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2 Switch Integration Planning
Overview

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Switch Integration Planning

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Overview

This chapter includes worksheets to collect the following information:

- Voice port information
- Local and remote switch hunt group information
- Remote and local data link information
- Call coverage assignments
- Hop channel assignments

Purpose

Before you integrate the Lucent INTUITY™ system with a switch, you must plan the process. This chapter provides worksheets and information to help you plan and record the integration. You use the worksheets later to complete the switch integration process.

Continue with the instructions below to plan the switch integration.

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General Switch Integration Planning

Use Worksheet A (Table 2-1) for general voice port information.

Table 2-1.   Worksheet A: General Voice Port Information

Item	Your Entry
Call vectoring used for INTUITY AUDIX? Enter **yes** or **no** to indicate whether calls will arrive at the INTUITY AUDIX® system via a VDN and call vector.	
Number of ports Enter the number of voice ports the INTUITY AUDIX will use.	
Class of Service (COS) # for Voice Ports Enter the number of the class of service that will be assigned to each voice port	
Facilities Restriction Level (FRL) for Voice Port COS Enter the FRL number that will be assigned to the voice port COS. The FRL chosen may depend on whether the customer will have a DCS or use the AMIS/outcalling feature. This FRL should also match the Call Control FRL assigned for attendant use.	

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Worksheet B: Voice Port Extensions and Names

Enter the location, name, and extension for each of the purchased (maximum of 64) voice-ports in the following worksheet ().

Date:	
Prepared By:	
Contact Telephone Number:	

Administer the Lucent INTUITY system to have no more than four ports per half-carrier in a traditional module or a universal module that uses TN742s. Eight ports per TN746B are allowed per half-carrier, with the first four and last four ports used per circuit pack.

⇒ NOTE:

SN228B (required for the AMIS and outcalling features) and SN229 analog line circuit packs are used in traditional modules.TN742 and TN746B analog line circuit packs are used in universal modules.

Table 2-2.   Worksheet B: Voice Port Extensions and Names

LUCENT INTUITY Port	Analog Port Equipment Location[1]	Name[2]	Extension
1		AUDIX 1	
2		AUDIX 2	
3		AUDIX 3	
4		AUDIX 4	
5		AUDIX 5	
6		AUDIX 6	
7		AUDIX 7	
8		AUDIX 8	
9		AUDIX 9	
10		AUDIX 10	
11		AUDIX 11	
12		AUDIX 12	
13		AUDIX 13	
14		AUDIX 14	
15		AUDIX 15	

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Table 2-2.   Worksheet B: Voice Port Extensions and Names — *Continued*

LUCENT INTUITY Port	Analog Port Equipment Location[1]	Name[2]	Extension
16		AUDIX 16	
17		AUDIX 17	
18		AUDIX 18	
19		AUDIX 19	
20		AUDIX 20	
21		AUDIX 21	
22		AUDIX 22	
23		AUDIX 23	
24		AUDIX 24	
25		AUDIX 25	
26		AUDIX 26	
27		AUDIX 27	
28		AUDIX 28	
29		AUDIX 29	
30		AUDIX 30	
31		AUDIX 31	
32		AUDIX 32	
33		AUDIX 33	
34		AUDIX 34	
35		AUDIX 35	
36		AUDIX 36	
37		AUDIX 37	
38		AUDIX 38	
39		AUDIX 39	
40		AUDIX 40	
41		AUDIX 41	
42		AUDIX 42	
43		AUDIX 43	

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Table 2-2. **Worksheet B: Voice Port Extensions and Names** — *Continued*

LUCENT INTUITY Port	Analog Port Equipment Location[1]	Name[2]	Extension
44		AUDIX 44	
45		AUDIX 45	
46		AUDIX 46	
47		AUDIX 47	
48		AUDIX 48	
49		AUDIX 49	
50		AUDIX 50	
51		AUDIX 51	
52		AUDIX 52	
53		AUDIX 53	
54		AUDIX 54	
55		AUDIX 55	
56		AUDIX 56	
57		AUDIX 57	
58		AUDIX 58	
59		AUDIX 59	
60		AUDIX 60	
61		AUDIX 61	
62		AUDIX 62	
63		AUDIX 63	
64		AUDIX 64	
65		AUDIX 65	

1. The equipment location is a 5-part identifier; the first part identifies the module, the 2nd identifies the cabinet, the 3rd identifies the port carrier, the 4th identifies the slot, and the 5th identifies the circuit number. For example, a valid location for Generic 2 is module 0, cabinet 0, port carrier c, slot 10, and circuit number 6. For traditional modules, the port carrier is a number 0–3. For universal modules, the port carrier is a letter c–e.

2. These are the recommended names.

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Worksheet C: Assign the INTUITY AUDIX Split

The following information (Table 2-3) is required to define a hunt group (containing the voice port members) for the Lucent INTUITY system voice ports.

⇒ NOTE:

Only the number of ports actually purchased should be administered in the hunt group.

Date:	
Prepared By:	
Contact Telephone Number:	

Table 2-3. Worksheet C: Assign the INTUITY AUDIX Split

Item	Your Entry
INTUITY AUDIX Machine Number Enter the number of the INTUITY AUDIX you are administering on the local switch. The recommended number is 1 on a switch or DCS with a single AUDIX system.	
Trunk Group Number for the INTUITY AUDIX Split Enter the number of the queuing trunk group (1–256) to carry calls to the INTUITY AUDIX split. Normally the first available trunk group starting from 256 and counting down is used.	
INTUITY AUDIX Split Number Enter the number of the INTUITY AUDIX split.	
Extension to Access INTUITY AUDIX Split Enter the split's Queue Directory Number (QDN) or Vector Directory Number (VDN).	
Vector Number (if vectoring used) Enter the number of the vector to which the VDN is assigned and which directs calls to the INTUITY AUDIX system.	

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Worksheet D: Assign the Data Link

Use this worksheet (Table 2-4) to plan the DCIU (BX.25) data link.

⇒ NOTE:

You should regard the values and terms used in the following table as those used for administering the switch to work with the Lucent INTUITY system.

Date:	
Prepared By:	
Contact Telephone Number:	

Table 2-4.　Worksheet D: Assign the Data Link

Item	Your Entry
Switch Number Enter the number of the switch to which the Lucent INTUITY system is connected.	
Interface Link Number Enter the number (1–8) of the DCIU link that will connect to the Lucent INTUITY system.	
Local DCIU Port Number to INTUITY AUDIX Enter the DCIU port number (1–64) connected to the INTUITY AUDIX. This will equal the switch port number administered on the Lucent INTUITY system.	
Remote DCIU Port Number (and Logical Channel on the Lucent INTUITY System) Enter the remote DCIU port number (1–64) of the INTUITY AUDIX system. This will equal the logical channel (local port) administered on the Lucent INTUITY system.	
Network Adjunct Number (if Transfer Into AUDIX is used) Enter any unused number (1–99) to identify the INTUITY AUDIX system as a network adjunct.	

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Worksheet E: Assign the Call Coverage Path for Subscribers

Complete this worksheet (Table 2-5) to define call coverage paths for subscribers.

Date:	
Prepared By:	
Contact Telephone Number:	

**Table 2-5.   Worksheet E: Assign the Call Coverage Path for
                         Subscribers**

Item	Your Entry
COS Number for Subscriber Stations Enter the number of the Class of Service subscribers will have.	
Call Coverage Group Number Enter the number of the call coverage group for subscribers.	
Calls Go to Coverage When Appearance 1 is Busy? Enter **yes** if the stations will be analog sets and **no** if they will be digital sets. ⊒⊳ **NOTE:** For testing INTUITY AUDIX stations, telephone sets are not required. Therefore, this parameter is optional.	

You have completed the worksheets and planning necessary for a Lucent INTUITY system switch integration. If you do not have a DCS environment, continue with Chapter 3, "Switch Administration". If you are placing a Lucent INTUITY system in a DCS network, continue with "DCS Worksheets" section below.

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DCS Worksheets

Complete the following worksheets (Table 2-6, Table 2-7, and Table 2-8) if the
Lucent INTUITY system operates in a DCS environment. If you have an existing
DCS network or if you are installing one, the GBCS Design Center may have
designed the DCS network with a Lucent INTUITY system. The worksheets in this
section contain the same information the Design Center may have already
created. Use these worksheets to verify that you have all required information and
as a single point of reference.

This section contains worksheets for BX.25 signaling. For each remote switch in
the DCS network, complete one set of DCS worksheets. Before you complete the
worksheets, remove the worksheets from this book and make copies for each
switch in the network.

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Worksheet F: Assign a DCS Remote Node

Use this worksheet (Table 2-6) to plan the remote DCS nodes. Complete one copy of this worksheet for each remote switch in the DCS network.

➡ NOTE:

Except where noted, you should regard the values and terms used in the following table as those used for administering a switch that is a remote node in a DCS.

Date:	
Prepared By:	
Contact Telephone Number:	

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Table 2-6. Worksheet F: Assign a DCS Remote Node

Item	Your Entry
DCS Node Link and Channel Enter the number of the DCIU local port (1–64) on the remote switch and its logical channel (1–64). The switch's local port equals the remote port number and logical channel administered on the host switch.	
DCS Node Number Enter the DCS node number of the remote switch. This is the switch number administered on the INTUITY AUDIX system.	
Local DCIU Port Number to INTUITY AUDIX Enter the DCIU port number (1–64) connected to the INTUITY AUDIX. This will equal the switch port number administered on the INTUITY system.	
Remote DCIU Port Number Enter the remote DCIU port number (1–64) of the INTUITY AUDIX. This should equal: ■ The logical channel (local port) administered on the Lucent INTUITY system ■ The logical channel on the host link that connects to this remote node ■ An additional logical channel administered on the host's DCIU link to the Lucent INTUITY system. This channel hops signalling from the remote node to the Lucent INTUITY system.	
Host Link Enter the number (1–8) of the DCIU link **on the host switch** that will be physically connected to this remote node.	
Host Local Port Enter the DCIU port number (1–64) **of the host switch** that will be connected to this remote node. This number must equal: ■ The logical channel on the Lucent INTUITY system assigned to the remote node ■ The remote DCIU port number and logical channel administered on this remote node	

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Worksheet G: Assign a Split at the Remote Switch

Use this worksheet (Table 2-7) to plan the split on each remote switch in the DCS network.

Date:	
Prepared By:	
Contact Telephone Number:	

Table 2-7. Worksheet G: Assign a Split at the Remote Switch

Item	Your Entry
COS for ACD Split on Remote Switch Enter the COS number of members of the ACD split. Unanswered calls to subscribers on the remote switch will go to coverage to this split. Calls are then forwarded to the INTUITY AUDIX split on the host switch.[1]	
Extension of Split Member 0 Enter an extension for member 0 in the split.	
Queuing Trunk Group Number Enter the number of the trunk group that will carry calls to the ACD split.	
ACD Split Number Enter the split number on the remote switch to which subscribers will queue when calling or forwarding to INTUITY AUDIX.	
ACD Split Extension Enter the extension to which unanswered calls to remote subscribers go for coverage on the remote switch. From this coverage point, calls are then forwarded to the INTUITY AUDIX on the host switch.	

1. If the remote switch uses vectoring, unanswered calls can simply go to a VDN for coverage. The VDN can then terminate at a vector. The vector should contain a "route-to" step that routes to the INTUITY AUDIX system (via a QDN or AD list number). A "stop" step should then immediately follow the route-to step.

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Worksheet H: Assign the Call Coverage Path for Remote Subscribers

Complete this worksheet (Table 2-8) to define call coverage paths for subscribers.

Date:	
Prepared By:	
Contact Telephone Number:	

**Table 2-8.   Worksheet H: Assign the Call Coverage Path for
Remote Subscribers**

Item	Your Entry
COS Number for Remote Subscriber Stations Enter the number of the Class of Service remote subscribers will have.	
Call Coverage Group Number Enter the number of the call coverage group for remote subscribers.	
Calls Go to Coverage When Appearance 1 is Busy? Enter **yes** if the stations will be analog sets and **no** if they will be digital sets. ⊟▷ **NOTE:** For testing INTUITY AUDIX stations, telephone sets are not required. Therefore, this parameter is optional.	

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