

DCS Administration

4

Overview

Purpose

The INTUITY™ AUDIX® system can serve more than one switch when the switches are part of a network such as the Lucent Technologies Distributed Communications System (DCS). 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 communication. This chapter describes the procedures for administering a Generic 2 or System 85 switch for an INTUITY AUDIX system in a DCS environment.



NOTE:

The procedures in this section assume that the voice channels are already translated between the switch nodes and the DCS network is up. See the appropriate switch documentation for these procedures.

Data Link Administration

[Figure 4-1](#) shows that DCS switch data connections involves a distant switch, a host switch, and an INTUITY AUDIX system. Some coordination is required here when assigning port and channel numbers as described after this figure.

NOTE:
The GBCS Design Center can assist you when designing a multinode INTUITY AUDIX DCS system.

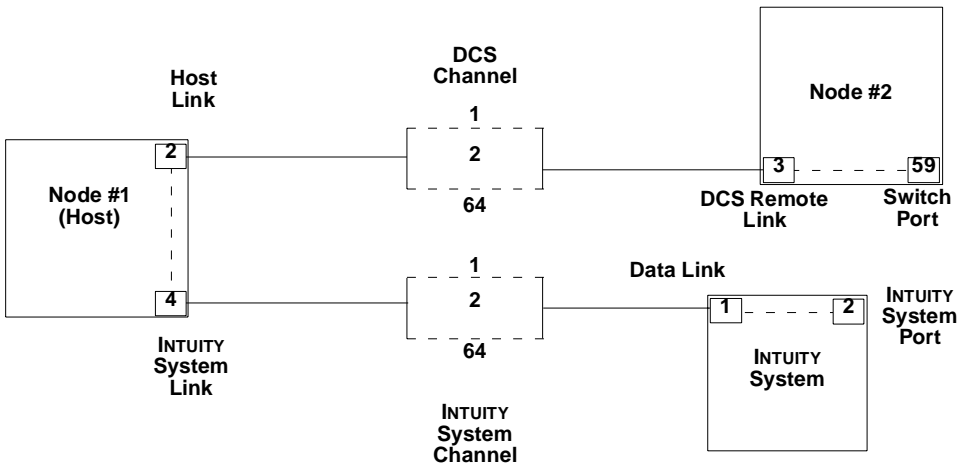


Figure 4-1. INTUITY AUDIX System Data Link to a DCS Switch

Assign a DCS Remote Node

Use the following steps ([Table 4-1](#)) to assign an INTUITY AUDIX system switch port at the remote node. This switch processor port is assigned to a spare channel on the DCS link connected to the INTUITY AUDIX system host.

Table 4-1. DCS Remote Node Procedure Overview

Step	Procedure	Field	Manager II Field Name	Enter	Press
1	257 Word 5	1	Port Number	switch port (normally 59)	Change
		2	Application Type	13	
		3	Instance Number	INTUITY AUDIX system number (normally 1)	
2	257 Word 2	1	Local Port	switch port	Change
		2	Remote Port	INTUITY AUDIX system port	
3	257 Word 1	1	Component A — Link (switch)	0	Add
		2	Component A — Logical Channel (local port)	switch port	
		3	Component B — Link (switch)	DCS node link	
		4	Component A — Logical Channel (local port)	DCS channel	
		5	Priority	1	
		6	Alternate Routing Flag	0	
4	350 Word 2	1	Feature	58	Add
		2	1st digit	[0–9]	
		3	2nd digit	[0–9]	
		4	3rd digit	[0–9]	
		5	4th digit	[0–9]	

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Table 4-1. DCS Remote Node Procedure Overview — *Continued*

Step	Procedure	Field	Manager II Field Name	Enter	Press
5	261 Word 1	1	Local Adjunct	2	Change
		2	Local Adjunct Number	[1–8] ¹	
		3	Local Adjunct Type	3	
		4	Version Number	-	
		5	N-digit format	-	
		6	N-digit scrolling	-	
		7	Network Adjunct Number	[1–99]	
6	261 Word 2	1	Network Adjunct Class	2	
		2	Network Adjunct Number	[1-99] ²	
		3	Adjunct Extension	<i>Extension #</i>	
7	275 Word 3	8	Local System #	<i>DCS node # for remote switch [1–20]³</i>	Change
8	258 Word 1	1	Reboot DCIU	1	Change
9	258 Word 2	1	Copy Tables	1	Change

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1. This number must equal the AUDIX number administered in Proc 257 Word 5.
 2. This number equals the number administered for the network adjunct in Proc 261 Word 1.
 3. This number must equal the CAS Main Switch Number in Field 9.

DCS Remote Node Procedures

The following sections explain the procedures outlined in [Table 4-1](#).

257 Word 5

Assign the port application.

Field	Manager II Field Name	Enter
1	Port Number	[switch port] ¹
2	Application Type	13
3	Instance Number	[INTUITY AUDIX machine #] ²

-
1. From Worksheet D: Assign the Data Link
 2. From Worksheet C: Assign the INTUITY AUDIX Split

Press **CHANGE** and **EXECUTE**.

257 Word 2

Assign the local/remote port pairing.

Field	Manager II Field Name	Enter
1	Local Port	1- 64 (on remote switch)
2	Remote Port	[INTUITY AUDIX machine port] ¹

-
1. From Worksheet D: Assign the Data Link. For simplicity, this number should equal the node # of the host switch.

Press **CHANGE** and **EXECUTE**.

257 Word 1

Assign the INTUITY AUDIX system switch port to the DCS link and channel.

Field	Manager II Field Name	Enter
1	Component A — Link (switch)	0
2	Component A — Logical Channel (local port)	[switch port 1–64] ¹
3	Component B — Link (switch)	[DCS node link 1–8] ¹
4	Component B — Logical Channel (local port)	[DCS channel 1–64] ^{1,2}
5	Priority	1
6	Alternate Routing Flag	0

1. From Worksheet F: Assign a DCS Remote Node.
2. For simplicity, this number should equal the node #.

Press **ADD** and **EXECUTE**.

350 Word 2

Administer the dial access codes (DACs).

Field	Manager II Field Name	Enter
1	Feature	58
2	1st digit	[0–9]
3	2nd digit	[0–9]
4	3rd digit	[0–9]
5	4th digit	[0–9]

Press **ADD** and **EXECUTE**.

261 Word 1

Associate the internal AUDIX number with the network AUDIX number.

Field	Manager II Field Name	Enter
1	Local Adjunct	2
2	Local Adjunct Number	[1–8]
3	Local Adjunct Type	3
4	Version Number	-
5	N-digit format	-
6	N-digit scrolling	-
7	Network Adjunct Number	[1–99]

Press **CHANGE** and **EXECUTE**.

261 Word 2

Administer the external network adjunct extension.

Field	Manager II Field Name	Enter
1	Network Adjunct Class	2
2	Network Adjunct Number	[network adjunct #] ¹
3	Adjunct Extension	[INTUITY AUDIX system extension or VDN] ²

-
1. From Worksheet D: Assign the Data Link. This is the same as Word 1, Field 7.
 2. From Worksheet C: Assign the INTUITY AUDIX Split.

Press **ADD** and **EXECUTE**.

275 Word 3

Update the DCIU's on-line translations.

Field	Manager II Field Name	Enter
8	Local System #	DCS node #

Press **CHANGE** and **EXECUTE**.

258 Word 1

Update the DCIU's on-line translations.

Field	Manager II Field Name	Enter
1	Reboot DCIU	1

Press **CHANGE** and **EXECUTE**.

258 Word 2

Refresh the DCIU's scratch pad.

Field	Manager II Field Name	Enter
1	Copy Tables	1

Press **CHANGE** and **EXECUTE**.

Save New Translations

Perform a Run Tape to save the new translations.

If the system has a duplicated common control, the Run Tape operation will update both tapes.

Assign an ACD Split at the Remote Switch

Do the procedures in this section ([Table 4-2](#)) at the remote switch.



NOTE:

The procedures in this section are unnecessary if the switch uses vectoring.

When all tie trunks to the host are busy, calls can be routed to the host over alternate facilities. Calls to an INTUITY AUDIX system subscriber that must route to the INTUITY AUDIX system for coverage must use a tie trunk or the subscriber data will be lost. Make sure these calls stay queued on tie trunks.

In these procedures, use a regular ACD group with only a single member. Call forward the ACD split to the INTUITY AUDIX at the host switch.

Table 4-2. Voice Port Access Procedure Overview

Step	Procedure	Field	Manager II Field Name	Enter	Press
1	010 Word 1	1	Class of Service	COS	Change
		5	Follow Me	1	
		15	Touch-tone Dialing	1	
		20	ACD Member	1	
2	000 Word 1	1	Extension or VDN	member 0 ext	Add
		7	Class of Service	COS	
3	100 Word 1	1	Trunk Group	Q trk grp	Add
		6	Trunk Type	6	
4	026 Word 1	1	ACD Split	DCS INTUITY AUDIX system split	Add
		2	Split Size	16	
		4	Queuing Trunk Group	Q trk grp	
		8	Inflow Level	0	
		9	Hunt Type	0 or 2	
		10	Split Type	0	
5	001 Word 1	1	Primary Extension	member 0 ext	Add
		2	Associated Extension	DCS INTUITY AUDIX system ext	
6	026 Word 2	1	ACD Split	DCS INTUITY AUDIX system split	Add
		2	Supervisor Extension	member 0 ext	
		3	Queue Directory Number	DCS INTUITY AUDIX system ext	
7	026 Word 3	1	ACD Split	DCS INTUITY AUDIX system split	Add
		2	Member	1–63	
		3	Member Extension	member 0 ext	

Voice Port Access Procedures

The following sections explain the procedures outlined in [Table 4-2](#).

010 Word 1

Set up a COS for the ACD members.

Field	Manager II Field Name	Enter
1	Class of Service	[COS] ¹
5	Follow Me	1
15	Touch-tone dialing	1
20	ACD Member	1

-
1. From Worksheet G: Assign a Split at the Remote Switch

Press **CHANGE** and **EXECUTE**.

000 Word 1

Assign an extension number for ACD member 0.

Field	Manager II Field Name	Enter
1	Extension	[member 0 ext] ¹
7	Class of Service	[COS] ²

-
1. From Worksheet G: Assign a Split at the Remote Switch
 2. Enter the [cos] assigned in Procedure 010, Word 1.

Press **ADD** and **EXECUTE**.

100 Word 1

Assign a queue trunk group for the ACD.

Field	Manager II Field Name	Enter
1	Trunk Group	[queuing trunk group #] ¹
6	Trunk Type	6

-
1. From Worksheet G: Assign a Split at the Remote Switch

Press **ADD** and **EXECUTE**.

026 Word 1

Assign the ACD.

Field	Manager II Field Name	Enter
1	ACD Split	[DCS INTUITY AUDIX system split] ¹
2	Split Size	16
4	Queuing Trunk Group	[queuing trunk group #] ²
8	Inflow Level	0
9	Hunt Type	0 or 2 ³
10	Split Type	0

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1. From Worksheet G: Assign a Split at the Remote Switch. If you have a Call Management System (CMS), use the last available split that is not measured.
2. From Worksheet G: Assign a Split at the Remote Switch
3. A circular hunt, 0 is preferred.

Press **ADD** and **EXECUTE**.

Administer Procedure 001 Word 1 before going to Procedure 026, Word 2.

001 Word 1

Assign extensions associated with existing extensions to provide access to the ACD split.

Field	Manager II Field Name	Enter
1	Primary Extension	[member 0 extension] ¹
2	Associated Extension	[DCS INTUITY AUDIX system extension] ¹

1. From Worksheet G: Assign a Split at the Remote Switch

Press **ADD** and **EXECUTE**.

Error code 12 is displayed if the extension number is already assigned as an extension number. Do *not* remove this extension if it is a working station. If it is not a working station, remove it according to the procedures in *DEFINITY® Communications System Generic 2 Administration of Features and Hardware*, 555-104-507, or the appropriate System 85 documentation.

026 Word 2

Administer the ACD split supervisor.

Field	Manager II Field Name	Enter
1	ACD Split	[DCS ¹ INTUITY AUDIX system split]
2	Supervisor Extension	[member 0 extension] ¹
3	Queue Directory Number	[DCS INTUITY AUDIX system extension] ¹

1. From Worksheet G: Assign a Split at the Remote Switch.

Press **ADD** and **EXECUTE**.

026 Word 3

Administer ACD split member characteristics.

Field	Manager II Field Name	Enter
1	ACD Split	[DCS INTUITY AUDIX system split] ¹
2	Member	1-63
3	Member Extension	[member 0 extension]

1. From Worksheet G: Assign a Split at the Remote Switch.

Press **ADD** and **EXECUTE**.

Go to the attendant console (if you are on the customer premises) and Call Forward the supervisor extension to the INTUITY AUDIX system QDN at the remote location.

Assign a Hop Channel

At the host switch, use the following steps ([Table 4-3](#)) to assign a node's INTUITY AUDIX system data channel to hop through the host to the INTUITY AUDIX system.

Table 4-3. Hop Channel Procedure Overview

Step	Procedure	Field	Manager II Field Name	Enter	Press
1	258 Word 1	2	Configuration	0	Display ¹
2	257 Word 1	1	Component A — Link (switch)	DCS host link	
		2	Component A — Logical Channel (local port)	DCS channel	
		3	Component B — Link (switch)	INTUITY AUDIX system link	
		4	Component B — Logical Channel (local port)	INTUITY AUDIX system channel	
		5	Priority	1	

Table 4-3. Hop Channel Procedure Overview — Continued

Step	Procedure	Field	Manager II Field Name	Enter	Press
		6	Alternate Routing Flag	0	Add
3	258 Word 1	1	Reboot DCIU	1	Change
4	258 Word 2	1	Copy Tables	1	Change

-
1. If Field 2 does not display 0, enter 1 in Field 1 and press **CHANGE** and **EXECUTE** to change field 2 to 0.
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Hop Channel Procedures

The following sections explain the procedures outlined in [Table 4-3](#).

258 Word 1

Use this procedure to ensure the scratch pad is unprotected.

Field	Manager II Field Name	Action
2	Configuration	Check that the number = 0 ¹

-
1. If Field 2 does not display 0, enter 1 in Field 1 and press **CHANGE** and **EXECUTE** to change field 2 to 0.

257 Word 1

Assign the hop.

Field	Manager II Field Name	Enter
1	Component A — Link (switch)	[DCS host link] ¹
2	Component A — Logical Channel (local port)	[DCS channel] ¹
3	Component B — Link (switch)	[INTUITY AUDIX system link] ¹
4	Component B — Logical Channel (local port)	[INTUITY AUDIX system channel] ¹
5	Priority	1
6	Alternate Routing Flag	0

1. From Worksheet D: Assign the Data Link.

Press **ADD** and **EXECUTE**.

258 Word 1

Update the DCIUs on-line translations.

Field	Manager II Field Name	Enter
1	Reboot DCIU	1

Press **CHANGE** and **EXECUTE**.

258 Word 2

Refresh the DCIU scratch pad translation tables.

Field	Manager II Field Name	Enter
1	Copy Tables	1

Press **CHANGE** and **EXECUTE**.

Save New Translations

Perform a Run Tape to save the new translations.

If the system has a duplicated common control, the Run Tape operation will update both tapes.

Subscriber Administration on the Remote Node

Assign those subscribers at this DCS node ([Table 4-4](#)). Subscribers on the host node can use Call Coverage, Send All Calls, LWC, Enhanced Call Transfer, and Call Forwarding.

Table 4-4. Subscriber Administration on Remote Node Overview

Step	Procedure	Field	Manager II Field Name	Enter	Press
1	011 Word 1	1	Call Coverage Group	grp #	Add
		2	Extension Activity	1	
		7	Coverage Point Indicator	1	
		8	Coverage Point	1	
		9	Coverage Point Ext/ACD Split/VDN	DCS INTUITY AUDIX system split	
2	000 Word 2 ¹	6	Coverage Group	coverage path	Add
		9	LWC Destination	3 (AUDIX) or 1 (switch)	
		10	INTUITY AUDIX	machine #	
3	063 Word 1	1	Extension	ext #	Add
		2-6	Module, Cabinet, Carrier, Slot, Circuit	equip loc	
4	063 Word 2	1	Extension	ext #	Display
		3	INTUITY AUDIX	1	
5	350 Word 2	1	Feature	58	Add
		2	Digit 1	1st # of DAC	
		3	Digit 2	2nd # of DAC	
		4	Digit 3	3rd # of DAC	
		5	Digit 4	4th # of DAC	

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Table 4-4. Subscriber Administration on Remote Node Overview — Continued

Step	Procedure	Field	Manager II Field Name	Enter	Press
6	261 Word 1	1	Local Adjunct Class	2	Add
		2	Local Adjunct Number	1	
		3	Local Adjunct Type	3	
		7	Network Adjunct Number	net adj #	
7	261 Word 2	1	Network Adjunct Class	2	Change
		2	Network Adjunct Number	net adj #	
		3	Adjunct Extension	INTUITY AUDIX system ext #	

1. Without this procedure, calls cannot forward to the INTUITY system.

Subscriber Administration on Remote Node

The following sections explain the procedures outlined in [Table 4-4](#).

011 Word 1

Add a coverage group with the INTUITY AUDIX system as the coverage point.

Field	Manager II Field Name	Enter
1	Call Coverage Group	[group #] ¹
2	Extension Activity	1 ²
7	Coverage Point Indicator	1 ³
8	Coverage Point	1 (must be the last coverage point)
9	Coverage Point Ext/ACD Split/VDN	[DCS INTUITY AUDIX system split] ⁴

1. From Worksheet H: Assign the Call Coverage Path for Remote Subscribers.
2. This prevents calls from ringing on the second or third appearance of the subscriber's extension number. During testing, calls will forward to the INTUITY AUDIX system instead of ringing on another appearance.
3. This shows that the last point is an ACD split rather than an extension.
4. From Worksheet G: Assign a Split at the Remote Switch.

Press **ADD** and **EXECUTE**.

000 Word 2

Administer the CALL COVERAGE fields.

Field	Manager II Field Name	Enter
6	Coverage Group	[coverage path] ¹
9	LWC Destination	3
10	INTUITY AUDIX	[machine #] ²

1. From Worksheet H: Assign the Call coverage Path for Remote Subscribers.
2. From Worksheet C: Assign the INTUITY AUDIX Split. Enter the same number from Procedure 256, Word 1, Field 8 (Intuity AUDIX).



NOTE:

With early releases of software, Message Retrieval cannot be used to check LWC status (digital voice terminal display modules).

Press **ADD** and **EXECUTE**.

Repeat Word 2 for the next voice terminal.

063 Word 1

Assign Message Waiting.

Field	Manager II Field Name	Enter
1	Extension	[extension #]
2-6	Module, Cabinet, Carrier, Slot, Circuit	[equipment location]
7	Device Type	[device type] ¹
8	Member (button)	[member] ¹

-
1. From Worksheet H: Assign the Call Coverage Path for Remote Subscribers. For more information about these fields, see the appropriate Generic 2 or System 85 administration manual.

Press **ADD** and **EXECUTE**.

063 Word 2

Display the extensions that are assigned the Automatic Message Waiting feature (AMW).

Field	Manager II Field Name	Enter
1	Extension	[extension] ¹
3	INTUITY AUDIX	[machine #] ²

-
1. From Worksheet B: Voice Port Extensions and Names.
 2. Must match the machine number entered for call coverage, procedure 000, Word 2.

Press **DISPLAY** and **EXECUTE**.

Repeat Procedure 063 for the next new extension.

261 Word 1

Assign Call Transfer Into INTUITY AUDIX.

Field	Manager II Field Name	Enter
1	Local Adjunct Class	2
2	Local Adjunct Number	1
3	Local Adjunct Type	3
7	Network Adjunct Number	[1–99]

Press **ADD** and **EXECUTE**.

261 Word 2

Administer the external network adjunct extension.

Field	Manager II Field Name	Enter
1	Network Adjunct Class	2
2	Network Adjunct Number	1
3	Adjunct Extension	[INTUITY AUDIX system extension] ²

-
1. Enter the same number as in Procedure 261, Word 1.
 2. From Worksheet C: Assign the INTUITY AUDIX Split.

Press **CHANGE** and **EXECUTE**.

350 Word 2

Assign a dial access code to feature code 58.

Field	Manager II Field Name	Enter
1	Feature	58
2	Digit 1	[first # of DAC]
3	Digit 2	[second # of DAC]
4	Digit 3	[third # of DAC]
5	Digit 4	[fourth # of DAC]

Press **ADD** and **EXECUTE**.