screen (Figure 6-20).

```
                                                            Page 2 of 5
  ADMINISTERED NCA TSC ASSIGNMENT

  Service/Feature:                As-needed Inactivity Time-out (min):

  TSC Index    Local Ext.  Enabled  Establish  Dest. Digits  Appl.  Machine ID
     1:          29998        y      permanent      59998      dcs       3
     2:          29997        y      permanent      59997      AUDIX     4
     3:          _____        _      _____   _____   _____    ___
     4:          _____        _      _____   _____   _____    ___
     5:          _____        _      _____   _____   _____    ___
     6:          _____        _      _____   _____   _____    ___
     7:          _____        _      _____   _____   _____    ___
     8:          _____        _      _____   _____   _____    ___
     9:          _____        _      _____   _____   _____    ___
    10:          _____        _      _____   _____   _____    ___
    11:          _____        _      _____   _____   _____    ___
    12:          _____        _      _____   _____   _____    ___
    13:          _____        _      _____   _____   _____    ___
    14:          _____        _      _____   _____   _____    ___
    15:          _____        _      _____   _____   _____    ___
    16:          _____        _      _____   _____   _____    ___
```

Figure 6-20.　Sample G3r Signaling Group Screen, Page 2, on the Remote Switch

>　5.　Use <u>Table 6-15</u> to enter the correct values on the second page of the
>　　　Signaling Group screen.

Table 6-15. Page 2 Signaling Group Screen Entries for the Remote Switch

Field	Description and Instructions
Service Feature	Enter the service type for all administered NCA-TSCs assigned in this signaling group. Valid entries are: ■ **accunet** ■ **i800** ■ **inwats** ■ **lds** ■ **mega800** ■ **megacom** ■ **multiquest** ■ **nca-tsc** ■ **operator** ■ **sdn** ■ **sub-operator** ■ **wats-max-bnd** ■ **[user-defined services]** The default is a blank.
As-needed Inactivity Time-out (min):	Enter the inactivity time-out for as-needed NCA-TSCs assigned in the Signaling Group. An as-needed administered NCA-TSC staying inactive in this time period will be removed from service. Valid entries are 10 through 90 and the default is blank.
TSC Index	Enter the TSC Index chosen on the host switch in "Assign the Signaling Group at the Host Switch" above. The administered NCA TSC index represents one DCS logical channel connecting any two Pax.
Local Ext	Enter the Dest. Digits entered on the host switch in "Assign the Signaling Group at the Host Switch" above.
Enabled	Enter **y**
Establish	Enter **permanent**
Dest. Digits	Enter the Local Ext. entered on the host switch in "Assign the Signaling Group at the Host Switch" above.

Intuity Messaging Solutions
R5 DCIU integration with System 75 and DEFINITY Systems

Issue 1
January 2001

6 DCS Administration
Assign Node Names on Remote Switches (DEFINITY R7 and Later) Page 6-50

Field	Description and Instructions
Appl.	Enter **AUDIX**
Adj. Name	Enter the name of the Intuity AUDIX system as you enter the name on the G3r User Defined Adjunct Names screen (Figure 6-7).
Machine ID	Enter the Machine ID of the far-end switch to which this administered NCA-TSC is to be connected.

6. After you enter the information, press (ENTER) to save the information.

   The system returns to the command prompt.

7. Continue with the next procedure, "Assign the Hunt Group at the Remote Switch".

Assign the Hunt Group at the Remote Switch

This section contains procedures for administering a Hunt Group for the Intuity AUDIX system on a G3r remote switch. DCS connectivity must have been previously administered.

If the Intuity AUDIX system is supporting a DCS network, assign the remote Intuity AUDIX system (rem-AUDIX) hunt group with the host switch Intuity AUDIX system AUDIX Extension number. You do not need to perform any administration on the host switch.

1. Enter **add hunt-group** *hunt group number* at the remote switch administration terminal to assign a new hunt group.

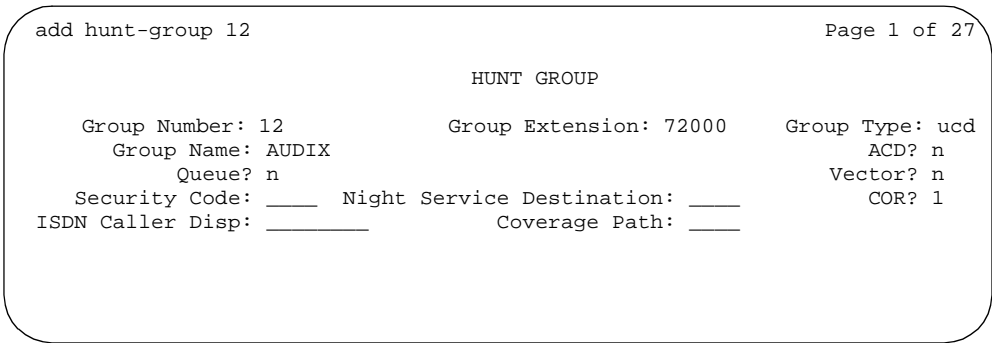   The system displays page 1 of the Hunt Group screen (Figure 6-21).

```
add hunt-group 12                                         Page 1 of 27

                             HUNT GROUP

   Group Number: 12           Group Extension: 72000    Group Type: ucd
     Group Name: AUDIX                                         ACD? n
         Queue? n                                           Vector? n
  Security Code: ____   Night Service Destination: ____        COR? 1
ISDN Caller Disp: _____          Coverage Path: ____
```

Figure 6-21. Sample Hunt Group Screen, Page 1, on the Remote Switch (DEFINITY R6 or Earlier)

Intuity Messaging Solutions
R5 DCIU integration with System 75 and DEFINITY Systems

Issue 1
January 2001

6 DCS Administration
Assign Node Names on Remote Switches (DEFINITY R7 and Later)

Page 6-51

```
add   hunt-group x                                          Page 1 of X
                          HUNT GROUP

          Group Number: 10_                              ACD? n
            Group Name: AUDIX 1_____   Queue? n
       Group Extension: 72000                            Vector? n
            Group Type: ucd-mia               Coverage Path: ____
                    TN: 1__         Night Service Destination: _____
                   COR: 1                   MM Early Answer? _
        Security Code: ____
   ISDN Caller Display: _____
```

Figure 6-22.   Sample Hunt Group Screen, Page 1, on the Remote Switch (DEFINITY R7 or Earlier)

    2. Use <u>Table 6-16</u> to enter the correct field values on the page 1 of the Hunt Group screen.

Intuity Messaging Solutions
R5 DCIU integration with System 75 and DEFINITY Systems

Issue 1
January 2001

6 DCS Administration
Assign Node Names on Remote Switches (DEFINITY R7 and Later)

Page 6-52

Table 6-16. G3r or R5/6/7/8/9r Hunt Group Screen Entries, Page 1

Field	Description and Instructions
Group Name:	Enter the name you want display set subscribers to see when they call the INTUITY AUDIX system to access voice messaging features. This name may consist of up to 15 characters.
Group Number:	This field contains the hunt group number assigned to the hunt group after you entered the **add hunt-group** command. This should be the same number listed on Worksheet J in Chapter 2, "Switch Integration Planning".
Group Extension:	Enter an unused extension number of 3–5 digits to be assigned to the hunt group. This is the extension subscribers at the remote switch dial to access voice messaging features. See Worksheet J in Chapter 2, "Switch Integration Planning", for the hunt group extension.
Group Type:	Enter **ucd** (DEFINITY R6 or earlier) or **ucd-mia** (DEFINITY R7 or later).
Skill?	Enter **n** ⇒ **NOTE:** This field may or may not appear on the form.
ACD?	Enter **n** ⇒ **NOTE:** The Intuity AUDIX system voice ports do not operate in an ACD group.
Queue?	Enter **y** ⇒ **NOTE:** A queue is optional but recommended. See Worksheet J in Chapter 2, "Switch Integration Planning", for the appropriate value.
Vector?	Enter **n** The INTUITY AUDIX hunt group may be vector-controlled. See Worksheet J in Chapter 2, "Switch Integration Planning", for the appropriate value.
Security Code:	Leave this field blank.

Intuity Messaging Solutions
R5 DCIU integration with System 75 and DEFINITY Systems

Issue 1
January 2001

6 DCS Administration
Assign Node Names on Remote Switches (DEFINITY R7 and Later)

Page 6-53

Field	Description and Instructions
Night Service Destination:	Enter the destination where calls to this hunt group redirect when the hunt group is in the night service mode. Allowable entries are an assigned extension number, the attendant, or a blank. Leave the field blank for most applications unless the application requires calls to be redirected when the hunt group is in night service mode.
COR:	Enter the Class of Restriction listed on Worksheet J in Chapter 2, "Switch Integration Planning".
ISDN Caller Disp:	Enter **grp-name** or **mbr-name** to specify whether the hunt group name or member name will be sent to the originating subscriber. Use the hunt group name for most applications. This field is required when the ISDN-PRI option on the switch System-Parameters Customer-Options screen is enabled. If ISDN-PRI is not enabled, leave the field blank. See Worksheet J in Chapter 2, "Switch Integration Planning", for the correct value.
Coverage Path:	Leave this field blank. If you enter a coverage path, the switch will send calls to the coverage point. This may interfere with the INTUITY AUDIX system.
TN:	Enter the tenant partition number. The default is 1.
Queue Length:	If you entered **y** in the Queue field, you must enter a queue length here. Avaya Communications recommends that you use a queue length equal to the number of INTUITY AUDIX voice ports configured for the INTUITY AUDIX system.
Calls Warning Threshold:	Leave this field blank.
Time Warning Threshold:	Leave this field blank.
Calls Warning Port:	Leave this field blank.
Time Warning Port:	Leave this field blank.

3. After you enter the correct information in each field, press (ENTER) to save the information.

   The system refreshes the screen.

4. Press (NEXTPAGE) to move to page 2 of the Hunt Group screen (Figure 6-23) or (Figure 6-24).

Intuity Messaging Solutions
R5 DCIU integration with System 75 and DEFINITY Systems

Issue 1
January 2001

6 DCS Administration
Assign Node Names on Remote Switches (DEFINITY R7 and Later)

Page 6-54

```
                                                              Page 2 of X
                              HUNT GROUP
                Message Center: AUDIX____          AUDIX Extension: 12000
    Message Center AUDIX Name: AUDIX 1                     Primary? y
              LWC Reception: _____
                 AUDIX Name: AUDIX 1
       Messaging Server Name: _____
      First Announcement Extension: _____      First Announcement Delay (sec): __
```

Figure 6-23.   Sample Hunt Group Screen, Page 2 (DEFINITY R6 or Earlier)

```
                                                              Page 2 of X
                              HUNT GROUP

                     Message Center: AUDIX____

            Message Center AUDIX Name: AUDIX 1

                               Primary? y
    Calling Party Number to INTUITY AUDIX:
                       LWC Reception: _____
                          AUDIX Name: AUDIX 1
               Messaging Server Name: _____
```

Figure 6-24.   Sample Hunt Group Screen, Page 2 (DEFINITY R7 or Later)

5. Use Table 6-17 to enter the correct values in the fields on page 2 of the
Hunt Group screen.

Intuity Messaging Solutions
R5 DCIU integration with System 75 and DEFINITY Systems

Issue 1
January 2001

6 DCS Administration
Assign Node Names on Remote Switches (DEFINITY R7 and Later) **Page 6-55**

Table 6-17. Hunt Group Screen Entries for Page 2

Field	Description and Instructions
Message Center:	Enter **rem-audix**.
AUDIX Extension:	Enter the extension of the AUDIX hunt group on the remote switch.
Message Center AUDIX Name:	Enter the name you assigned on the User Defined Adjunct Names (or Node Names) screen (Figure 6-7 or Figure 6-8) in "Assign User-Defined Adjunct Names to Remote Switches (DEFINITY R6 and Earlier)" or "Assign Node Names on Remote Switches (DEFINITY R7 and Later)" above.
Primary?	Enter **y**. If you want the INTUITY AUDIX system to answer. If you do not enter **y**, the INTUITY AUDIX system will not answer. (R5r & later.)
Calling Party Number to Intuity AUDIX:	Enter **y** or **n**. **y** sends the calling party number to Intuity AUDIX.
LWC Reception:	Enter **none** to identify your desired leave word calling destination for this hunt group.
AUDIX Name:	Enter the name of the AUDIX machine as it appears in the User-Defined Adjunct Names or Node Names screen.
Messaging Server Name:	Leave this field blank.
First Announcement Extension:	This field identifies the announcement a caller receives after being in the queue for the time interval specified in the First Announcement Delay field. Enter a recorded announcement extension number or leave this field blank. Chapter 10, "Optional Switch Administration for Intuity AUDIX System Features", contains instructions for setting up recorded announcements.
First Announcement Delay (sec):	This field is optional if the queue field contains **y** and must be left blank if there is no first announcement. Enter the number of seconds that a call can remain in queue before the calling party receives the first announcement.

6. After you enter the correct information in each field, press (ENTER) to save the information.

   The system returns to the command prompt.

Intuity Messaging Solutions
R5 DCIU integration with System 75 and DEFINITY Systems

Issue 1
January 2001

6 DCS Administration
Assign Node Names on Remote Switches (DEFINITY R7 and Later)

Page 6-56

7. Continue with below to administer the subscribers on the remote switch.

Intuity Messaging Solutions
R5 DCIU integration with System 75 and DEFINITY Systems

Issue 1
January 2001

6 DCS Administration
DCS Administration for G3 & R5/6 Switches (Other than G3r & R5/6r)   *Page 6-57*

DCS Administration for G3 & R5/6 Switches (Other than G3r & R5/6r)

This section explains how to administer a DEFINITY switch for a DCS network. Use the following table to determine which DCS administration tasks you must perform for your configuration.

DCS Administration Required Tasks

Configuration	Tasks Required
A DCS configuration via BX.25 Data Channels (does not apply to R6cis)	■ Administer DCS with BX.25 Signaling — Assign the Processor Channel at the Remote Switch — Assign the Hop Channel at the Host Switch ■ Assign the Hunt Group at the Remote Switch ■ Administer the Subscribers (Remote Switch) — Assign the Call Coverage Path for Subscribers (Remote Switch) — Modify the Station Screen for Each Remote Subscriber
A DCS+ configuration via ISDN-PRI D-channel	■ Administer DCS for the ISDN-PRI D-Channel — Assign the Processor Channel at the Host Switch — Assign the Signaling Group at the Host Switch — Assign the ISDN TSC Gateway Channel at the Host Switch — Administer DCS for ISDN-PRI at the Remote Switch ■ Assign the Hunt Group at the Remote Switch ■ Administer the Subscribers (Remote Switch)

➤ **NOTE:**
The examples in this section use the information shown below. <u>Do not</u> use this information to configure your system.

Remote (Node 1)		Host (Node 3)	
Processor Channel	3	Processor Channel	13
Interface Link	1	Interface Link	4

Remote (Node 1)		**Host (Node 3)**	
Interface Channel	4	Interface Channel	1
Local Port	3	Intuity AUDIX Machine-ID 4	4
Remote Port	4		

The host switch Processor Channel Assignment screen for the above example
would contain the following values for the DCS processor channel and the Intuity
AUDIX processor channel:

	DCS	**Intuity AUDIX**
Processor Channel	1	59
Application	dcs	AUDIX
Interface Link	1	4
Interface Channel	2	1
Priority	h	h
Remote Proc Channel	2	1
Machine_ID	1	4

Figure 6-2 shows an Avaya INTUITY Switch Interface Administration screen that
illustrates the above example.

DCS with BX.25 Signaling Administration

Complete the instructions in this section if you plan to use a DCS network with
BX.25 signaling. If you plan to use a DCS network through the ISDN-PRI
D-Channel, do not perform the instructions in this section. Instead, continue with
"DCS+ Via ISDN-PRI D-Channel Administration" below.

The DEFINITY R6cis switch does not use BX.25 signalling, it uses only DCS+
networking.

Assign the Processor Channel at the Remote Switch

Use the following procedures to assign a processor channel for the Intuity AUDIX
system on the DCS link between the remote switch and the host switch. Perform
this procedure at each remote DEFINITY switch.

Busyout the Host-to-Remote Switch DCS Link

Use the following procedures to disable the DCS link between the remote switch
and the host switch. Perform this procedure at each remote DEFINITY switch.

Intuity Messaging Solutions
R5 DCIU integration with System 75 and DEFINITY Systems

Issue 1
January 2001

6 DCS Administration
DCS Administration for G3 & R5/6 Switches (Other than G3r & R5/6r)   *Page 6-59*

> ⚠ **CAUTION:**
> *This procedure disables DCS transparency. Perform it only after normal business hours.*

1. Enter **busyout link *DCS link number*** to busy out the link.

2. Enter **change communication-interface links** (DEFINITY ECS R6 or earlier) or **change data-module <ext>** (DEFINITY ECS R7 or later).

    The system displays the Interface Links screen (Figure 6-25) or the Data Module screen (Figure 6-26).

```
change communication-interface links                         Page 1 of 1

                         INTERFACE LINKS

Link  Enable  Est  PI            Destination  DTE/
              Conn Ext   Prot   Digits  Brd   DCE   Identification

 1:     y      y   12051 BX25   eia     ___   DCE    AUDIX

 2:     _      _   ____  ____   _____   ___   ___   _____


 3:     _      _   ____  ____   _____   ___   ___   _____

 4:     _      _   ____  ____   _____   ___   ___   _____

 5:     _      _   ____  ____   _____   ___   ___   _____

 6:     _      _   ____  ____   _____   ___   ___   _____

 7:     _      _   ____  ____   _____   ___   ___   _____

 8:     _      _   ____  ____   _____   ___   ___   _____
```

Figure 6-25.   G3i Interface Links Screen

Intuity Messaging Solutions
R5 DCIU integration with System 75 and DEFINITY Systems

Issue 1
January 2001

6 DCS Administration
DCS Administration for G3 & R5/6 Switches (Other than G3r & R5/6r) Page 6-60

```
add data-module next                                             Page 1 of 1
                            DATA MODULE

  Data Extension: 3456       Name: _____
            Type: procr-intf  COS: 1         Maintenance Extension: ____
Physical Channel: __          COR: 1            Destination Number: _____
            ITC: _____    TN: 1          Establish Connection? n
           Link: __      DTE/DCE: DTE         Connected Data Module: _____
                 Enable Link: n

ABBREVIATED DIALING
  List1: _____

SPECIAL DIALING OPTION: hot-line
    HOT LINE DESTINATION
         Abbreviated Dialing Dial Code (From above list): _

ASSIGNED MEMBER (Station with a data extension button for this data module)

      Ext              Name
    1.
```
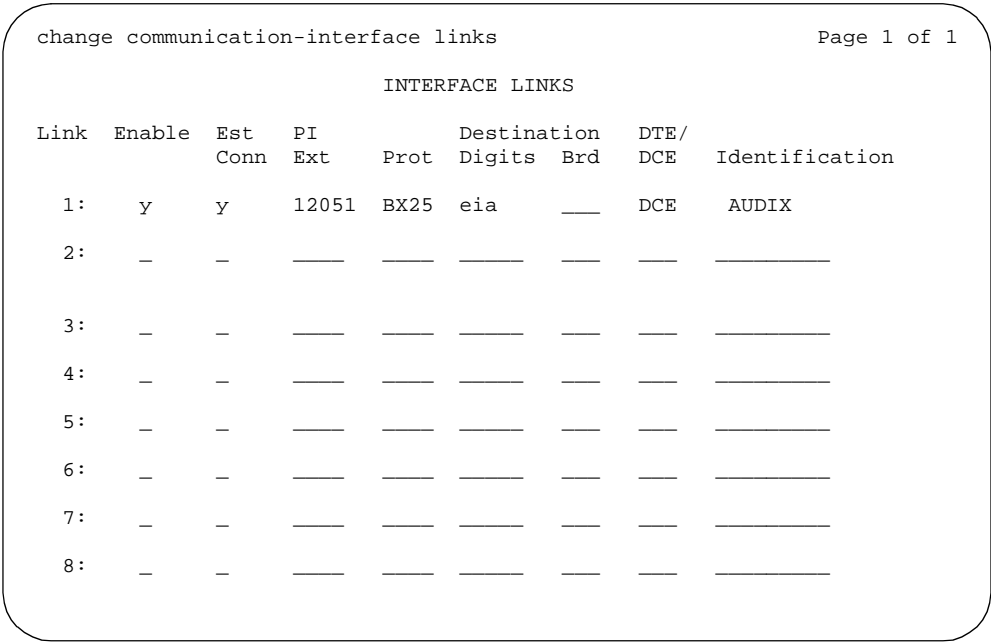
Figure 6-26.   Sample DEFINITY ECS R9 Data Module Screen

3. Enter **n** in the Enable (or Enable Link) field for the DCS link between the host switch and the remote switch.

4. Press [ENTER] to save the information.

   The system returns to the enter command: prompt.

Administer the Processor Channel

1. Enter **change communication-interface processor channels** at the command prompt.

   The system displays the Processor Channel Assignment screen (Figure 6-27 for DEFINITY ECS R6 or earlier or

Intuity Messaging Solutions
R5 DCIU integration with System 75 and DEFINITY Systems

Issue 1
January 2001

6 DCS Administration
DCS Administration for G3 & R5/6 Switches (Other than G3r & R5/6r)

Page 6-61

```
change communication-interface processor channels      Page 1 of 4

                          PROCESSOR CHANNEL ASSIGNMENT
 Proc                Interface                 Remote
 Chan     Appl.    Link  Chan     Priority    Proc Chan      Machine-ID
  1:       dcs      1     2          h            2              3
  2:     _____     _    ___      _____        ___           ___
  3:      AUDIX     1     4          h            4              4
  4:     _____     _    ___      _____        ___           ___
  5:     _____     _    ___      _____        ___           ___
  6:     _____     _    ___      _____        ___           ___
  7:     _____     _    ___      _____        ___           ___
  8:     _____     _    ___      _____        ___           ___
  9:     _____     _    ___      _____        ___           ___
 10:     _____     _    ___      _____        ___           ___
 11:     _____     _    ___      _____        ___           ___
 12:     _____     _    ___      _____        ___           ___
 13:     _____     _    ___      _____        ___           ___
 14:     _____     _    ___      _____        ___           ___
 15:     _____     _    ___      _____        ___           ___
 16:     _____     _    ___      _____        ___           ___
```

Figure 6-27.   Processor Channel Assignment Screen (G3i)

```
                     PROCESSOR CHANNEL ASSIGNMENT

 Proc             Gtwy       Interface      Destination     Session     Mach
 Chan  Enable  Appl.  To  Mode  Link/Chan  Node      Port  Local/Remote  ID
  1:     _   _____      _    __  _____  _____  0____  ___  ___  __
  2:     _   _____      _    __  _____  _____  0____  ___  ___  __
  3:     _   _____      _    __  _____  _____  0____  ___  ___  __
  4:     _   _____      _    __  _____  _____  0____  ___  ___  __
  5:     _   _____      _    __  _____  _____  0____  ___  ___  __
  6:     _   _____      _    __  _____  _____  0____  ___  ___  __
  7:     _   _____      _    __  _____  _____  0____  ___  ___  __
  8:     _   _____      _    __  _____  _____  0____  ___  ___  __
  9:     _   _____      _    __  _____  _____  0____  ___  ___  __
 10:     _   _____      _    __  _____  _____  0____  ___  ___  __
 11:     _   _____      _    __  _____  _____  0____  ___  ___  __
 12:     _   _____      _    __  _____  _____  0____  ___  ___  __
 13:     _   _____      _    __  _____  _____  0____  ___  ___  __
 14:     _   _____      _    __  _____  _____  0____  ___  ___  __
 15:     _   _____      _    __  _____  _____  0____  ___  ___  __
 16:     _   _____      _    __  _____  _____  0____  ___  ___  __
```

Figure 6-28.   Sample of a Processor Channel Assignment Screen (DEFINITY R7 and later)

2. Enter the correct values in the fields. Use Table 6-18 or to assign an unused processor channel on the DCS link between the remote switch and the host switch.

Intuity Messaging Solutions
R5 DCIU integration with System 75 and DEFINITY Systems

Issue 1
January 2001

6 DCS Administration
DCS Administration for G3 & R5/6 Switches (Other than G3r & R5/6r) **Page 6-62**

Table 6-18. **Processor Channel Assignment Screen Entries (DEFINITY ECS R6 and earlier)**

Field	Description and Instructions
Proc Chan	This field is a display-only field used to number each of the 64 processor channels. Select an unused processor channel from 1 to 64.
Appl.	Enter **AUDIX** to identify the channel application
Interface Link	Enter the number of the Interface Link that you busied out in "Busyout the Host to Remote Switch DCS Link and the Host to Intuity AUDIX System Link" above. Worksheet G, in Chapter 2, "Switch Integration Planning" lists the Interface Link number.
Interface Channel	Enter the logical channel number of the interface link. See Worksheet G, in Chapter 2, "Switch Integration Planning" for the correct interface channel number. The number is the node number of the switch.
Priority	Enter **h** to indicate a high-priority channel.
Remote Proc Chan	Enter the logical channel number of the interface link. See Worksheet G, in Chapter 2, "Switch Integration Planning" for the correct interface channel number. The number is the node number of the switch.
Machine-ID	Enter the Machine-ID of the Intuity AUDIX system. The Machine ID must agree with the AUDIX field entry on the Avaya INTUITY Switch Interface Administration screen (Figure 6-2).

Intuity Messaging Solutions
R5 DCIU integration with System 75 and DEFINITY Systems

Issue 1
January 2001

6 DCS Administration
DCS Administration for G3 & R5/6 Switches (Other than G3r & R5/6r) *Page 6-63*

Table 6-19. **Processor Channel Assignment Screen Entries (DEFINITY ECS R7 and later)**

Field	Description and Instructions
Proc Chan	This is a display-only field used to number each of the 64 processor channels. Any processor channel can be used for the Intuity AUDIX system, but 59 is the typical channel used.
Enable	Enter **n**.
Appl.	Enter **audix**.
Gtwy To	Leave this field blank.
Mode	Leave this field blank.
Interface Link	Enter the physical channel you entered on the Processor Interface Data Module screen. See Worksheet G in Chapter 2, "Switch Integration Planning", for the correct channel number.
Interface Chan	Enter the logical channel number of the interface link. See Worksheet G in Chapter 2, "Switch Integration Planning", for the correct interface channel number. The number is the node number of the switch.
Destination Node	Enter **audix.**
Destination Port	Enter **0**, which means any available port can be used and will be automatically selected by the system.
Session Local	Enter the session number on the local switch. This typically is the same number as the processor channel, 59.
Session Remote	Enter the node number on the remote switch. This typically is the same number as the interface channel.
Mach ID	Enter the Machine-ID of the Intuity AUDIX system. If the Intuity AUDIX system does *not* serve several switches in a DCS, this number is typically 1. The Machine ID must agree with the AUDIX field entry on the Avaya INTUITY Switch Interface Administration screen.

3. After you enter the processor channel information, press (ENTER) to save the information.

   The system returns to the command prompt.

Table 6-20 shows the field correlations between a remote switch Processor Channel Assignment screen and the Avaya INTUITY Switch Interface

Intuity Messaging Solutions
R5 DCIU integration with System 75 and DEFINITY Systems

Issue 1
January 2001

6 DCS Administration
DCS Administration for G3 & R5/6 Switches (Other than G3r & R5/6r)

Page 6-64

Administration screen. The field entries on these two screens must match as specified below.

Table 6-20. **Remote G3i, G3s, or G3vs and Avaya INTUITY System Correlations**

DEFINITY Switch Processor Channel Assignment Screen Field	**Avaya INTUITY Switch Interface Administration Screen Field**
Interface Channel	Logical Channel
Remote Proc Chan	Logical Channel
Proc Chan	Switch Port
Machine-ID	AUDIX

Release the Host-to-Remote Switch DCS Link

Perform the following steps to enable the DCS link between the host switch and the remote switch.

> ⚠ **CAUTION:**
> *This procedure restarts all links on this interface. Perform it only after normal business hours.*

1. Enter **change communication-interface links** (DEFINITY ECS R6 or earlier) or **change data-module <ext>** (DEFINITY ECS R7 or later).

   The system displays the Interface Links screen (Figure 6-25) or the Data Module screen (Figure 6-26).

2. Enter **y** in the Enable (or Enable Link) field for the DCS link between the host switch and the remote switch. This is the same link you disabled in "Disable the Host to Remote Switch DCS Link" above.

3. After you enter the processor channel information, press ENTER to save the information.

   The system returns to the enter command: prompt.

4. Continue with the next procedure, "Assign the Hop Channel".

Assign the Hop Channel

Move to the host switch administration terminal. At the host switch, use the following steps to establish a hop, or software data path, from the remote switch through the host switch to the Intuity AUDIX system.

Busyout the Host-to-Remote Switch DCS Link and the Host-to-Intuity AUDIX System Link

Use the following procedures to disable the DCS link between the remote switch and the host switch and between the host switch and the Intuity AUDIX system. Perform this procedure at the host DEFINITY switch.

⚠ CAUTION:

This procedure disables DCS transparency. Perform it only after normal business hours.

1. Enter **busyout link *DCS link number for host to remote switch*** to busy out the link.

2. Enter **busyout link *link number for host to Intuity AUDIX system*** to busy out the link.

1. Enter **change communication-interface links** (DEFINITY ECS R6 or earlier) or **change data-module <ext>** (DEFINITY ECS R7 or later).

   The system displays the Interface Links screen (Figure 6-25) or the Data Module screen (Figure 6-26).

2. Enter **n** in the `Enable` field for the DCS link between the host switch and the remote switch.

3. Enter **n** in the `Enable` field for the link between the host switch and the Intuity AUDIX system.

4. Press (ENTER) to save the information.

   The system returns to the enter command prompt.

Administer the Hop Channel Assignment Screen

1. Enter **change communication-interface hop-channels** at the switch administration terminal.

   The system displays the Hop Channel Assignment screen (Figure 6-29).

```
display communication-interface hop-channels            Page 1 of 2

                         HOP CHANNEL ASSIGNMENT
   Link/Chan   Link/Chan   Priority   Link/Chan   Link/Chan   Priority
     4    4      1    4        h        __  __      __  __        __
    __  __      __  __        __       __  __      __  __        __
    __  __      __  __        __       __  __      __  __        __
    __  __      __  __        __       __  __      __  __        __
    __  __      __  __        __       __  __      __  __        __
    __  __      __  __        __       __  __      __  __        __
    __  __      __  __        __       __  __      __  __        __
    __  __      __  __        __       __  __      __  __        __
    __  __      __  __        __       __  __      __  __        __
    __  __      __  __        __       __  __      __  __        __
    __  __      __  __        __       __  __      __  __        __
    __  __      __  __        __       __  __      __  __        __
    __  __      __  __        __       __  __      __  __        __
    __  __      __  __        __       __  __      __  __        __
    __  __      __  __        __       __  __      __  __        __
    __  __      __  __        __       __  __      __  __        __
```

Figure 6-29.   G3i Hop Channel Assignment Screen

2. Use Table 6-21 to enter the correct values in the fields on the Hop Channel Assignment screen.

Table 6-21.   Hop Channel Assignment Screen Entries (Host)

Field	Description
Link	Enter an interface link number from 1 through 8. For the link in the first column, enter the Interface Link number from the host switch Processor Channel Assignment screen for the link that connects the remote switch to the host switch. Use the link busied out in the "Disable the Host to Remote Switch DCS Link" above.
Chan	Enter an interface channel number from 1 through 64. For the channel in the second column, enter the Interface Channel number from the remote switch Processor Channel Assignment screen for the channel that connects the remote switch to the Intuity AUDIX system on the host switch.
Link	Enter an interface link number from 1 through 8. For the link in the third column, enter the Interface Link from the host switch Processor Channel Assignment screen for the link that connects the host switch to the Intuity AUDIX system. Use the link busied out in the *Disable the Host to Remote Switch DCS Link and the Host to Intuity AUDIX System Lin*k procedure.
Chan	Enter an interface channel number from 1 through 64. For the channel in the fourth column, enter the Remote Processor Channel from the remote switch Processor Channel Assignment screen for the channel that connects the Intuity AUDIX system to the remote switch. This is the AUDIX Port Logical Channel used on the Intuity AUDIX Switch Interface Administration screen for the remote switch.
Priority	Enter **h**

3. After you enter the hop channel information, press ENTER to save the
   information.

   The system returns to the command prompt.

Intuity Messaging Solutions
R5 DCIU integration with System 75 and DEFINITY Systems

Issue 1
January 2001

6 DCS Administration
DCS Administration for G3 & R5/6 Switches (Other than G3r & R5/6r) *Page 6-69*

Release the Host-to-Remote Switch DCS Link and the Host-to-Intuity AUDIX System Link

Perform the following procedures to enable the DCS link between the host switch and the remote switch and the link between the host switch and the Intuity AUDIX system.

! CAUTION:

This procedure restarts all links on this interface. Perform it only after normal business hours.

1. Enter **change communication-interface links** (DEFINITY ECS R6 or earlier) or **change data-module <ext>** (DEFINITY ECS R7 or later).

   The system displays the Interface Links screen (Figure 6-25) or the Data Module screen (Figure 6-26).

2. Enter **y** in the Enable field for the DCS link between the host switch and the remote switch.

3. Enter **y** in the Enable field for the link between the host switch and the Intuity AUDIX system.

4. After you enter the information, press ENTER to save the information.

   The system returns to the enter command: prompt.

5. Continue with "Administer the Subscribers (Remote Switch)" section.

DCS+ Via ISDN-PRI D-Channel Administration

NOTE:

Complete the instructions in this section if you plan to use a DCS network with an ISDN-PRI D-channel configuration. If you plan to use a DCS with BX.25 signaling, do not perform the instructions in this section. Instead, continue with the instructions in the "DCS with BX.25 Signaling Administration" below.

This section contains step-by-step procedures to administer an Intuity AUDIX system on a G3i, G3s, or G3vs in a DCS using an ISDN-PRI D-channel configuration, also called *DCS+*. Network design examples for Traditional DCS networks, D-channel DCS networks (private network only), D-channel DCS networks (public network access/egress), Integrated DCS networks (private network only), and Integrated DCS networks (public network access) are provided in Chapter 3 of *DEFINITY ECS Administration and Feature Description Release 6,* 555-230-522, Issue 4.

Intuity Messaging Solutions
R5 DCIU integration with System 75 and DEFINITY Systems

Issue 1
January 2001

6 DCS Administration
DCS Administration for G3 & R5/6 Switches (Other than G3r & R5/6r)   *Page 6-70*

Assign the Processor Channel at the
Host Switch DCS

Use the following procedures to assign a processor channel as the gateway between the Intuity AUDIX system and the remote switch. Perform this procedure at the G3i, G3s, or G3vs host switch.

1. Enter **change communication-interface processor-channels**

   The system displays the Processor Channel Assignment Screen (Figure 6-30).

```
change communication-interface processor channels       Page 1 of 4

                      PROCESSOR CHANNEL ASSIGNMENT
  Proc              Interface              Remote
  Chan    Appl.    Link  Chan    Priority  Proc Chan    Machine-ID
   1:     _____    _    ___     _____      ___          ___
   2:     _____    _    ___     _____      ___          ___
   3:     _____    _    ___     _____      ___          ___
   4:     _____    _    ___     _____      ___          ___
   5:     _____    _    ___     _____      ___          ___
   6:     _____    _    ___     _____      ___          ___
   7:     _____    _    ___     _____      ___          ___
   8:     _____    _    ___     _____      ___          ___
   9:     _____    _    ___     _____      ___          ___
  10:     _____    _    ___     _____      ___          ___
  11:     _____    _    ___     _____      ___          ___
  12:     _____    _    ___     _____      ___          ___
  13:     AUDIX     4    1_      __h__        59           _1_
  14:     gateway   4    4_      __h__        59           ___
  15:     _____    _    ___     _____      ___          ___
  16:     _____    _    ___     _____      ___          ___
```

Figure 6-30.   Sample G3i Processor Channel Assignment Screen (ISDN Gateway)

2. Use Table 6-22 or Table 6-23 to enter the correct values in the fields on the Hop Channel Assignment screen.

Intuity Messaging Solutions
R5 DCIU integration with System 75 and DEFINITY Systems

Issue 1
January 2001

6 DCS Administration
DCS Administration for G3 & R5/6 Switches (Other than G3r & R5/6r)   *Page 6-71*

Table 6-**22.**   **Processor Channel Assignment Screen Entries (ISDN Gateway) (DEFINITY ECS R6 or earlier) P**

Field	Description and Instructions
Proc Chan	This is a display-only field used to number each of the 64 processor channels. Select an unused processor channel from 1 to 64.
Appl.	Enter **gateway** to identify the channel application as an ISDN gateway.
Interface Link	Enter the Interface Link number from the host switch Interface Links screen for the Intuity AUDIX system link.
Interface Channel	Enter the logical channel number of the interface link. See Worksheet L, in Chapter 2, "Switch Integration Planning" for the correct interface channel number. The number is the node number of the switch.
Priority	Enter **h** to indicate a high-priority channel.
Remote Proc Chan	Enter the logical channel number of the interface link. See Worksheet L, in Chapter 2, "Switch Integration Planning" for the correct interface channel number. The number is the node number of the switch.
Machine-ID	Enter AUDIX number in the appropriate field.

Intuity Messaging Solutions
R5 DCIU integration with System 75 and DEFINITY Systems

Issue 1
January 2001

6 DCS Administration
DCS Administration for G3 & R5/6 Switches (Other than G3r & R5/6r)   *Page 6-72*

Table 6-23.   Processor Channel Assignment Screen Entries (ISDN Gateway) (DEFINITY ECS R7 or later)

Field	Description and Instructions
Proc Chan	This is a display-only field used to number each of the 64 processor channels. Any processor channel can be used for the Intuity AUDIX system, but 59 is the typical channel used.
Enable	Enter **y**.
Appl.	Enter **gateway**.
Gtwy To	Leave this field blank.
Mode	Leave this field blank.
Interface Link	Enter the physical channel you entered on the Processor Interface Data Module screen.
Interface Chan	Enter the logical channel number of the interface link. See Worksheet L, in Chapter 2, "Switch Integration Planning" for the correct interface channel number. The number is the node number of the switch.
Destination Node	Enter **audix.**
Destination Port	Enter **0**, which means any available port can be used and will be automatically selected by the system.
Session Local	Enter the session number on the local switch. This typically is the same number as the processor channel, 59.
Session Remote	Enter the logical channel number of the interface link. See Worksheet L, in Chapter 2, "Switch Integration Planning" for the correct interface channel number. The number is the node number of the switch.
Mach ID	Enter the Machine-ID of the Intuity AUDIX system. If the Intuity AUDIX system does *not* serve several switches in a DCS, this number is typically 1. The Machine ID must agree with the AUDIX field entry on the Avaya INTUITY Switch Interface Administration screen.

3. After you enter the information, press (ENTER) to save the information.

   The system returns to the enter command: prompt.

4. Continue with the next procedure, "Assign the Signaling Group at the Host Switch".

Assign the Signaling Group at the Host Switch

Use the signaling group screen to administer the call-associated (CA) and non-call associated (NCA) Temporary Signaling Connections (TSC) used to support DCS over the ISDN PRI D-channel.

Before you assign the signaling group at the host switch, confirm that the steps in the following list have been completed. The steps are part of the regular DCS switch administration process and enable voice communications on the DCS connection between the host switch and the remote switch. The Intuity AUDIX system uses the existing DCS trunks for both data and voice communications. See *DEFINITY ECS Administration and Feature Description Release 6,* 555-230-522, Issue 2, or *DEFINITY ECS Release 7, 8, 9 Administration for Network Connectivity,* 555-230-504, for more information.

- Configure DCS on a trunk group between the host switch and the remote switch with Used for DCS set to **y** and DCS Signaling set to **d-chan** by using the **change trunk-group *number*** command. The example in Figure 6-31 uses trunk group number 65.

- Configure a Uniform Dial Plan with a UDP code routing treatment for use on the trunk group between the host switch and the remote switch by using the **add udp** command.

- Define the UDP code on the AAR (Automatic Alternate Routing) Digit Analysis Table by using the **change aar analysis *number*** command. The AAR digit analysis table routes the call.

- Define a route pattern for the UDP code on the trunk group by using the **add route-pattern *number*** command. The example in Figure 6-31 uses trunk group number 65.

After you complete the checklist, perform the following steps on the G3r host switch.

1. Enter **change signaling-group *x*** where x is the signaling group associated with the DCS non-call associated temporary signaling connection (NCA-TSC) on the remote switch. The action assumes that DCS is administered already on this signaling channel.

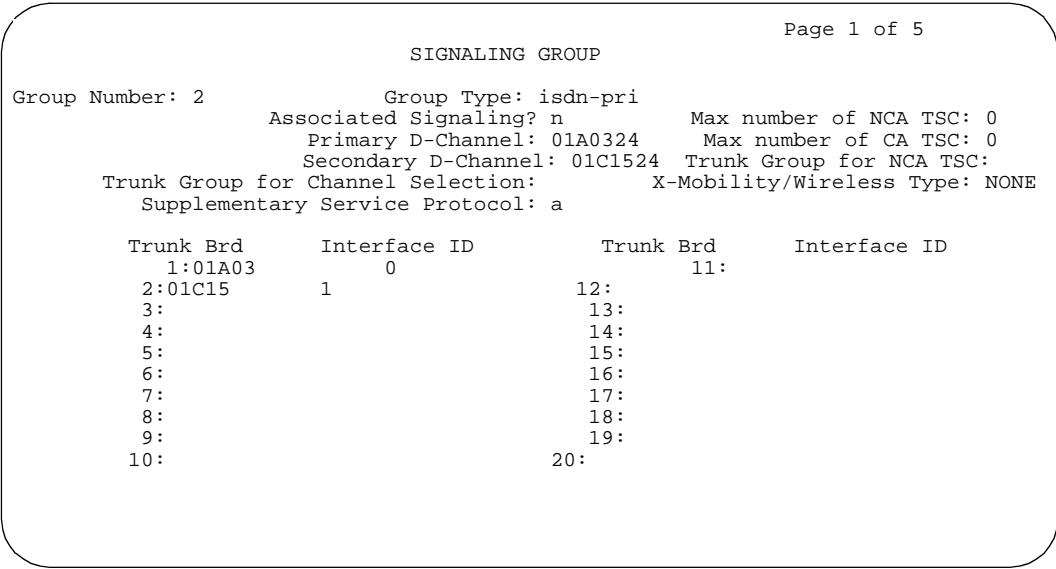   The system displays the Signaling Group screen (Figure 6-31).

```
                                                      Page 1 of 5
                         SIGNALING GROUP

Group Number: 2                Group Type: isdn-pri
                 Associated Signaling? n           Max number of NCA TSC: 0
                   Primary D-Channel: 01A0324    Max number of CA TSC: 0
                 Secondary D-Channel: 01C1524  Trunk Group for NCA TSC:
    Trunk Group for Channel Selection:          X-Mobility/Wireless Type: NONE
       Supplementary Service Protocol: a

      Trunk Brd       Interface ID         Trunk Brd       Interface ID
        1:01A03            0                  11:
        2:01C15        1                  12:
        3:                               13:
        4:                               14:
        5:                               15:
        6:                               16:
        7:                               17:
        8:                               18:
        9:                               19:
       10:                          20:
```

Figure 6-31.   Sample Remote Signaling Group Screen on the Host Switch, Page 1

2. Use Table 6-24 to enter the correct values in the fields on the Signaling Group screen.

Intuity Messaging Solutions
R5 DCIU integration with System 75 and DEFINITY Systems

Issue 1
January 2001

6 DCS Administration
DCS Administration for G3 & R5/6 Switches (Other than G3r & R5/6r)

Page 6-75

Table 6-24. Page 1 Signaling Group Screen Entries for the Host Switch

Field	Description and Instructions
Group Number:	This field displays the signaling group number.
Group Type	Enter **isdn-pri**
Associated Signaling:	Enter **n** to indicate Non-Facility Associated Signaling.
Primary D-channel:	Enter the 5- to 6-character port number associated with the DS1 Interface circuit card port. Currently, with FAS and NFAS, the port is always the 24th port on the DS1 Interface circuit card used to assign the primary D-channel in the signaling group. Locate the Primary D-channel assignment on the Processor Port Network when possible, for example Port Network 1. The default is a blank.
Secondary D-channel:	Enter the 5- to 6-character port number associated with the DS1 Interface circuit card port. Currently, with FAS and NFAS, the port is always the 24th port on the DS1 Interface circuit card. The default is a blank.
Max Number of NCA TSC:	Increment this field entry by 1. For example, if the entry is 2, change the entry to 3. The field indicates the maximum number of simultaneous Non-Call Associated Temporary Signaling Connections (NCA-TSCs) that can exist in the Signaling Group. The number includes all NCA-TSCs administered on Pages 2-5 of the signaling Group screen and those NCA-TSCs that tandem through the switch in route to another switch in the network. Valid entries are a number 0-256 and the default is 0.
Max number of CA TSC:	Enter the maximum number of simultaneous Call Associated Temporary Signaling Connections (CA-TSCs) that can exist in the signaling group. Valid entries are a number 0–400. The default is 0.
Trunk Group for NCA TSC:	Enter the ISDN-PRI trunk group number that contains the incoming call handling table used to handle incoming NCA-TSCs through the signaling group. Valid entries are a number 1-99. The default is blank.
Trunk Group for Channel Selection (DEFINITY R7 or later)	Leave this field blank.

Intuity Messaging Solutions
R5 DCIU integration with System 75 and DEFINITY Systems

Issue 1
January 2001

6 DCS Administration
DCS Administration for G3 & R5/6 Switches (Other than G3r & R5/6r)

Page 6-76

Field	Description and Instructions
`X-Mobility/Wireless Type` (DEFINITY R7 or later)	Enter **NONE**
`Supplementary Service Protocol` (DEFINITY R7 or later)	Enter **a** for X.25 DCS. Enter **b** for QSIG.
`Trunk Brd`	This field is displayed when Associated Signaling is **n** which indicates NFAS. Enter the 4-character DS1 Interface circuit card number that has trunk members belonging to the signaling group. The default is a blank.
`Interface ID`	This field is displayed when Associated Signaling is **n** which indicates NFAS. Enter an interface ID (0–31) for the corresponding DS1 Interface circuit card. In an NFAS Signaling Group, an Interface ID must be assigned to each DS1 facility so that the facility can be referenced by both interfacing switches. The Interface ID numbers on both ends must be the same.

3. After you enter the correct information in each field, press ENTER to save the information.

   The system refreshes the screen.

4. Press NEXTPAGE to move to page 2 of the Signaling Group screen (Figure 6-32).

```
                                                            Page 2 of 5
   ADMINISTERED NCA TSC ASSIGNMENT

   Service/Feature:                As-needed Inactivity Time-out (min): 30
   TSC Index  Local Ext.  Enabled  Establish   Dest. Digits  Appl.   Machine ID
       1:       59998        y     permanent     29998       dcs        1
       2:       59997        y     permanent     29997       gateway
       3:       _____        _     _____   _____ _____     __
       4:       _____        _     _____   _____ _____     __
       5:       _____        _     _____   _____ _____     __
       6:       _____        _     _____   _____ _____     __
       7:       _____        _     _____   _____ _____     __
       8:       _____        _     _____   _____ _____     __
       9:       _____        _     _____   _____ _____     __
      10:       _____        _     _____   _____ _____     __
      11:       _____        _     _____   _____ _____     __
      12:       _____        _     _____   _____ _____     __
      13:       _____        _     _____   _____ _____     __
      14:       _____        _     _____   _____ _____     __
      15:       _____        _     _____   _____ _____     __
      16:       _____        _     _____   _____ _____     __
```

Figure 6-32.   Page 2 of the G3i Signaling Group Screen for the Host Switch

5. Use Table 6-25 to enter the correct values in the fields on page 2 of the Signaling Group screen.

Intuity Messaging Solutions
R5 DCIU integration with System 75 and DEFINITY Systems

Issue 1
January 2001

6 DCS Administration
DCS Administration for G3 & R5/6 Switches (Other than G3r & R5/6r)

Page 6-78

Table 6-25.   Signaling Group Screen Entries for the Host Switch

Field	Description and Instructions
Service/Feature	Enter the service type for all administered NCA-TSCs assigned in this Signaling Group. The default is a blank. Valid values are: ■ **accunet** ■ **i800** ■ **inwats** ■ **lds** ■ **mega800** ■ **megacom** ■ **multiquest** ■ **operator** ■ **sdn** ■ **sub-operator** ■ **wats-max-bnd** ■ **[user-defined services]**
As-needed Inactivity Time-out (min)	Enter the inactivity time-out for as-needed NCA-TSCs assigned in the signaling group. An as-needed administered NCA-TSC staying inactive in this time period will be removed from service. Valid entries are a number 10 through 90. The default is a blank.
TSC Index	This is a display only field that shows the administered NCA TSC index representing one DCS logical channel connecting any two PBXs.
Local Ext	Enter an unassigned extension number. This assigns an extension on the switch to the administered NCA-TSC.
Enabled	Enter **y**
Establish	Enter **permanent**

Intuity Messaging Solutions
R5 DCIU integration with System 75 and DEFINITY Systems

Issue 1
January 2001

6 DCS Administration
DCS Administration for G3 & R5/6 Switches (Other than G3r & R5/6r) *Page 6-79*

Field	Description and Instructions
Dest. Digits	Enter the digits needed to route the administered NCA-TSC to the far-end switch. Valid entries are a number 0-9. Entries can include up to 15 digits. The default is a blank.
Appl.	Enter **gateway**
Machine ID	Enter the Machine ID of the far-end switch to which the administered NCA-TSC is to be connected.

6. After you enter the information, press ENTER to save the information.

   The system returns to the enter command: prompt.

7. Continue with the next procedure, "Assign the ISDN TSC Gateway Channel at the Host Switch".

Assign the ISDN TSC Gateway Channel at the Host Switch

This procedure maps a signaling group/TSC-index pair, completed in "Assign the Signaling Group at the Host Switch" above, to the processor channel used by the Intuity AUDIX system completed in "Assign the Processor Channel at the Host Switch DCS" above. Perform this procedure at the G3i, G3s, or G3vs host switch.

1. Enter **change isdn tsc-gateway** at the enter command: prompt.

   The system displays the ISDN TSC Gateway Channel Assignment screen (Figure 6-33).

Intuity Messaging Solutions
R5 DCIU integration with System 75 and DEFINITY Systems

Issue 1
January 2001

6 DCS Administration
DCS Administration for G3 & R5/6 Switches (Other than G3r & R5/6r) *Page 6-80*

```
change isdn tsc-gateway                                    Page 1 of 2

ISDN TSC GATEWAY CHANNEL ASSIGNMENT

   Sig   Adm'd NCA  Processor  Appli-     Sig   Adm'd NCA  Processor  Appli-
  Group  TSC Index  Channel    cation    Group  TSC Index  Channel    cation
  1: 2     2           14      AUDIX    17:___    __        ___        _____
  2:___    __          ___     _____   18:___    __        ___        _____
  3:___    __          ___     _____   19:___    __        ___        _____
  4:___    __          ___     _____   20:___    __        ___        _____
  5:___    __          ___     _____   21:___    __        ___        _____
  6:___    __          ___     _____   22:___    __        ___        _____
  7:___    __          ___     _____   23:___    __        ___        _____
  8:___    __          ___     _____   24:___    __        ___        _____
  9:___    __          ___     _____   25:___    __        ___        _____
 10:___    __          ___     _____   26:___    __        ___        _____
 11:___    __          ___     _____   27:___    __        ___        _____
 12:___    __          ___     _____   28:___    __        ___        _____
 13:___    __          ___     _____   29:___    __        ___        _____
 14:___    __          ___     _____   30:___    __        ___        _____
 15:___    __          ___     _____   31:___    __        ___        _____
 16:___    __          ___     _____   32:___    __        ___        _____
```

Figure 6-33.   G3i ISDN TSC Gateway Channel Assignment Screen

2. Use Table 6-26 to enter the correct values in the fields on the Gateway
    Channel Assignment screen.

Table 6-26.   ISDN TSC Gateway Channel Assignment Screen Entries

Field	Description
Sig Group	Enter the Group Number from page 1 of the Signaling Group screen you entered in the Assign the Signaling Group at the Host Switch above.
Adm'd NCA TSC Index	Enter the TSC Index chosen on the Signaling Group screen in the "Assign the Signaling Group at the Host Switch" above.
Processor Channel	Enter the processor channel chosen in the Assign the Processor Channel at the Host Switch DCS above.
Application	Enter **AUDIX**

3. After you enter the information, press (ENTER) to save the information.

    The system returns to the command prompt.

4. Continue with the next procedure, "Administer DCS through ISDN-PRI at
    the Remote Switch".

Administer DCS through ISDN-PRI at the Remote Switch

Use the Signaling Group screen to administer the call-associated (CA) and non-call associated (NCA) Temporary Signaling Connections (TSC) used to support DCS over the ISDN PRI D-channel.

Before you assign the signaling group at the host switch, confirm that the steps in the following list have been completed. The steps are part of the regular DCS switch administration process and enable voice communications on the DCS connection between the host switch and the remote switch. The Intuity AUDIX system uses the existing DCS trunks for both data and voice communications. See *DEFINITY ECS Administration and Feature Description Release 6, Issue 2*, 555-230-522, for more information.

- Configure DCS on a trunk group between the host switch and the remote switch with Used for DCS set to **y** and DCS Signaling set to **d-chan** by using the **change trunk-group** *number* command. The example in Figure 6-34 uses trunk group number 65.

- Configure a Uniform Dial Plan with a UDP code routing treatment for use on the trunk group between the host switch and the remote switch by using the **add udp** command.

- Define the UDP code on the AAR (Automatic Alternate Routing) Digit Analysis Table by using the **change aar analysis** *number* command. The AAR digit analysis table routes the call.

- Define a route pattern for the UDP code on the trunk group by using the **add route-pattern** *number* command. The example in Figure 6-34 uses trunk group number 65.

The Signaling Group screen assigns the call-associated (CA) and non-call associated (NCA) temporary signaling connections (TSCs) for ISDN-DCS trunk groups on the remote switch. Perform this procedure at the G3r remote switch.

1. Enter **change signaling-group *x*** where x is the signaling group associated with the DCS non-call-associated temporary signaling connection (NCA-TSC) on the host switch. The action assumes that DCS is administered already on this signaling channel.

   The system displays the Signaling Group screen (Figure 6-34).

```
                                                        Page 1 of 5
                              SIGNALING GROUP

Group Number: 2                  Group Type: isdn-pri
                   Associated Signaling? n        Max number of NCA TSC: 0
                      Primary D-Channel: 01A0324    Max number of CA TSC: 0
                     Secondary D-Channel: 01C1524 Trunk Group for NCA TSC:
       Trunk Group for Channel Selection:        X-Mobility/Wireless Type:
NONE
            Supplementary Service Protocol: a

           Trunk Brd      Interface ID        Trunk Brd       Interface ID
             1:01A03           0                       11:
             2:01C15      1                  12:
             3:                             13:
             4:                             14:
             5:                             15:
             6:                             16:
             7:                             17:
             8:                             18:
             9:                             19:
          10:                         20:
```

Figure 6-34.   G3i Signaling Group Screen, Page 1, on the Remote Switch

2. Use Table 6-27 to enter the correct values on page 2 of the Signaling
    Group screen.

Intuity Messaging Solutions
R5 DCIU integration with System 75 and DEFINITY Systems

Issue 1
January 2001

6 DCS Administration
DCS Administration for G3 & R5/6 Switches (Other than G3r & R5/6r)

Page 6-83

Table 6-27. Signaling Group Screen Entries, Remote (Page1)

Field	Description
Group Number	This field displays the signaling group number.
Associated Signaling	Enter **n** to indicate Non-Facility Associated Signaling.
Primary D-channel	Enter the 5- to 6-character port number associated with the DS1 Interface circuit card port used for secondary D-channel signaling. Currently, with FAS and NFAS, the port is always the 24th port on the DS1 Interface circuit card used to assign the primary D-channel in the signaling group. Locate the Primary D-channel assignment on the Processor Port Network when possible, for example, Port Network 1. The default is a blank.
Secondary D-channel	Enter the port number associated with the DS1 Interface circuit card port used for secondary D-channel signaling. Currently, with FAS and NFAS, the port is always the 24th port on the DS1 Interface circuit card. The default is blank.
Max Number of NCA TSC	Enter the maximum number of simultaneous Non-Call Associated Temporary Signaling Connections (NCA-TSCs) that can exist in the Signaling Group. This number includes all NCA-TSCs administered on pages 2-5 of the screen and those NCA-TSCs that tandem through the switch in route to another switch in the network. Valid entries are a number 0–256. The the default is a 0.
Max number of CA TSC	Enter the maximum number of simultaneous Call Associated Temporary Signaling Connections (CA-TSCs) that can exist in the Signaling Group. Valid entries are a number 0–400. The default is a 0.
Trunk Group for NCA TSC	The ISDN-PRI trunk group number that contains the incoming call handling table used to handle incoming NCA-TSCs through the signaling group. Valid entries are a number 1–99. The default is a blank.
Trunk Group for Channel Selection (DEFINITY R7 or later)	Leave this field blank.
X-Mobility/Wireless Type (DEFINITY R7 or later)	Enter **NONE**

Intuity Messaging Solutions
R5 DCIU integration with System 75 and DEFINITY Systems

Issue 1
January 2001

6 DCS Administration
DCS Administration for G3 & R5/6 Switches (Other than G3r & R5/6r) Page 6-84

Field	Description
Supplementary Service Protocol (DEFINITY R7 or later)	Enter **a** for X.25 DCS. Enter **b** for QSIG.
Trunk Brd	This field is displayed when Associated Signaling is **n**, which indicates NFAS. Enter a 4-character DS1 Interface circuit card number that has trunk members belonging to this signaling group. The default is a blank.
Interface ID	This field is displayed when Associated Signaling is n, which indicates NFAS. Enter an interface ID (0-31) for the corresponding DS1 Interface circuit card. In an NFAS Signaling Group, an Interface ID must be assigned to each DS1 facility so that the facility can be referenced by both interfacing switches. The Interface ID numbers on both ends must be the same.

3. After you enter the correct information in each field, press ENTER to save the information.

   The system refreshes the screen.

4. Press NEXTPAGE to move to page 2 of the Signaling Group screen (Figure 6-35).

```
    Page 2 of 5
ADMINISTERED NCA TSC ASSIGNMENT

Service/Feature:                  As-needed Inactivity Time-out (min):

TSC Index    Local Ext.  Enabled Establish  Dest. Digits  Appl.  Machine ID
    1:         29998         y      permanent      59998       dcs      3
    2:         29997         y      permanent      59997      AUDIX     4
    3:         _____         _      _____   _____   _____   ___
    4:         _____         _      _____   _____   _____   ___
    5:         _____         _      _____   _____   _____   ___
    6:         _____         _      _____   _____   _____   ___
    7:         _____         _      _____   _____   _____   ___
    8:         _____         _      _____   _____   _____   ___
    9:         _____         _      _____   _____   _____   ___
   10:         _____         _      _____   _____   _____   ___
   11:         _____         _      _____   _____   _____   ___
   12:         _____         _      _____   _____   _____   ___
   13:         _____         _      _____   _____   _____   ___
   14:         _____         _      _____   _____   _____   ___
   15:         _____         _      _____   _____   _____   ___
   16:         _____         _      _____   _____   _____   ___
```

Figure 6-**35. G3i Signaling Group Screen, Page 2, on the Remote Switch**

Intuity Messaging Solutions
R5 DCIU integration with System 75 and DEFINITY Systems

Issue 1
January 2001

6 DCS Administration
DCS Administration for G3 & R5/6 Switches (Other than G3r & R5/6r) *Page 6-85*

5. Use Table 6-28 to enter the correct values in the fields on page 2 of the Signaling Group screen.

Table 6-28. Signaling Group Screen Entries, Remote (Page2)

Field	Description and Instructions
Service Feature:	Enter the service type for all administered NCA-TSCs assigned in this signaling group. Valid entries are: ■ **accunet** ■ **i800** ■ **inwats** ■ **lds** ■ **mega800** ■ **megacom** ■ **multiquest** ■ **operator** ■ **sdn** ■ **sub-operator** ■ **wats-max-bnd** ■ **[user-defined services]** The default is a blank.
As-needed Inactivity Time-out (min):	Enter the inactivity time-out for as-needed NCA-TSCs assigned in the signaling group. An as-needed administered NCA-TSC staying inactive in this time period will be removed from service. Valid entries are a number 10–90. The default is blank.
TSC Index	Enter the TSC Index chosen on the host switch "Assign the Signaling Group at the Host Switch" above. The administered NCA TSC index represents one DCS logical channel connecting any two PBXs.
Local Ext	Enter the Dest. Digits entered on the host switch in the "Assign the Signaling Group at the Host Switch" above.
Enabled	Enter **y**
Establish	Enter **permanent**
Dest. Digits	Enter the Local Ext. entered on the host switch in "Assign the Signaling Group at the Host Switch" above.
Appl.	Enter **AUDIX**
Machine ID	Enter the Machine ID of the far-end switch to which this administered NCA-TSC is to be connected.

6. After you enter the information, press $\boxed{\text{ENTER}}$ to save the information.

Intuity Messaging Solutions
R5 DCIU integration with System 75 and DEFINITY Systems

Issue 1
January 2001

6 DCS Administration
DCS Administration for G3 & R5/6 Switches (Other than G3r & R5/6r)   *Page 6-86*

The system returns to the enter command prompt.

7. Continue with the next procedure, .

Assign the Hunt Group at the Remote Switch

This section contains procedures for administering a Hunt Group for the Intuity AUDIX system on a remote switch. DCS connectivity must have been previously administered.

If the Intuity AUDIX system is supporting a DCS network, assign the remote Intuity AUDIX system (rem-AUDIX) hunt group with the host switch Intuity AUDIX system AUDIX extension number. No host switch administration is required.

1. Enter **add hunt-group *number*** at the remote switch administration terminal to assign a new hunt group.

   The system displays the Hunt Group screen (Figure 6-36 or Figure 6-37).

```
                                                              Page 1 of X
                                HUNT GROUP
       Group Name: AUDIX 1_____
     Group Number: 10_                Group Extension: 12000   Group Type: ucd
                                            Skill? n                  ACD? n
            Queue: y                       Vector? n
    Security Code: ____      Night Service Destination: ____           COR: 1
 ISDN Caller Disp: _____               Coverage Path: ___            TN: 1

         Queue Length: 16
 Calls Warning Threshold: ___        Calls Warning Port: _      Extension: ____
  Time Warning Threshold: ___         Time Warning Port: _      Extension: ____
```

Figure 6-36.   Sample Hunt Group Screen, Page 1, on the Remote Switch (DEFINITY ECS R6 or earlier)

Intuity Messaging Solutions
R5 DCIU integration with System 75 and DEFINITY Systems

Issue 1
January 2001

6 DCS Administration
DCS Administration for G3 & R5/6 Switches (Other than G3r & R5/6r)   *Page 6-87*

```
add  hunt-group x                                              Page 1 of X
                             HUNT GROUP

          Group Number: ___                              ACD? n
            Group Name: _____     Queue? n
       Group Extension: ____                            Vector? n
            Group Type: _____               Coverage Path: __
__
                   TN: ___         Night Service Destination: __
___
                  COR: _               MM Early Answer? _
       Security Code: ____
  ISDN Caller Display: _____
```

Figure 6-37.   **Sample Hunt Group Screen, Page 1 (DEFINITY ECS R7 and later)**

2. Use Table 6-29 to enter the correct values in the fields on the Hunt Group screen.

Table 6-29.   Hunt Group Screen Entries for Page 1

Field	Description and Instructions
Group Number:	This field displays the hunt group number assigned to the hunt group when you entered the **add hunt-group** command.
Group Extension:	Enter an unused extension number consisting of 3 through 5 digits, to be assigned to the hunt group. This is the extension subscribers dial at the remote switch to access voice mail features.
Group Type:	Enter **ucd-mia**
Group Name:	Enter the name you want display set subscribers to see when they call the Intuity AUDIX system to access voice mail features. The name can consist of up to 15 characters.
	The work "AUDIX" must be part of the name for the G3-MA administration tool to recognize the Intuity AUDIX system. Other characters may appear in the name as long as AUDIX is part of the name. If AUDIX is not part of the Group Name, G3-MA will *not* be able to extract names from the switch when provisioning the Intuity AUDIX system.
Coverage Path:	Leave this field blank. Do not assign a coverage path to this Intuity AUDIX hunt group. Sending a call to somewhere other than the hunt group can cause problems with the Intuity AUDIX system.
COR?	Enter the Class of Restriction listed on Worksheet J in Chapter 2, "Switch Integration Planning"
Security Code:	Leave this field blank.
MM Early Answer?	Enter **y**
ACD?	Enter **n**
Queue?	Enter **n**
Night Service Destination:	Enter the destination where calls to this hunt group will redirect when the hunt group is in the night service mode. Allowable entries are an assigned extension number, the attendant, or leave blank. This field will be left blank for most applications, but an application requires calls to be redirected when the hunt group is in night service mode.

Intuity Messaging Solutions
R5 DCIU integration with System 75 and DEFINITY Systems

Issue 1
January 2001

6 DCS Administration
DCS Administration for G3 & R5/6 Switches (Other than G3r & R5/6r)   *Page 6-89*

Field	Description and Instructions
Vector?	Enter **n**
ISDN Caller Disp:	Enter **grp-name** or **mbr-name** to specify whether the hunt group name or member name, respectively, will be sent to the originating subscriber (hunt group name will be used in most applications).
Audix Extension:	Enter the extension number assigned to the Intuity AUDIX system hunt group at the host switch.

3. Press NEXTPAGE to move to page 2 of the Hunt Group screen (Figure 6-38 or Figure 6-39).

```
                                                            Page 2 of X
                            HUNT GROUP
                  Message Center: rem-audix____          AUDIX Extension: 12000
  Message Center AUDIX Name: AUDIX 1            Primary? y
              LWC Reception: _____
                 AUDIX Name: AUDIX 1
      Messaging Server Name: _____
   First Announcement Extension: _____          First Announcement Delay (sec): __
```

Figure 6-38.   Sample Hunt Group Screen, Page 2 (DEFINITY R6 or Earlier)

```
                                                            Page 2 of X
                            HUNT GROUP

                      Message Center: rem-audix____

          Message Center AUDIX Name: AUDIX 1

                           Primary? y
  Calling Party Number to INTUITY AUDIX:
                   LWC Reception: _____
                      AUDIX Name: AUDIX 1
            Messaging Server Name: _____
```

Figure 6-39.   Sample Hunt Group Screen, Page 2 (DEFINITY R7 or Later)

Intuity Messaging Solutions
R5 DCIU integration with System 75 and DEFINITY Systems

Issue 1
January 2001

6 DCS Administration
DCS Administration for G3 & R5/6 Switches (Other than G3r & R5/6r) Page 6-90

4. Use Table 6-30 to enter the correct values in the fields on page 2 of the Hunt Group screen.

Table 6-30. G3r or R5/6/7/8/9r Hunt Group Screen Entries, Page 2

Field	Description and Instructions
Message Center:	This value identifies the INTUITY AUDIX system as a voice messaging product. Enter **rem-audix**.
AUDIX Extension:	Enter the extension of the AUDIX hunt group on the remote switch.
Message Center AUDIX Name:	Enter the name you assigned on the User Defined Adjunct Names (or Node Names) screen (Figure 6-7 or Figure 6-8) in "Assign User-Defined Adjunct Names to Remote Switches (DEFINITY R6 and Earlier)" or "Assign Node Names on Remote Switches (DEFINITY R7 and Later)" above.
Primary?	Enter **y** if you want the INTUITY AUDIX system to answer. If you do not enter **y**, the INTUITY AUDIX system will not answer. (R5r & later.)
Calling Party Number to Intuity AUDIX:	This only appears when the Message Center is audix or rem-audix. Enter **y** or **n**. **y** sends the calling party number to Intuity AUDIX (Figure 6-24).
LWC Reception:	Enter **none** to identify your desired leave word calling destination for this hunt group.
AUDIX Name:	Enter the name of the AUDIX machine as it appears in the User-Defined Adjunct Names or Node Names screen.
Messaging Server Name:	Leave this field blank.
First Announcement Extension:	This field identifies the announcement a caller receives after being in the queue for the time interval specified in the First Announcement Delay field. Enter a recorded announcement extension number or leave this field blank. Chapter 10, "Optional Switch Administration for Intuity AUDIX System Features", contains instructions for setting up recorded announcements.
First Announcement Delay (sec):	This field is optional if the queue field contains **y** and must be left blank if there is no first announcement. Enter the number of seconds that a call can remain in queue before the calling party receives the first announcement.

5. After you enter the information, press ⌞ENTER⌟ to save the information.

The system returns to the command prompt.

Administer the Subscribers (Remote Switch)

To be able to use the Intuity AUDIX system, all Intuity AUDIX system subscribers on the remote switch must be assigned the appropriate switch features and coverage path. The information in this section applies to all of the switches in the following list:

- System 75

- DEFINITY G1, G3, R5/6

The sample screens in this section represent the screens on a DEFINITY G3i. All of the switches have subscriber administration screens that are very similar. Any administration differences between the switches and the examples are provided in the procedure.

$\Longrightarrow$ NOTE:

Before the subscribers can log in to the Intuity AUDIX system, the Intuity AUDIX system administrator must administer the Intuity AUDIX system. The Intuity AUDIX system does not answer unless the switch number field on the Intuity AUDIX system Subscriber screen is filled in for each subscriber.

Assign the Call Coverage Path for Subscribers (Remote Switch)

Define a call coverage path for subscribers with the Intuity AUDIX hunt group set up in "Assign the Hunt Group at the Remote Switch" above as a coverage point. You may need to define several call coverage paths depending on how the customer wants to handle call coverage for groups of subscribers. You may need to add the Intuity AUDIX hunt group as another coverage point for existing coverage paths.

To define a call coverage path for subscribers, use the following procedure:

1. Enter **add coverage path *number*** at the switch administration terminal.

   The system displays the Coverage Path screen (Figure 6-40).

```
change coverage path 2                                          Page  1 of  1
                         COVERAGE PATH

             Coverage Path Number: 2
                                          Hunt After Coverage: n
                  Next Path Number: ___     Linkage: ___  ___

COVERAGE CRITERIA

   Station/Group Status    Inside Call    Outside Call
             Active?            n               n
              Busy?            y               y
       Don't Answer?           y               y  Number of Rings:2
              All?             n               n
DND/SAC/Goto Cover?            y               y

COVERAGE POINTS

   Terminate to Coverage Pts. with Bridged Appearance? n

             Point1: ____  Point2: ____  Point3: ____
             Point4: ____  Point5: ____  Point6: ____
```

Figure 6-40.   Sample G3i Subscriber Coverage Path Screen on the Remote Switch

2. Use Table 6-31 to enter the correct values in the fields on the Subscriber coverage Path screen.

Intuity Messaging Solutions
R5 DCIU integration with System 75 and DEFINITY Systems

Issue 1
January 2001

6 DCS Administration
Administer the Subscribers (Remote Switch)

Page 6-93

Table 6-31.   Subscriber Coverage Path Screen Entries (Remote Switch)

Field	Description and Instructions	
`Coverage Path Number:`	This field displays the coverage path number assigned to the coverage path when you entered the add coverage path command. This number should appear in the `Coverage Path` field on all subscriber station screens on the remote switch so that subscriber stations will cover to the Intuity AUDIX voice ports.	
`Hunt After Coverage`	Enter **n**	
`Coverage Criteria`	Enter the conditions that, when met, cause the call to redirect to coverage.	
`Station/Group Status`	Inside Call	Outside Call
`Active?`	Enter **n** for digital stations. Enter **y** for analog stations.	Enter **n** for digital stations. Enter **y** for analog stations.
`Busy?`	Enter **y**	Enter **y**
`Don't Answer?`	Enter **y**	Enter **y**
`All?`	Enter **n**	Enter **n**
`SAC/Go to Cover?`	Enter **y**	Enter **y**
`Linkage:`	This is a display-only field that shows up to two additional coverage paths, when assigned, to which the `Next Path Number` field entry is linked to.	
`Next Path Number:`	This is an optional field. Enter the number of the coverage path to which a call is redirected in case of coverage failure at the current path.	
`Number of Rings:`	Enter a number of rings from 1 through 99. Three rings (default) is the recommended timing. This is the number of rings a subscriber's telephone rings before the switch recognizes a no-answer condition and sends the call to the first coverage point.	
`Coverage Points`	Enter the call coverage paths. For Point1, Point2, or Point3, enter **h** followed by the Intuity AUDIX hunt group number assigned in "Assign the Hunt Group at the Remote Switch" above for each switch. See Worksheet K in Chapter 2, "Switch Integration Planning" for the hunt group number.	

Intuity Messaging Solutions
R5 DCIU integration with System 75 and DEFINITY Systems

Issue 1
January 2001

6 DCS Administration
Administer the Subscribers (Remote Switch)

Page 6-94

3. After you enter the information, press ENTER to save the information.

   The system returns to the command prompt.

4. Continue with the next procedure, "Modify the Station Screen for Each Remote Subscriber".

Modify the Station Screen for Each Remote Subscriber

At the switch administration terminal, modify the station screen for each Intuity AUDIX subscriber on the remote switch as follows:

1. Enter the subscriber coverage path defined in the "Assign the Call Coverage Path for Subscribers (Remote Switch)" above in the Coverage Path field.

2. Enter **AUDIX** in the LWC Reception field.

3. Enter **y** in the LWC Activation? field if the subscriber is assigned to the Leave Word Calling feature.

4. Enter **led** or **neon** in the Message Waiting Indicator? field if the telephone has a message waiting indicator (MWI) lamp. You can also set the field to **audible** to provide a stutter-dialtone. This step applies to 500, 2500, and 7104A voice terminals only.

   ### $\Rightarrow$ NOTE:
   For other phones, you set the stutter-dialtone notification by entering **y** in the Audible Message Waiting field.

5. In the Button Assignments field, enter the following button assignments when needed to interact with Intuity AUDIX system features:

   - **call-fwd**

   - **goto-cover**

   - **lwc-store**

   - **send-calls**

6. After you enter the information, press ENTER to save the information.

   The system returns to the enter command: prompt.