

DEFINITY G3r and R5/6/7/8/9r Administration

4

Overview

The process of integrating a System 75 or DEFINITY® Communications System G3r or R5/6/7/8/9r switch and an Intuity AUDIX™ system involves a series of tasks. You must perform some of these tasks on the switch and others on the Intuity AUDIX system at the time it is installed.

This chapter provides the following basic procedures you must perform on the switch:

- Assign the subscriber-defined adjunct name.
- Administer the INTUITY AUDIX® voice ports on the switch.
- Administer the voice ports to a hunt group.
- Administer the data link between the switch and the INTUITY AUDIX system.

You must perform additional procedures on the switch if:

- The Intuity AUDIX system includes certain optional features such as INTUITY AUDIX Digital Networking or an automated attendant. See [Chapter 10, “Optional Switch Administration for Intuity AUDIX System Features”](#), for the additional procedures.
- The Intuity AUDIX system and the switch are part of a Distributed Communications System (DCS) network. See [Chapter 6, “DCS Administration”](#), for the additional procedures.

Purpose

This chapter provides procedures for the basic switch integration required to integrate a System 75 or DEFINITY Communications System G3r or R5/6r switch with an Intuity AUDIX system.

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

A G3r or R5/6r 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.

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 adjunct names**

The system displays the User Defined Adjunct Names screen ([Figure 4-1](#)).

change adjunct-names

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USER DEFINED ADJUNCT NAMES

AUDIX NAMES	MESSAGE SERVER NAMES
1: <u>AUDIX1</u>	1: _____
2: _____	2: _____
3: _____	3: _____
4: _____	4: _____
5: _____	5: _____
6: _____	6: _____
7: _____	7: _____
8: _____	

Figure 4-1. Sample G3r or R5/6r User-Defined Adjunct Names Screen

5. Enter the name chosen for the INTUITY AUDIX system under AUDIX NAMES on the screen.
- 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. Continue with the next procedure, [“Administer the Voice Port as Stations”](#).

Assign Node Names (DEFINITY R7 and Later)

An 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.

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 4-2](#)).

AUDIX-MSA NODE NAMES

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

Figure 4-2. 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. Continue with the next procedure, [“Administer the Voice Port as Stations”](#).

Administer the Voice Port as Stations

This section explains how you administer each of the INTUITY AUDIX system voice ports as 2500-type voice terminals. You must administer a voice port for each of the ports on the INTUITY AUDIX system. For example, if you have a 64-port INTUITY AUDIX system, you must administer 64 voice ports. You assign the voice ports and their extensions to hunt groups in the next section, [“Assign the Hunt Group”](#).

To administer the voice ports, complete the following procedures in this section:

1. Create a unique class of restriction.
2. Administer the first voice port.
3. Duplicate the first voice port for the remaining voice ports.

4. Change the Port and Name fields for each of the duplicated ports.

Before you continue with this section, make sure you have completed the worksheets in [Chapter 2, "Switch Integration Planning"](#). You need that information to complete the following procedures.

Create a Unique Class of Restriction

The COR defines subscribers' calling privileges. The COR specifies up to 95 different classes of call origination and termination privileges on the DEFINITY G1 switch and increases the security of the system. You must create a unique COR for the INTUITY AUDIX system. This COR must be in the 21 to 39 range and *not* in use by any other extension, special-usage ports, or trunk group.

Use the following procedure to create the COR:

1. Log in to the switch System Administration Terminal (SAT) by entering the craft or inads user id.
2. Enter your password.
3. Enter the correct terminal type for the SAT.
4. Enter **change cor COR number** at the command prompt. See [Worksheet A](#) in [Chapter 2, "Switch Integration Planning"](#), for the COR number.

⇒ NOTE:

If you do not know of a vacant COR number in the required range, enter **list cor cor 21 to-cor 39** to display the COR numbers of interest. Choose a vacant COR number and continue.

The system displays the Class Of Restriction screen.

⇒ NOTE:

The instructions in this section deal only with the fields you need to change for an INTUITY AUDIX system. Do not change the value in any other field unless you are instructed. For more information on the COR screen and fields, see the documentation provided with the switch.

5. Press **(NEXTPAGE)** to move to page 2 (DEFINITY R6 and earlier) or page 3 (DEFINITY R7 and later) of the Class Of Restriction screen.

In the **Calling Permission** field, you see the numbers 0 through 94. The numbers represent the calling permissions you can set.

6. Set the calling permissions to provide a more secure system. Set up the COR with permission to call local numbers within the dial plan only.



NOTE:

Some INTUITY AUDIX system features require additional calling capabilities. See [Worksheet A](#) in [Chapter 2, "Switch Integration Planning"](#), for more information on configuring the COR for specific features.

7. Press **(ENTER)** to save your changes and return to the command prompt.

Create a Unique Class of Service

The COS allows you to define subscriber access to several features and functions. For the INTUITY AUDIX system voice ports, turn on the Data Privacy feature only. Avaya Communications recommends that you do not enable any other features on the COS.

Use the following procedure to create the COS:

1. Enter **change cos** at the command prompt. See [Worksheet A](#) in [Chapter 2, "Switch Integration Planning"](#), for the COS number. (5 is the preferred COS number.)

The system displays the Class Of Service screen.



NOTE:

The instructions in this section deal only with the fields you need to change for an INTUITY AUDIX system. Do not change the value in any other field unless you are instructed. For more information on the COS screen and fields, see the documentation provided with your switch.

2. Turn on the Data Privacy feature for the COS.

Data Privacy is the only feature you should select y (yes) for.

3. Press **(ENTER)** to save your changes and return to the command prompt.

Administer the First Voice Port Station

The Intuity AUDIX voice ports interact with the switch as 2500 analog stations. See [Worksheet A](#) in [Chapter 2, "Switch Integration Planning"](#) for the information required to administer the ports.

To administer the voice ports, complete the following procedures in this section:

- 1. Enter **add station <voice port extension>** at the enter command prompt on the MT.

The system displays page 1 of the Station screen ([Figure 4-3](#)).

The extension number must be the same length as the INTUITY AUDIX system subscriber extension numbers. Extension numbers cannot start with 0.



NOTE:

You can also use the **add station next** command if you are adding stations sequentially.

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STATION

Extension: 1003

Type: 500

Port:

Name: _AUDIX1

Lock Messages? n

Security Code:

Coverage Path 1:

Coverage Path 2:

Hunt-to Station:

BCC: 0

TN: 1

COR: 1

COS: 5

Tests? n

STATION OPTIONS

Off Premise Station? n

R Balance Network? n

Message Waiting Indicator:

Message Lamp Ext:

Figure 4-3. Sample G3r or R5/6r Station Screen, Page 1

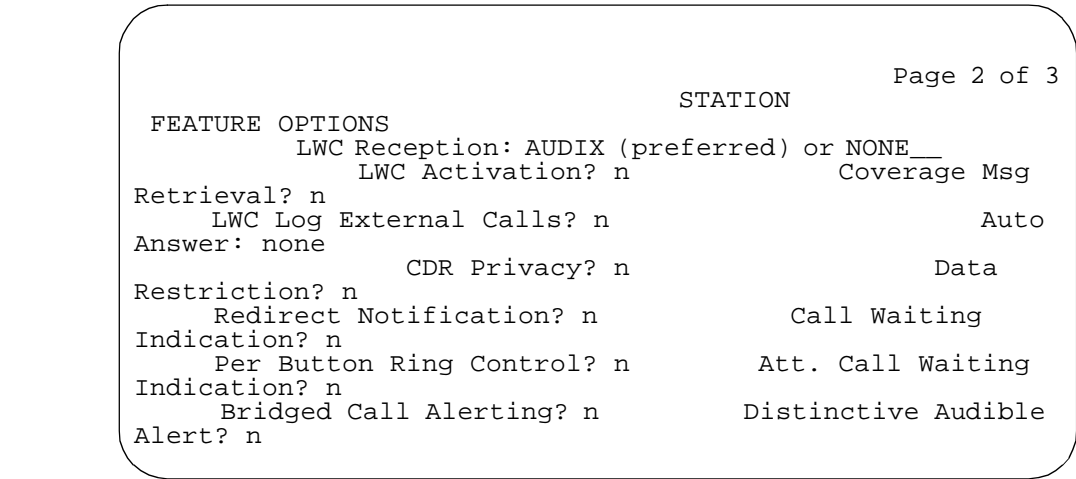


Figure 4-4. Sample Station Screen, Page 2 (R6 or earlier)

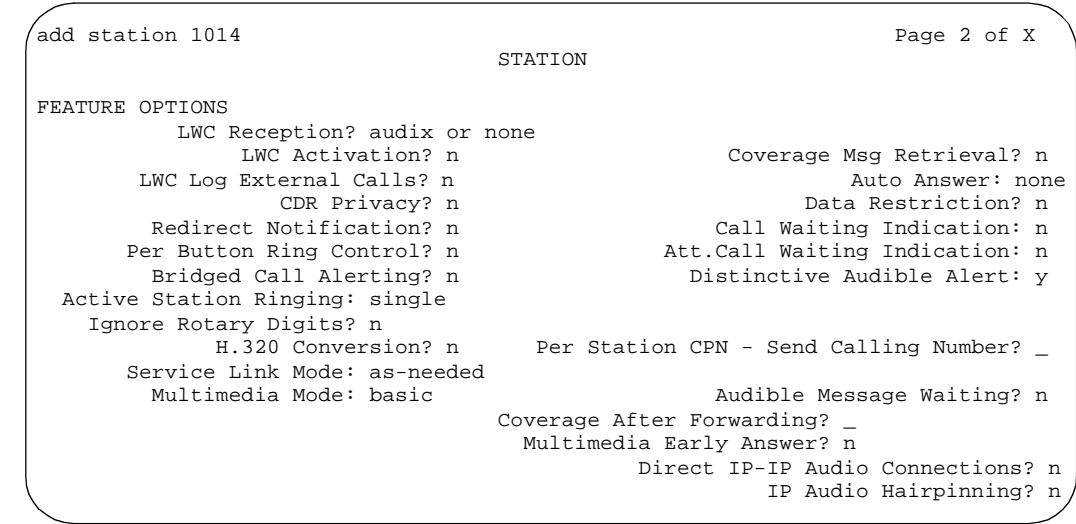


Figure 4-5. Sample Station Screen, Page 2 (R7 or Later)

2. Use [Table 4-1](#) to enter the correct values in the fields on the Station screen, pages 1 and 2.

Table 4-1. Station Screen Entries

Field	Description and Instructions
Station Screen, Page 1	
Extension:	Enter a valid extension number (3 to 5 digits) that agrees with the dial plan. Each voice port needs a unique extension number. See Worksheet B in Chapter 2, "Switch Integration Planning" for a list of valid extensions.
BCC:	Bearer Capability Class is a display-only field set to a default of 0 for stations. 0 indicates voice or voice-grade data. The field appears on the screen only when the ISDN-PRI option is enabled on the switch System-Parameters Customer-Options screen.
Type:	Enter 2500 .
Lock Messages:	Enter n
COR:	Enter a Class of Restriction for the voice port that reflects the desired restriction. The COR provides security for the voice ports. Use the COR you configured in "Create a Unique Class of Restriction" above. Worksheet A in Chapter 2, "Switch Integration Planning" , contains the COR number you must use.
Port:	<p>Enter the seven-character port number, for example, 01A0501. See Worksheet B in Chapter 2, "Switch Integration Planning", for the port number.</p> <ul style="list-style-type: none">■ The first two characters identify the cabinet. The number can be 01–22 and the default is 1.■ The next character identifies the carrier as either A, B, C, D, or E.■ The next two characters identify the slot number in the carrier. 01–18 is used on a single-carrier cabinet and 01–20 is used on multi-carrier cabinets.■ The last two characters identify the circuit number. Valid entries are 01–16. Assign the first voice port to circuit 01, the second to circuit 02, etc.
Security Code:	Leave this field blank.

Field	Description and Instructions
COS:	Enter a Class of Service that allows access to the Data Privacy feature only. Set all other features for the COS to n . Use the COS number you configured in “Create a Unique Class of Service” above. Worksheet A in Chapter 2, “Switch Integration Planning” , also contains the COS number.
Name:	Enter AUDIX x where x equals the circuit number of the port, NONE , or enter any other name. See Worksheet B in Chapter 2, “Switch Integration Planning” , for the correct name.
Coverage Path:	Leave this field blank.
Tests?	Enter n
Message Waiting Indicator?	Leave this field blank.
Off Premise Station?	Enter n
R Balance Network?	Enter n
Station Screen, Page 2	
LWC Reception?	Enter AUDIX or none
LWC Activation?	Enter n
CDR Privacy?	Enter n
Redirect Notification?	Enter n
Switchhook Flash?	Enter y
AUDIX Name:	Enter the name of the INTUITY (AUDIX) system you entered in “Assign User-Defined Adjunct Names (DEFINITY R6 and Earlier)” or “Assign Node Names (DEFINITY R7 and Later)” above.
Message Server Name:	Leave this field blank.
Coverage Message Retrieval?	Enter n
Auto Answer?	Enter n
Data Restriction?	Enter n
Call Waiting Indication?	Enter n

Field	Description and Instructions
Att. Call Waiting Indication?	Enter n
Distinctive Audible Alert?	Enter n
Adjunct Supervision?	Enter y
Audible Message Waiting?	Enter n
H.320 Conversion?	Enter n
Per Station CPN - Send Calling Number	Leave this field blank.
Service Link Mode	Enter as-needed
Multimedia Mode	Enter basic
Audible Message Waiting	Enter n
Multimedia Early Answer?	Enter n
Direct IP-IP Audio Connections?	Enter n
IP Audio Hairpinning	Enter n

3. After you enter the correct information in the fields, press **ENTER** to save the information.
- The system refreshes the screen and returns the cursor to the enter command: prompt.
4. Continue with the next procedure, [“Duplicate the Station”](#).

Duplicate the Station

After you create one voice port station, you can quickly create additional stations by using the **duplicate station** command. The command allows you to copy the information you entered on the first voice port station. You are required to enter just the extension, port, and name for the next station you need to create. As you use the command, see [Worksheet B](#) in [Chapter 2, “Switch Integration Planning”](#), for a list of the voice port information you must enter.

Use the following procedure to duplicate the station:

1. Enter **duplicate station first voice port station extension** at the command prompt.

The system duplicates the station then displays the Station screen ([Figure 4-3](#)). The cursor appears in the `Extension:` field.

2. Enter the extension number of the next voice port station you need to create in the `Extension:` field.
3. Enter the port for the next voice port station in the `Port:` field.
4. Enter the name for the next port in the `Name:` field.
5. Press `(ENTER)` to save the information and return to the command prompt.
6. To verify that the voice ports exist on the switch, enter **list station extension for port 1 count number of voice ports**

The system displays a list of all the stations you created.

Assign the Hunt Group

You must identify each INTUITY AUDIX system voice port as a member of one or more call distribution or switch groups, also called *hunt groups*. This group is a set of analog ports on the switch that connects subscribers to the INTUITY AUDIX system by distributing new calls to idle ports. DEFINITY G3r or R5 and later switches use Uniform Call Distribution (UCD) Most Idle Agent (MIA) for distributing calls to the ports. See the appropriate switch documentation for more information about call distribution groups.

Use the following procedure to place the voice ports into a hunt group starting with port 1:

1. Enter **add hunt-group hunt group number** at the enter command prompt on the MT.

The system displays the Hunt Group screen ([Figure 4-6](#)) or ([Figure 4-5](#)).

See [Worksheet C](#) in [Chapter 2, "Switch Integration Planning"](#) to find the hunt group number. You also can enter **add hunt-group next** to add a hunt group with a number that is one higher than the previous hunt group.

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Assign the Hunt Group

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HUNT GROUP

Group Name: AUDIX 1

Group Number: 10_

Queue: y

Security Code:

ISDN Caller Disp:

Queue Length: 16

Calls Warning Threshold:

Time Warning Threshold:

Group Extension: 12000

Skill? n

Vector? n

Night Service Destination:

Coverage Path:

Calls Warning Port: _

Time Warning Port: _

Group Type: ucd

ACD? n

COR: 1

TN: 1

Extension:

Extension:

Figure 4-6. Sample Hunt Group Screen, Page 1 (R6 or Earlier)

add hunt-group x

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HUNT GROUP

Group Number: 10_

Group Name: AUDIX 1

Group Extension: 12000

Group Type: ucd-mia

TN: 1

COR: 1

Security Code:

ISDN Caller Display:

ACD? n

Queue? n

Vector? n

Coverage Path:




Night Service Destination:

MM Early Answer? _

Figure 4-7. Sample Hunt Group Screen, Page 1 (R7 or later)

2. Use [Table 4-2](#) to enter the correct values in the fields on page 1 of the Hunt Group screen.

Table 4-2. G3r or R5/6/7/8/9r Hunt Group Screen Entries, Page 1

Field	Description and Instructions
Group Name :	<p>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.</p> <p>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.</p> <p>See Worksheet C in Chapter 2, "Switch Integration Planning", for the Group Name.</p>
Group Number :	<p>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 C in Chapter 2, "Switch Integration Planning".</p>
Group Extension :	<p>Enter an unused extension number of 3–5 digits to be assigned to the hunt group. This is the extension subscribers dial to access voice messaging features. See Worksheet C in Chapter 2, "Switch Integration Planning", for the hunt group extension.</p>
Group Type :	<p>Enter ucd (DEFINITY R6 or earlier) or ucd-mia (DEFINITY R7 or later).</p>
Skill?	<p>Enter n</p> <p> NOTE: This field may or may not appear on the form.</p>
ACD?	<p>Enter n</p> <p> NOTE: The Intuity AUDIX system voice ports do not operate in an ACD group.</p>
Queue?	<p>Enter y</p> <p> NOTE: A queue is optional but recommended. See Worksheet C in Chapter 2, "Switch Integration Planning", for the appropriate value.</p>

Field	Description and Instructions
Vector?	Enter n The INTUITY AUDIX hunt group may be vector-controlled. See Worksheet C in Chapter 2, "Switch Integration Planning" , for the appropriate value.
Security Code:	Leave this field blank.
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 C 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 C 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 4-8](#)) or ([Figure 4-9](#)).

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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 4-8. Sample Hunt Group Screen, Page 2 (DEFINITY R6 or Earlier)

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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 4-9. Sample Hunt Group Screen, Page 2 (DEFINITY R7 or Later)

5. Use [Table 4-3](#) to enter the correct values in the fields on page 2 of the Hunt Group screen.

Table 4-3. 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 if your messaging system is located on a remote switch. Otherwise, enter AUDIX .
AUDIX Extension:	This field appears only when rem-audix is your message-center type. 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 4-1 or Figure 4-2) in “ Assign User-Defined Adjunct Names (DEFINITY R6 and Earlier) ” or “ Assign Node Names (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 4-9).
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. Press **NEXTPAGE** to move to the page 3 of the Hunt Group screen ([Figure 4-10](#)).

[Figure 4-10](#) shows sample hunt group member assignments for the G3r or R5/6r switch. You must assign the INTUITY AUDIX voice port extensions as members of the hunt group.

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HUNT GROUP

Group Number: 10 Group Extension: 12000 Group Type: ucd-mia

Member Range Allowed: 1 - 200 Administered Members (min/max): 1 /9

Total Adminstered members: 6

Group	Member	Assignments		
	Ext	Name	Ext	Name
	1:	12001 AUDIX 1	14:	_____
	2:	12002 AUDIX 2	15:	_____
	3:	12003 AUDIX 3	16:	_____
	4:	12004 AUDIX 4	17:	_____
	5:	12005 AUDIX 5	18:	_____
	6:	12006 AUDIX 6	19:	_____
	7:	12007 AUDIX 7	20:	_____
	8:	12008 AUDIX 8	21:	_____
	9:	12009 AUDIX 9	22:	_____
	10:	_____	23:	_____
	11:	_____	24:	_____
	12:	_____	25:	_____
	13:	_____	26:	_____

At End of Member List

Figure 4-10. Sample G3r or R5/6r Hunt Group Screen, Page 3

7. Enter the INTUITY AUDIX voice port extensions as group members. Use [Table 4-4](#) to complete the hunt group assignments.

⇒ NOTE:
Enter the ports you configured for the INTUITY AUDIX system. Do not enter voice port extensions that belong to other systems.

⇒ NOTE:
The voice port names do not display while you are adding the hunt group members, but you will see them the next time you access the Hunt Group screen.

Table 4-4. Hunt Group Member Assignments Screen Entries

Field	Description
Group Number:	This is a display-only field that shows the group number assigned on page 1 of the Hunt Group screen (Figure 4-6).
Group Extension:	This is a display-only field that shows the group extension assigned on page 1 of the Hunt Group screen (Figure 4-6).
Group Type:	This is a display-only field that shows the group type assigned on page 1 of the Hunt Group screen (Figure 4-6).
Ext	Enter the extension of each INTUITY AUDIX voice port. Enter the extensions in the same order they were assigned to the voice ports. The order must match the order on the INTUITY AUDIX system Voice Equipment Assignment screen. See Worksheet B , in Chapter 2, “Switch Integration Planning” , for a list of voice port extensions.
Name	This is a display-only field that shows the voice port names the next time you access the Hunt Group screen.

8. After you enter INTUITY AUDIX voice port extension, press **ENTER** to save the information.
- The system refreshes the screen.
9. Press **CANCEL** to exit the Hunt Group screen and return to the enter command prompt.

You use the Group Number of the INTUITY AUDIX hunt group when you assign a call coverage path for the system subscribers. The hunt group number serves as the coverage point for incoming INTUITY AUDIX calls. You will complete the coverage path assignment procedure in [Chapter 9, “Cut-to-Service Administration”](#).

Assign the Data Link

The data link connects the INTUITY AUDIX system to the Generic 3r Packet Gateway (PGATE) card (TN577). The TN577 is a BX.25 protocol interface between the switch and the INTUITY AUDIX system. The BX.25 data module is a port on the PGATE card that acts as a protocol converter and packet handler and provides RS-449 (electrical) and RS-232 (physical) connectivity at the physical layer.

You can connect to the switch using the following methods:

- **Isolating Data Interface (IDI) connections**

An IDI uses a Electronic Industries Association (EIA) RS-232-C serial data electrical interface. The maximum distance between the INTUITY AUDIX system and the switch supported by an IDI connection is 50 feet.

- **Data Service Unit (DSU) connections**

Use a DSU to connect an INTUITY AUDIX platform and a switch located more that 50 feet apart.

- **Modular Processor Data Module (MPDM) connections**

Use an MPDM to connect an INTUITY AUDIX platform and a switch located more that 50 feet apart.

For more information on the INTUITY AUDIX system-to-switch connections, including required hardware and connectivity diagrams, see [Chapter 1, "Switch Integration Requirements"](#).

To assign the data link, complete the following procedures in this section:

1. [Administer the Packet Gateway Card.](#)
2. [Assign the BX.25 Data Module.](#)
3. [Assign the Interface Link \(DEFINITY R6 and Earlier\).](#)
4. [Assign the Processor Channel.](#)

Administer the Packet Gateway Card

As you perform this procedure, see [Worksheet E](#), in [Chapter 2, “Switch Integration Planning”](#).

Use the following procedure to administer the PGATE card:

1. Enter **add pgate card location** to assign the PGATE card.

The system displays the Packet Gateway Board screen ([Figure 4-11](#)).

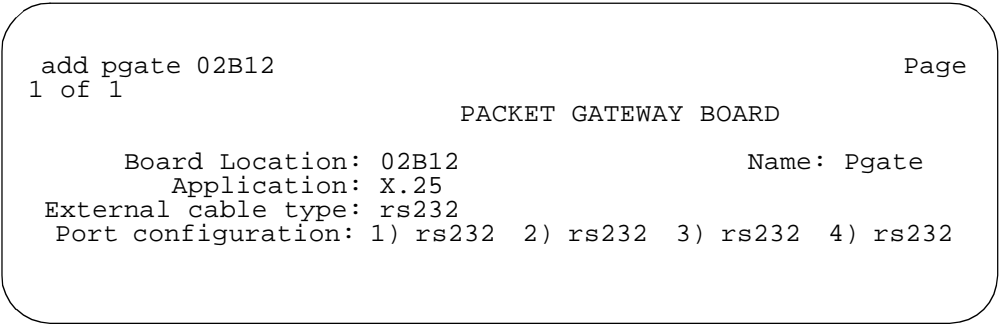


Figure 4-11. Sample Packet Gateway Board Screen

2. Use [Table 4-5](#) to enter the correct values in the fields on the Packet Gateway Board screen.

Table 4-5. Packet Gateway Board Screen Entries

Field	Description and Instructions
Board Location:	<p>Enter the five-character location of the PGATE card in the switch. See Worksheet E, in Chapter 2, “Switch Integration Planning”, for the correct card location.</p> <ul style="list-style-type: none">■ The first two characters represent the cabinet. Valid values are 01 through 22.■ The third character represents the carrier, A,B,C,D or E.■ The fourth and fifth characters are the slot number of the board within the carrier. Use 01–20 for medium cabinets or 01–18 for small cabinets.
Name:	Enter the name of the board.
Application:	This is a display-only field that indicates the communication protocol used to transmit messages over the PGATE is BX.25.
External cable type:	This is a display-only field that indicates RS-232 as the type of physical interface being used between the PGATE port and the INTUITY AUDIX system.
Port configuration:	This is a display-only field that indicate the port is configured for RS-232 communication.

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

The system returns to the enter command prompt.

4. Continue with the next procedure, [“Assign the BX.25 Data Module”](#).

Assign the BX.25 Data Module

This procedure assigns a BX.25 Data Module in the G3r or R5/6r switch for communications to the INTUITY AUDIX system. The BX.25 data module extension must correspond to the extension you assign on the Interface Link. As you complete this procedure, see [Worksheet E](#), in [Chapter 2, "Switch Integration Planning"](#).

Use the following procedure to assign the BX.25 Data Module:

- 1. Enter **add data-module *PGATE extension*** at the command prompt on the MT.

The system displays the Data Module screen ([Figure 4-12](#)) or ([Figure 4-13](#)).

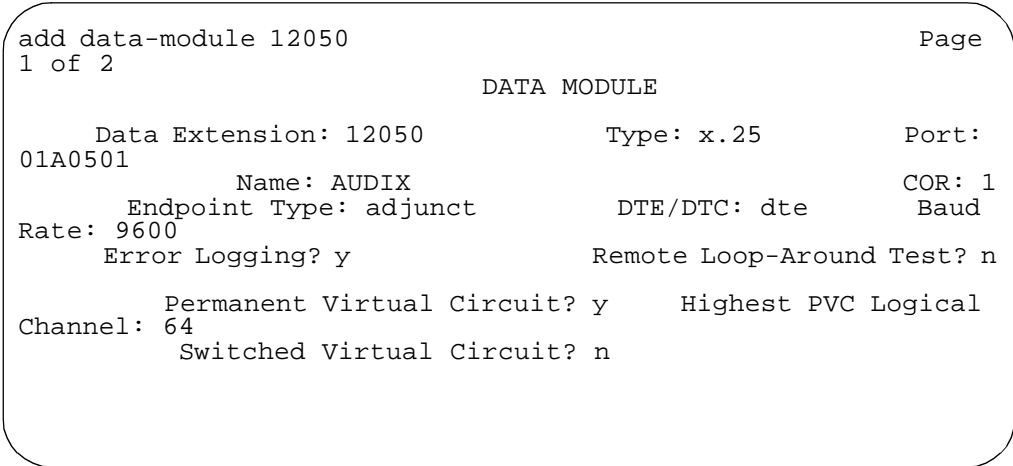


Figure 4-12. Sample BX.25 Data Module Screen, Page 1 (DEFINITY R6 and Earlier)

add data-module 12050

DATA MODULE

Page 1 of 2

Data Extension: 12050

Name: AUDIX

Type: x.25

Remote Loop-Around Test? n

Port: 01A0501

COR: 1

Destination

Number: external

Baud Rate: 9600

TN: 1

Establish Connection: y

Endpoint Type: adjunct DTE/DTC: dte

Connected Data Module:

Link: 4

Enable Link: y

Error Logging? y

Permanent Virtual Circuit? y


Highest PVC Logical Channel: 64

Switched Virtual Circuit? n

Figure 4-13. Sample BX.25 Data Module Screen, Page 1 (DEFINITY R7 and Later)

- 2. Use [Table 4-6](#) to enter the correct values in the fields on page 1 of the Data Module screen.

Table 4-6. BX.25 Data Module Screen Page 1 Entries

Field	Description and Instructions
Data Extension:	Displays the extension number assigned to the BX.25 data module when you entered the add data-module command.
Type:	Enter x.25
Port:	Enter the seven-character PGATE port location that connects to the BX.25 data module, for example, 01A0501. See Worksheet E , in Chapter 2, “Switch Integration Planning” , for the correct port location.
Name:	 NOTE: This field is optional. Enter AUDIX .
COR:	Enter the Class of Restriction for the BX.25 data module. See Worksheet E in Chapter 2, “Switch Integration Planning” , for the COR.
TN	Enter the tenant partion number, normally 1 .
Establish Connection	Enter y
Endpoint Type	Enter adjunct
DTE/DCE:	Enter dte
Connected Data Module	Display-only, when the Destination Number is a value <i>other than</i> eia.
Link	This is a display-only field that indicates the physical interface link number for the PI card link that connects to the Intuity AUDIX system. Use 1–4 for a G3s or G3vs switch and a single-carrier G3i. Use 1–8 for a multi-carrier G3i switch. Choose the link number you entered in the <code>Physical Channel:</code> field on the Processor Interface Data Module screen.
Enable Link	Enter y
DTE/DCE	Enter DTE
Destination Number	Enter the MPDM extension if an MPDM is used or, enter eia if an IDI is used. If an IDI is used, the <code>Connected to:</code> field appears on the screen. Enter DCE in the <code>Connected to:</code> field.
Baud Rate:	Enter 9600
Error Logging?	Enter n

Field	Description and Instructions
Remote Loop-Around Test?	Enter n
Permanent Virtual Circuit?	The default value is y and cannot be changed.
Highest PVC Logical Channel:	The default value is 64 and cannot be changed.
Switched Virtual Circuit?	The default value is n and cannot be changed.

- 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 second page of the Data Module screen ([Figure 4-14](#)).

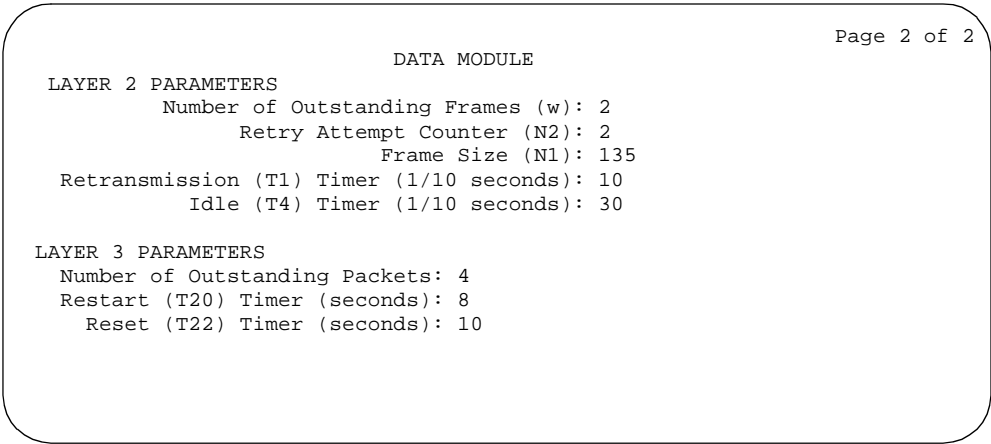


Figure 4-14. Sample BX.25 Data Module Screen, Page 2

- 5. Use [Table 4-7](#) to enter the correct values in the fields on page 2 of the Data Module screen.

Table 4-7. BX.25 Data Module Screen Page 2 Entries


Field	Description and Instructions
Number of Outstanding Frames (w):	The field specifies layer 2 window size (1–7 frames). If the value is 1, up to 1 frame can be sent without confirmation. Avaya Communications recommends that you enter 2
Retry Attempt Counter (N2):	This field specifies the number of times (0–7) to send one frame when this frame is not confirmed for a period of time. The default is 2.
Frame Size (N1):	This field specifies the number of bytes (135 or 263) in a frame. The default is 135. If the value is 135, there can be up to 1080 bits within a frame. This value is suitable for all adjuncts and for DCS.
Retransmission (T1) Timer (1/10 seconds):	The T1 timer is started at the beginning or the end of the transmission of a frame. At the end of this timer (0–250), retransmission of a frame is initiated according to the procedures for link set-up and disconnection or information transfer. The default is 10.
Idle (T4) Timer (1/10 seconds):	The T4 timer is a system parameter that represents the time a DTE will allow without frames being exchanged on the data link (0–250). The default is 30.
Number of Outstanding Packets:	Specifies the number of packets (2–7) that can be sent without confirmation. The default is 2.
Restart (T20) Timer (seconds):	The T20 timer is a DTE time-limit (0–500) started when DTE issues a restart indication and terminated when the restart request is received or confirmed. The default is 8.
Reset (T22) Timer (seconds):	The T22 timer is a DTE time limit (0–500) started when DTE issues a reset indication and terminated when the reset request is received or confirmed. Enter 10

6. After you enter the BX.25 Data Module information, press **ENTER** to save the information.
- The system returns to the enter command prompt.
7. Continue with the next procedure, [“Assign the Interface Link \(DEFINITY R6 and Earlier\)”](#) or [“Assign the Processor Channel”](#).

Assign the Interface Link (DEFINITY R6 and Earlier)

You must perform this task for all Intuity AUDIX system connections to DEFINITY R6 and earlier systems only.

The interface link provides a physical interface between the G3r or R5/6r and the INTUITY AUDIX system. In this procedure, you change the Interface Links screen ([Figure 4-14](#)) to add the BX.25 data module assigned in the previous task. The Interface Links screen allows you to identify, describe, and enable the BX.25 interface link.

**CAUTION:**
Perform this procedure during off-hours only. This step causes an interface reset which affects all other links that may be made to the switch that is, the Distributed Communications System (DCS), Applications Processor (AP), and Call Management System (CMS).

Use the following procedure to assign the interface link:

1. Enter **change communication-interface links** at the enter command prompt on the MT.

The system displays the Interface Links screen ([Figure 4-15](#)).

change communication-interface links

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INTERFACE LINKS

Link	Enabled	X.25 Extension	Destination Number	Establish Connection	Connected Data Module	Identification
1:	-	_____	_____	_____	_____	_____
2:	-	_____	_____	_____	_____	_____
3:	-	_____	_____	_____	_____	_____
4:	-	_____	_____	_____	_____	_____
5:	y	12050	external	_____	_____	AUDIX
6:	-	_____	_____	_____	_____	_____
7:	-	_____	_____	_____	_____	_____
8:	-	_____	_____	_____	_____	_____
9:	-	_____	_____	_____	_____	_____
10:	-	_____	_____	_____	_____	_____
11:	-	_____	_____	_____	_____	_____
12:	-	_____	_____	_____	_____	_____
13:	-	_____	_____	_____	_____	_____
14:	-	_____	_____	_____	_____	_____
15:	-	_____	_____	_____	_____	_____
16:	-	_____	_____	_____	_____	_____

Figure 4-15. Sample G3r or R5/6r Interface Links Screen

2. Use [Table 4-8](#) to enter the correct values in the fields on the Interface Links screen.

Table 4-8. Interface Links Screen Entries

Field	Description and Instructions
Link	This is a display-only field that shows the interface link number connected to the INTUITY AUDIX system. See Worksheet E in Chapter 2, “Switch Integration Planning” .
Enabled	Enter y
X.25 Extension	Enter the extension of the BX.25 data module you assigned in the previous task, “Assign the BX.25 Data Module” . The extension is listed on in Chapter 2, “Switch Integration Planning” .
Destination Number	Enter external
Establish Connection	Leave this field blank.
Connected Data Module	Leave this field blank.
Identification	Enter the INTUITY AUDIX adjunct name assigned on the User-Defined Adjunct Names screen. See Worksheet E in Chapter 2, “Switch Integration Planning” .

3. After you enter the PGATE information, press **ENTER** to save the information.
- The system returns to the enter command prompt.
4. Continue with the next procedure, [“Assign the Processor Channel”](#).

Assign the Processor Channel

After you assign the data module, you need to assign a processor channel for the INTUITY AUDIX system connection. Use a free processor channel for the connection. As you complete the procedure in this section, see [Worksheet E](#), in [Chapter 2, “Switch Integration Planning”](#).

Use the following procedure to assign the processor channel:

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

The system displays the Processor Channel Assignment screen ([Figure 4-16](#) or [Figure 4-17](#)).

change communication-interface processor-channels

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PROCESSOR CHANNEL ASSIGNMENT

Proc Chan	Application	Interface Link	Chan	Local Port	Remote Port	Adjunct Name	Machine-ID
1:							
2:							
3:							
4:							
5:							
6:							
7:							
8:							
9:							
10:							
11:							
12:							
13:	AUDIX	5	1	3	59	AUDIX	1
14:							
15:							

Figure 4-16. Sample Processor Channel Assignment Screen (DEFINITY R6 or Earlier)

PROCESSOR CHANNEL ASSIGNMENT

Proc Chan	Enable	Appl.	Gtwy To	Mode	Interface Link/Chan	Destination Node	Port	Session Local/Remote	Mach 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 4-17. Sample of a Processor Channel Assignment Screen (DEFINITY R7 and later)

2. Use [Table 4-9](#) or [Table 4-10](#) to enter the correct values in the fields on the Processor Channel Assignments screen.

Table 4-9. Processor Channel Assignment Screen Entries (DEFINITY R6 or Earlier)

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 and move the cursor to that channel.
Application	Enter AUDIX to identify the channel application.
Interface Link	Enter the interface link number you assigned in “Assign the Interface Link (DEFINITY R6 and Earlier)” above. Worksheet E in Chapter 2, “Switch Integration Planning” , also contains the interface link number.
Interface Channel	Enter the logical channel number of the interface link. See Worksheet E 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 INTUITY AUDIX Switch Interface Administration screen. See Worksheet E in Chapter 2, “Switch Integration Planning” , for the switch port number.
Remote Port	Enter the logical channel number, 59 , of the interface link. See Worksheet E 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 you defined on the switch User Defined Adjunct Names screen (Figure 4-1) in “Assign User-Defined Adjunct Names (DEFINITY R6 and Earlier)” above.
Machine-ID	Enter the machine-ID of the INTUITY AUDIX system. If the INTUITY AUDIX system does <i>not</i> serve several switches in a DCS or connect to multiple voice messaging adjuncts, this number is typically 1. The machine ID must agree with the AUDIX field entry on the INTUITY AUDIX Switch Interface Administration screen.

Table 4-10. 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 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 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 E in Chapter 2, “Switch Integration Planning” , for the correct channel number.
Interface Chan	Enter the logical channel number of the interface link. See Worksheet E 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 4-2) in “Assign Node Names (DEFINITY R7 and Later)” above.
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 <i>not</i> 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 PGATE information, press **ENTER** to save the information and return to the enter command prompt.

4. [Table 4-11](#) shows the field correlations between the G3r or R5/6r Processor Channel Assignment screen and the INTUITY AUDIX Switch Interface Administration screen. Compare these two screens and ensure that the field entries match what is specified in the table.

Table 4-11. INTUITY AUDIX System Correlations

Switch Processor Channel Assignment Screen Field	INTUITY AUDIX Switch Interface Administration Screen Field
Interface Channel	Logical Channel
Remote Port	Logical Channel
Local Port	Switch Port
Machine-ID	AUDIX
DCS Node Number	Host Switch

5. Continue with the next procedure, [“Verify the Link”](#).

Verify the Link

This task verifies that the switch-to-INTUITY AUDIX system link is operational. Before the link can be operational, you must assign the link at the INTUITY AUDIX system. Perform this task after completing the switch administration and after the INTUITY AUDIX system has been installed and administered. If the INTUITY AUDIX system link is not up in 5 minutes, use the G3r or R5/6r maintenance manual and the following steps to diagnose the INTUITY AUDIX system link.

1. Check the time and date on the switch. If the time and date are not correct, enter **set time** to correct them.
2. Enter **status link 1-8** to verify that the INTUITY AUDIX system link has been established. Use the link number you assigned on the Interface Link screen.

The system displays the Interface Link Status screen ([Figure 4-15](#)).

3. Verify that the Local/Remote Processor Channels field shows the Interface Link number and the Interface Channel number and the Link Status field contains the status connected.

If the Link Status does not show a status of connected, perform the following Steps a and b:

- a. Enter **test link link number** where *link number* is the Interface Link.
- b. Enter **1 long** at the end of the command line.

If this test fails, follow the procedures in the switch maintenance book. If this test passes and the link status does not display, call your remote service center.

You should see the processor channel number with a plus sign (+) in front of the number. The plus sign (+) indicates that the link is operating correctly.

If the `Link Status` fields shows connected but the Interface Link and Interface Channel do not display, verify the INTUITY AUDIX Port Logical Channel and Switch Port translations.

You have completed the tasks required to administer the DEFINITY G3r or R5/6r for integration with an INTUITY AUDIX system. Select one of the following options:

- If you need to perform optional switch administration, continue with [Chapter 10, "Optional Switch Administration for Intuity AUDIX System Features"](#).
- If you do not plan to perform any optional switch administration, return to one of the following on the *INTUITY Messaging Solutions Release 5 Documentation* CD-ROM (585-313-803 or 585-313-807) and complete the INTUITY AUDIX installation tasks.

