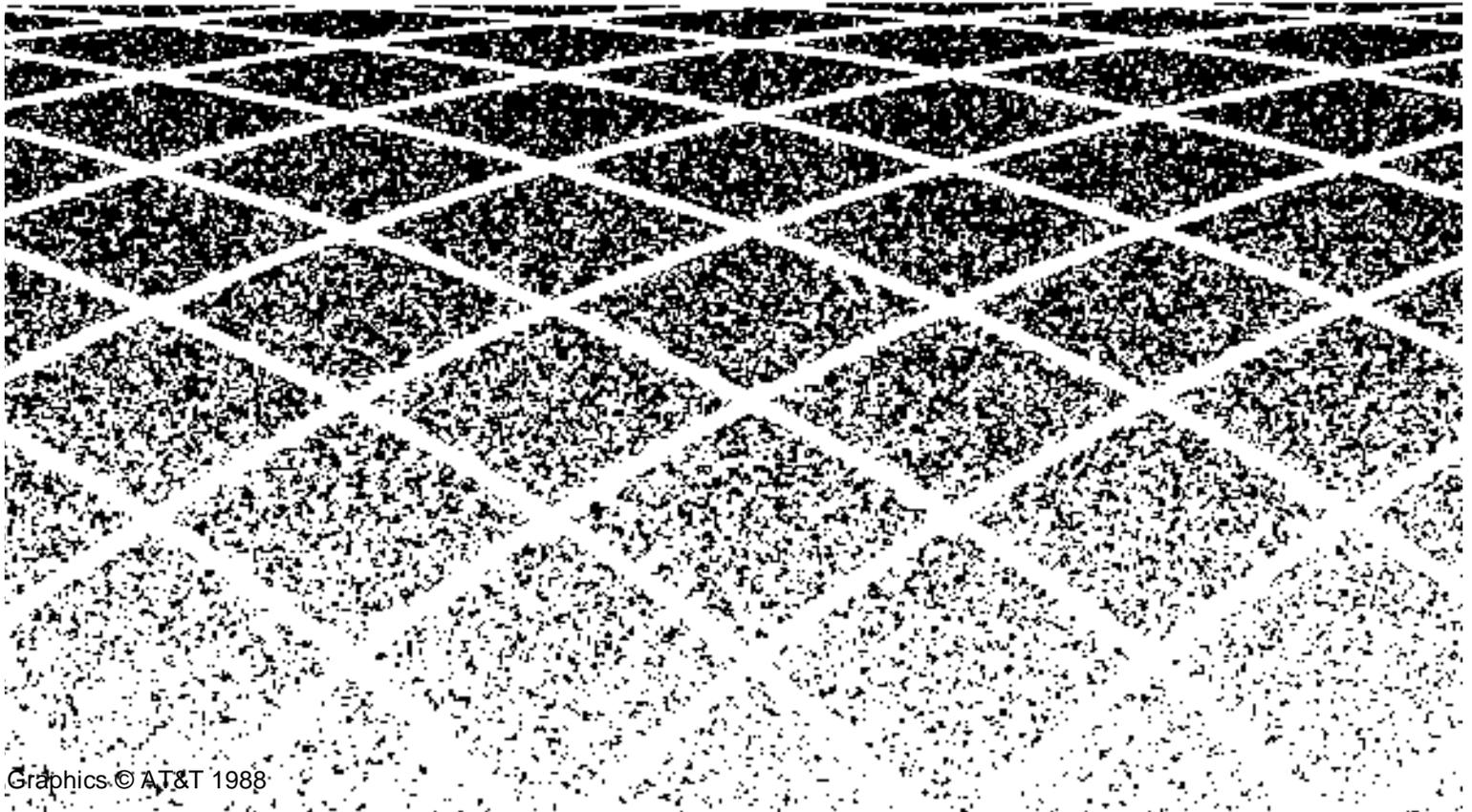




585-304-110
Issue 1
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DMS-100 Switch Integration Package for AUDIX Installation and Maintenance Procedures



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About This Document

1

This booklet will cover supplementary DMS-100 Switch to AUDIX installation and maintenance procedures for a one- or two-cabinet AUDIX. The DMS-100 Switch integration is *not* available for an AUDIX-L. The DMS-100 Switch to AUDIX connection is similar to the 1A ESS Switch to AUDIX connection with a few exceptions. Only the exceptions are covered in this booklet.

⇒ NOTE:

You can also use this booklet to install AUDIX with an SL-100 Switch.

Intended Audiences

The descriptions and procedures in this booklet are written for on-site service technicians and remote service personnel, including the National Customer Support Center (NCSC).

How This Document Is Organized

This booklet is divided into two sections: Installation and Maintenance. The installation section covers hardware installation and AUDIX administration. The maintenance section outlines maintenance form and alarm table changes.

Conventions Used In This Document

The following typographic conventions are used in this booklet:

- Terminal keys that you press are shown in curved-edge boxes. For example, an instruction to press the return, carriage return, or equivalent key is shown in this booklet as:

Press `(RETURN)`

- Information that is displayed on your terminal screen—including screen displays, field names, prompts, and error messages—is shown in constant-width type. Information that you enter from your keyboard is shown in constant-width bold type. Here is an example:

At the `login ID?` prompt, enter **snowfox**

- Variables that the system supplies or that you must supply are shown in italic type. For example, an error message that is displayed on the screen with one of your specific filenames is shown generically in this document as:

Your file *filename* is formatted incorrectly.

Trademarks And Service Marks

The following trademarked products are mentioned in this booklet:

- 1A ESS Switch is a trademark of AT&T.
- DMS-100 is a registered trademark of Northern Telecom Limited.
- SL-100 is a registered trademark of Northern Telecom Limited.

Related Resources

This booklet contains supplementary DMS-100 Switch information for Issue 1 of the *AUDIX Enhanced III Installation* manual (585-304-105) and Issue 1 of the *AUDIX Enhanced III Maintenance* manual (585-304-106). This booklet is designed to be used in conjunction with these manuals.

Consult the *AUDIX Integration Package for the DMS-100 Switch: Administration and Reference* booklet (585-304-204) if you need information on ordering or an overview on features.

How To Make Comments About This Document

If you have any suggestions for improving this document, use the feedback form at the end of this booklet.

If your feedback form is missing, send your comments to:

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1200 West 120th Avenue
Westminster, Colorado 80234-2703

Use the following procedures along with the AUDIX Enhanced *III Installation* manual (585-304-105) to install an AUDIX Enhanced III (R1V4_5) system.

⇒ NOTE:

Chapter 1 of the installation manual provides an overview of the installation process, where to go for help, related documents, tools required, etc.

DMS-100 Switch Preparations

The DMS-100 Switch requires the following software to support fully integrated AUDIX applications:

⇒ NOTE:

These lists are provided for your information only. It is the customer's responsibility to verify that these switch translations are on the DMS-100 Switch prior to the installation of AUDIX.

Software

The DMS-100 Switch requires the BCS24 (or later) software release in order to support the AUDIX Simplified Message Service Interface (SMSI) data link; Northern Telecom calls this link the Simplified Message Desk Interface (SMDI) link.

SMSI Feature Packages

The following software packages are required on the DMS-100 Switch in order to support full operation of the SMSI (or SMDI) feature:

- NTX100: Meridian Digital Centrex—Basic (IBN)
- NTX101: Meridian Digital Centrex—Enhanced Business Services (IBN)
- NTX119: Message Service
- NTX730: ASCII Driver
- NTX732: Simplified Message Desk Interface (SMDI).

⇒ NOTE:

NTX100 and NTX101 contain the Uniform Call Distribution (UCD) features required for basic message-desk operation. NTX119 allows AUDIX to request message-waiting updates. NTX730 and NTX732 enable the DMS-100 Switch to send call-setup information to AUDIX

POTS Users

In order for Plain old Telephone Service (POTS) customers to use the message desk, either NTX020 (Vertical Services I) or NTX806 (Enhanced Call Forwarding—POTS) packages must be available *in addition* to the packages listed previously.

Switch Translations

The following DMS-100 switch translations are translated on the switch prior to installation:

- The Uniform Call Distribution (UCD) group lines and Centrex lines (including UCD group extensions and subscriber extensions).
- Individual stations are translated for Busy Forward and No Answer Forward.
- The access code is translated to set the station for All Calls Forwarded. (This is an optional feature.)
- The data link baud rate is set to 1200.
- The parity is set to 0 (no parity).
- The individual UCD agents have the capability to originate calls (for transfer, outcalling, AMIS Analog Networking, and Message Delivery).
- There is queuing on the UCD group (at least three slots).
- There is automatic cutoff on disconnect. (Timing is normally 400 milliseconds.)
- The Call Request Retrieval feature is set up to work with the AUDIX system.

Information For The Technician

Make sure you have the following assignments before continuing with this installation. The following information is supplied by the customer:

- All Multi-Line Hunt Group (MLHG) numbers or Message Desk Center (MDC) numbers
- MLHG used for voice mail and call answer
- MLHG or individual line used for automated attendant (optional)
- Individual line(s) for outcalling (optional)
- Extensions

⇒ NOTE:

You will need to know what extensions and hunt group members are assigned to each physical location of the voice ports. There is not always a logical correlation.

AUDIX Inventory

1. Go to Chapter 2 of the installation manual to perform the inventory.

In addition to the inventory listed in this section, you will also need the following:

- A TN547B Multiprotocol Switch Interface (MPSI) installed in slot 15 of the AUDIX base cabinet.
- AUDIX R1V4_5 Integrations Package 2 software shipped on the AUDIX disk cartridges (two cartridges). The labels on the cartridges are as follows:
 - AUDIX one-cabinet PG-3E082 (J58889UB-1, List 8)
 - AUDIX two-cabinet PG-3E083 (J58889UB-1, List 9)
- 66MI-50 connecting blocks for the AUDIX cables.

2. Go to Chapter 6 of the installation manual for the data link inventory.

Cabling AUDIX To The Demarcation Point

The following procedures are for an AUDIX system installed on the customer premises. The lines from the DMS-100 Switch must be installed up to the demarcation point (the 66MI-50 connecting block). One analog line is required for each AUDIX voice port, for the AUDIX alarm circuit, and for remote maintenance locations (if provided). one full duplex channel on the 1x67BC Terminal Card installed up to the demarcation point is required for the data link.

Data Link Cabling

The DMS-100 Switch data link is the same as the data link for the 1A ESS Switch (see Figure 2-1). Go to Chapter 6 in the installation manual and follow those procedures.

Use Table 2-A as a guide when making the cross connects.

Table 2-B is included for your information when setting the options for a 202T modem (or equivalent).

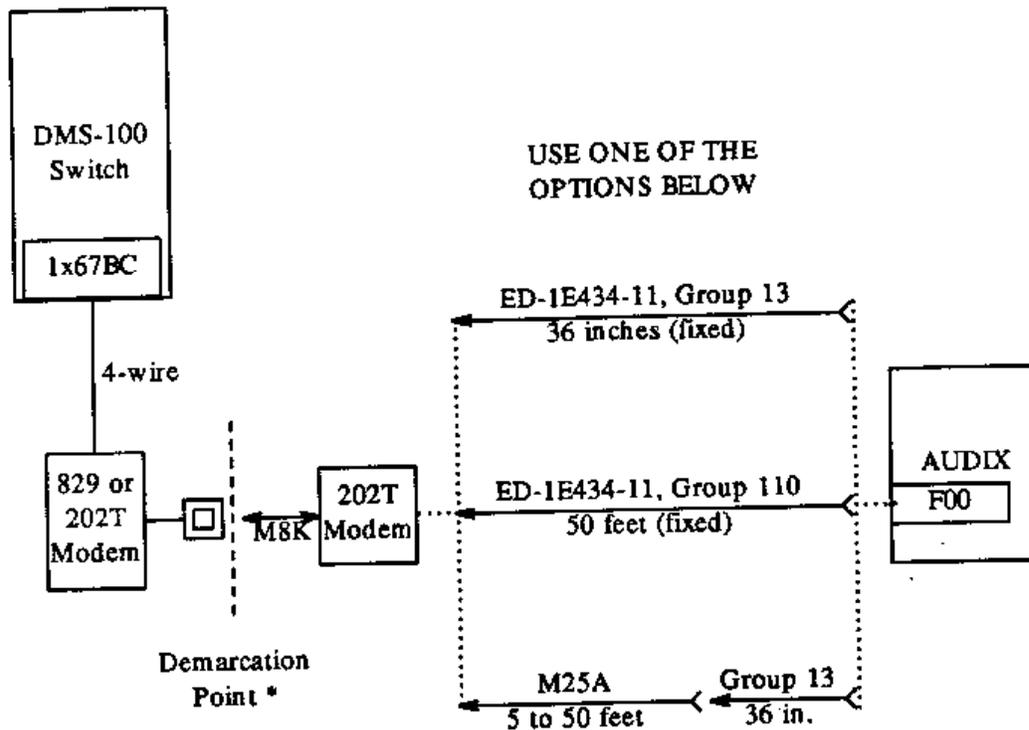


Figure 2-1. DMS-100 Switch Data Link

* If the customer provides both 202T modems, the demarcation point will be between the Group 13, Group 110, or M25A cable and the 202T modem.

Table 2-A. Pinouts and Wiring For an RS232C Connection

Pin No.	Lead Designation	Function	Cable Color
26 1	NC FG or AA	NC Protective Ground	W/ BL BL/ W
27 2	NC SD (TXD) or BA	NC Transmitted Data	W/ O O/ W
28 3	NC RD (RXD) or BB	NC Received Data	W/ GR GR/ W
29 4	NC RTS or CA	NC Request to Send	W/ BR BR/ W
30 5	NC CTS or CB	NC Clear to Send	W/ S S/ W
31 6	NC DSR or CC	NC Data Set Ready	R/ BL BL/ R
32 7	NC SG or AB	NC Signal Ground (Common Return)	R/ O O/ R
33 8	NC CD or CF	NC Received Line Signal Detector	R/ GR GR/ R
34 9	NC NC	NC NC	R/ BR BR/ R
35 10	NC NC	NC NC	R/ S S/ R
36 11	NC NC	NC NC	BK/ BL BL/ BK
37 12	NC NC	NC NC	BK/ O O/ BK

TABLE 2-1. Pinouts and Wiring For an RS232C Connection (continued)

Pin No.	Lead Designation	Function	Cable Color
38	NC	NC	BK/ GR
13	NC	NC	GR/ BK
39	NC	NC	BK/ BR
14	NC	NC	BR/ BK
40	NC	NC	BK/ S
15	ST or DB	Transmission Signal Element Timing (DCE Source)	S/ BK
41	NC	NC	Y/ BL
16	NC	NC	BL/ Y
42	NC	NC	Y/ O
17	RT or DD	Receiver Signal Element Timing (DCE Source)	O/ Y
43	NC	NC	Y/ GR
18	NC	NC	GR/ Y
44	NC	NC	Y/ BR
19	NC	NC	BR/ Y
45	NC	NC	Y/ S
20	DTR or CD	Data Terminal Ready	S/ Y
46	NC	NC	V/ BL
21	NC	NC	BL/ V
47	NC	NC	V/ O
22	IC or CE	Ring Indicator	O/ V
48	NC	NC	V/ GR
23	NC	NC	GR/ V
49	NC	NC	V/ BR
24	TT or DA	Transmit Signal Element Timing (DTE Source)	BR/ V
50	NC	NC	V/ S
25	NC	NC	S/ V

NC = No Connection

Table 2-B. Option Settings for the 202T Modem

Switch S2				
Segment	Position	Feature	Option	Description
1	X	4-Wire Operation	ZK*	—
2	X	Soft Turnoff and Squelch Intervals	Z	0 (soft turnoff) 0 (squelch)
3	X	Fast Carrier Detection	N	Out (Normal Mode)
4	0	Clear-to-Send Interval	M*	8 ms
5	0	—	—	—
6	0	Soft Turnoff and Squelch Intervals	Z	0 (soft turnoff) 0 (squelch)
7	X	Soft Turnoff and Squelch Intervals	Z	0 (soft turnoff) 0 (squelch)
8	0	Soft Turnoff and Squelch Intervals	Z	0 (soft turnoff) 0 (squelch)
9	X	—	—	—
0	0	Clear-to-Send Interval	M*	8 ms

Switch S3				
Segment	Position	Feature	Option	Description
1	0	4-Wire Operation	ZK*	—
2	0	Compromise Delay Equalization	ZU*	Maximum
3	0	Channel Condition	ZY*	Basic
4	0	4-Wire Operation	ZK*	—
5	0	Compromise Amplitude Equalization	ZW*	Maximum
6	X	4-Wire Operation	ZK*	—
7	X	4-Wire Operation	ZK*	—
8	X	4-Wire Operation	ZK*	—
9	X	4-Wire Operation	ZK*	—
0	X	4-Wire Operation	ZK*	—

(continued)

* Factory furnished.

X = Rocker down on the side adjacent to the numbers (closed).

O = Rocker up on the side adjacent to the numbers (open).

TABLE 2-B. Option Settings for the 202T Modem (continued)

Switch S4				
Segment	Position	Feature	Option	Description
1	X	Continuous Carrier	ZN	In
2	0	Carrier Detector Reset	ZM*	Out
3	X	State of CC (Data Set Ready) During Analog Loopback	YB	On

* Factory furnished.

X = Rocker down on the side adjacent to the numbers (closed).
O = Rocker up on the side adjacent to the numbers (open).

Voice Port Cabling

The voice port cabling for the DMS-100 Switch connection is identical to the 1A ESS Switch procedures in Chapter 6 except you will need to use a 66MI-50 connecting block as a demarcation point for the voice ports.

Follow the procedures in Chapter 6 of the installation manual for the AUDIX alarm circuit and the AUDIX maintenance terminal.

AUDIX Initialization

Refer to Chapter 6 (if using an R1V4 manual) or Chapter 9 (if using an R1V5 manual) in the installation manual and follow the procedures up to the "AUDIX ADMINISTRATION" section.

AUDIX Administration

Follow the procedures in the installation manual (Chapter 6 or 9) up to the "Switch Connection" section. Replace this section with the following procedures.

Switch Connection

Go to the system : translation : .switch connection form Figure 2-2). The system is shipped with connection type set to **dciu-sci**. For the DMS-100 Switch, do the following:

Step 1: Next to connection type enter **smsi**. Press **(F1)** (CHANGE or RUN). A new set of fields will be displayed.

Step 2: Set host type to **dms100**.

Step 3: Set data speed to **1200**. The default is 1200.

⇒ NOTE:

Northern Telecom does not recommend 2400 or 4800 baud rates.

Step 4: Verify that channel terminal type is set to **c**.

⇒ NOTE:

The system default is **c**. Typing anything else will not be accepted by the machine.

Step 5: The call answer timeout and timeout treatment (m/n/t) fields are normally set by the System Administrator. If you require more information on these fields, see the *AUDIX Integration Package for the DMS-100 Switch: Administration and Reference* booklet, Issue 1 (585-304-204).

Step 6: Select the `end to end datalink number`. (This field is used by Development personnel to check the data link between the DMS-100 Switch and AUDIX) The system will default to 0000000. Insert blanks in this field to prevent the switch from logging errors.

Step 7: Tab to the `voice port disconnect timing (milliseconds)` field. Set the timing value to 300. If you need to adjust the timing after testing, make sure the timing value is a value *lower* than the switch (which is normally set to 400). The default is set to 400 milliseconds.

 **NOTE:**

The timing range is typically between 250-350.

Step 8: Set host switch to 1.

Step 9: Set `AUDIX` to the AUDIX machine number.

Step 10: Select the `address ranges`. Enter the address ranges specified by the customer. Verify that the ranges are based on the following:

- The number of digits must be consistent with the number of digits specified on the `system : translation : machine : audix` form.
- Ranges cannot overlap.
- The ending extension number must be greater than or equal to the beginning extension number.
- You may enter from one to eight ranges. A minimum of one range is required.

Step 11: Tab to the `public network number` and enter the office code(s) specified by the customer followed by the first digits in the range. See Figure 2-2 for an example.

Step 12: Press  (CHANGE or RUN).

Continue with Chapter 6 in the installation manual up to "AUDIX TESTS."

```

AUDIX STATUS: alarms: M , logins:1, thresholds:none
PATH: system : translation : switch connection
connection type (dclu-sci/smsi/bri-api/standalone): smsi
(PRESS CHANGE TO MODIFY CONNECTION TYPE, NEW FIELDS WILL BE DISPLAYED)

  (THE FOLLOWING FIELDS APPLY ONLY TO A SMSI CONNECTION TYPE)

host type (laess/5ess/dms100/s1100): dms100
data speed (1200- 9600) : 1200 channel terminal type (c/t) : t
call answer timeout (seconds): 5
timeout treatment (m/n/t) : n extension: _____
end to end datalink number: 5551212
voice port disconnect timing (milliseconds) : 300
host switch: 1 AUDIX: 1

address ranges (first / last extension public network number)
1: _____ / _____ 2770000
2: _____ / _____ 9541000
3: _____ / _____ 3330000
4: _____ / _____
5: _____ / _____
6: _____ / _____
7: _____ / _____
8: _____ / _____
    
```

Error and confirmation messages appear here.

CHANGE ADD DELETE HELP FIELD MORE EXIT ENTER

Figure 2-2. The system : translation : switch connection Form (SMSI)

AUDIX Tests

Use all the tests in Chapter 6 (if using an R1V4 manual) or Chapter 9 (if using an R1V5 manual) of the installation manual.

DMS-100 Switch Tests

<p>If any of the test calls fail, check the following to debug the AUDIX-to-switch analog circuits:</p>
<p>Check dial tone from the switch port on the cross-connect field.</p>
<p>Check continuity to the AUDIX backplane.</p>
<p>Make sure a yellow LED on the AUDIX VPT circuit pack lights while the line is ringing.</p>
<p>Check for frogged lines (e.g., Port 0 wired or translated to Port 1.)</p>

AUDIX Feature Tests

The feature testing for the DMS-100 Switch is identical to the test procedures in Chapter 6 (R1V4) or Chapter 9 (R1V5) of the installation manual.

Individual Voice Port Tests

1. Dial the 4- or 5-digit extension number associated with the first port. You should receive the Stand-alone greeting.
2. Dial each extension number until you've tested all the ports.

⇒ NOTE:

You may get a bad translation message on the administrative log after making these test calls. Check the `system : translation : voice port` and `system : translation : switch connection` forms to verify that all the data on both forms match.

This chapter covers maintenance changes in the `system : translation : switch connection and maintenance : vsp : busyout forms`.

The System Translation Switch Connection Form

This form has changed to support the handling of multiple address ranges, and the addition of the following fields:

- `host type (laess/5ess/dms100/s1100)`
- `data speed`
- `voice port disconnect timing`
- `end to end datalink number.`

⇒ NOTE:

For an example of how to use this form, see Section 2.5.1 in this booklet.

Use this form to define data links from the switch to AUDIX

For more specific information on the use of this form, see the *AUDIX Enhanced III Forms Reference* manual (585-304-202).

```

AUDIX STATUS: alarms: M , logins:1, thresholds:none
PATH: system : translation : switch connection
connection type (dc1u-sci/sms1/bri-api/standalone): sms1
(PRESS CHANGE TO MODIFY CONNECTION TYPE, NEW FIELDS WILL BE DISPLAYED)

(THE FOLLOWING FIELDS APPLY ONLY TO A SMSI CONNECTION TYPE)
host type (laess/5ess/dms100/sl100): dms100
data speed (1200-9600) : 1200 channel terminal type (c/t) : t
call answer timeout (seconds): 5
timeout treatment (m/n/t) : n extension: _____
end to end datalink number: 5551212
voice port disconnect timing (milliseconds) : 300
host switch: 1 AUDIX: 1

address ranges (first / last extension public network number)
1: _____ / _____ 2770000
2: _____ / _____ 9541000
3: _____ / _____ 3330000
4: _____ / _____
5: _____ / _____
6: _____ / _____
7: _____ / _____
8: _____ / _____
    
```

Error and confirmation messages appear here.

CHANGE ADD DELETE HELP FIELD MORE EXIT ENTER

Figure 3-1. The system : translation : switch connection Form (SMSI)

Changing the Fields

Whenever a change is made on the system : translation : switch connection form, you must perform the actions listed in Table 3-A to make the changes known to the AUDIX software.

Table 3-A. Field Changes on the - system : translation : switch connection Form

Field Change	Action
data speed	Run the test on the maintenance : datalink : test form
host type	Restart the system or run the maintenance : datalink : test form
end to end confirmation number	Run the test on the maintenance : datalink : test form
voice port disconnect timing	Restart the system
address ranges	Run the Service Dispatcher audit on the maintenance : audits FP form

The Maintenance Vsp Busyout Form

This form now has a reason field added to each port to list the reason(s) for the busyout. (This is used only for VPTs.)

The maintenance : vsp : busyout form for the one- and two-cabinet AUDIX is identical to the form for the AUDIX-L. This form displays or changes the busy/ released state of a Voice Session Processor (VSP) device (a VB, TDBI, VPC, or VPT). It may be used to find general TD-bus problems, such as busying-out each port to try to find an unalarmed problem. It is also used to busy-out boards when replacing VSP devices. Busied-out VSP devices can also be released by a reboot or restart.

Form Path

Form path: maintenance : vsp : busyout

Abbreviation: Type **m vs b** and press **F8** (ENTER).

```

AUDIX STATUS: alarms: none, logins: 1, thresholds: none
PATH: maintenance : vsp : busyout

VSP Busyout
VSP Type (VB TDBI VPC VPT): ____
Port      State Reason      State Reason      State Reason      State Reason
1- 4:     -                -                -                -
5- 8:     -                -                -                -
9- 12:    -                -                -                -
13- 16:   -                -                -                -
17- 20:   -                -                -                -
21- 24:   -                -                -                -
25- 28:   -                -                -                -
29- 32:   -                -                -                -

STATE:    r - Released    b - Force Busyout  c - Campon Busyout
REASONS:  C - Craft/Unequipped  F - Fault          T - Testing
          D - Data Translations  S - Switch has Busied  R - Resources
  
```

Error and confirmation messages appear here.

CHANGE ADD DELETE HELP FIELD MORE EXIT ENTER

Tasks

To Busy-out or release a VSP device:

1. Type in the VSP Type (VB, TDBI, VPC, VPT):
2. Tab to the desired port field and type in the STATE (r = release, b = forced busy-out, c = camp-on busy-out).
3. Press **F8** (CHANGE or RUN). The State field should confirm the action you chose, r (released) or b (busied out). (Camp-on busy-out may take up to two minutes; if it cannot complete, press **F8** [CHANGE or RUN] again.)

To display status:

1. Type in the VSP Type (VB, TDBI, VPC, VPT): and press **F8** (CHANGE or RUN).
2. The status for equipped ports appears. Ports that are not equipped or installed always show up as b (busy).

To clear a busyout:

Use Table 3-B on the following page to clear a busyout.

Table 3-B. Clearing a Busyout

Code	Reason	Clearing Procedure
C	Busied for craft/ unequipped	Type r . Press CHANGE . Press CHANGE again to verify the release.
F	Busied for a fault	Go to the maintenance : error : display form. Fix the error code displayed on this form by using the tables in the maintenance manual. (See "Error Log (Display and Use)" in Appendix A of the <i>AUDIX Enhanced III Maintenance</i> manual [585-304-106].) Go to the maintenance : vsp : equipage form. Type UEQ in the appropriate port. Press CHANGE . Erase UEQ . Type EQ in the appropriate port. Press CHANGE . Return to the maintenance : vsp : busyout form. Type r . Press CHANGE . Press CHANGE again to verify the release.
T	Busied for a test	Display the status again after waiting a few minutes.
D	Busied for data translations	Go to the system : translation : voice port form. Fix the translations on the appropriate port(s). Press CHANGE . Go to the maintenance : vsp : equipage form. Type UEQ in the appropriate port. Press CHANGE . Erase UEQ . Type EQ in the appropriate port. Press CHANGE . Return to the maintenance : vsp : busyout form. Type r . Press CHANGE . Press CHANGE again to verify the release.

Code	Reason	Clearing Procedure
S	Busied by the switch (could be an outcall in the case of a DCIU)	Notify the Switch Administrator.
R	Busied because there were not enough resources to support all of the ports	Check the configurator by counting the VSP (VB, TDBI, VPC, VPT) boards.

NOTE: This form can display more than one reason code for each port.

Form Fields

- VSP Type (VB, TDBI, VPC, VPT)

The VSP hardware you want to busy-out, release, or display status.

- STATE

This form is either:

- r - Released Causes the port to be released from a busy-out state.
- b - Force Busyout Forces all traffic off the ports and then busies them out.
- c - Campon Busyout Waits for each port to be idle before busying-out the port. If this takes longer than two minutes, you may need to repeat the request.

- State

Shows **r** if the port is released, or **b** if it is busied out.



NOTE:

Unequipped or uninstalled ports always appear on this form as busy (b).

- Reason

Displays the reason for the busyout. (This is used only for VPTs.)

Display Messages

See Appendix C in the AUDIX *Enhanced III Forms Reference* manual (585-304-202) for an explanation of any displayed messages. This form will also display At least two ports must be busied out if VPT 5 is equipped and you tried to release all 32 VPT ports.

Additional Specifications

Available In - Normal (in-service) mode.

Service Effects - Increases or decreases the number of available resources.

Prerequisites - If a port board is unequipped, this form shows the port as busy. An unequipped port cannot be released until it is first equipped (see the maintenance: vsp: equipage form in the forms manual).

Data Base Effects - None.

Response Time - Less than 30 seconds.

Alarms Resolved - None.

Alarm Table Changes

The unit numbers on Tables 4-M and 5-A in the maintenance manual have been changed from 139 to 30. Units numbered 30 remain the same.

Table 3-C. MPSI (TN547) Alarm Resolution (R1V4 Version)

Alarm Log		Description	Repair Action		
Fault	Unit:Dev		1st Choice (ckt,slot,proc.)	2nd Choice	3rd Choice
344	139 : 0	MPSI Configured for DCIU_ SCI switch	TN547, 15, B	Data link	-
346	139 : 0	Corrupt MPSI	TN547, 15, A	Data link	-

Table 3-D. MPSI (TN547) Alarm Resolution (R1V4_5 Version)

Alarm Log		Description	Repair Action		
Fault	Unit:Dev		1st Choice (ckt,slot,proc.)	2nd Choice	3rd Choice
344	30 : 0	MPSI Configured for DCIU_ SCI switch	TN547, 15, B	Data link	-
346	30 : 0	Corrupt MPSI	TN547, 15, A	Data link	-