

# 5

## Programming the 3A Translator

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### Overview

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This chapter describes the 3A SMSI (simplified message desk interface) translator. It includes:

- Illustrations of the translator
- Listings of options and default settings
- Instructions for setting the required options



**NOTE:**

Before programming the 3A translator, ensure that all hardware connections to the 3A translator have been made. For information about hardware connections for Lucent™ 5ESS® switch integrations, see [Chapter 4, "Hardware Installation for 5ESS Switch Integration with the 3A Translator"](#).

### Purpose

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This chapter provides the procedures necessary to program the 3A translator.



## 3A Translator Setup Switches

To program the 3A translator, use the setup switches on the front of the box. For a view of the 3A translator box, see [Figure 5-1](#). For a closeup view of the front of the box, see [Figure 5-2](#).

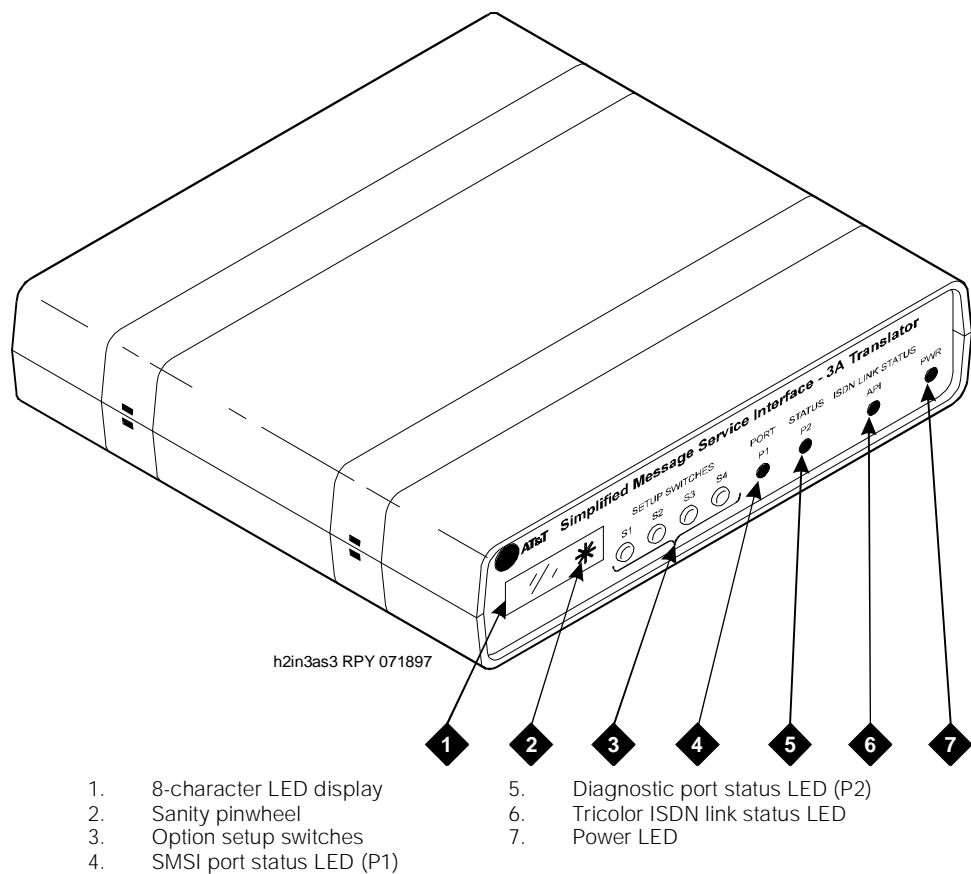


Figure 5-1. Front Panel of 3A SMSI Translator



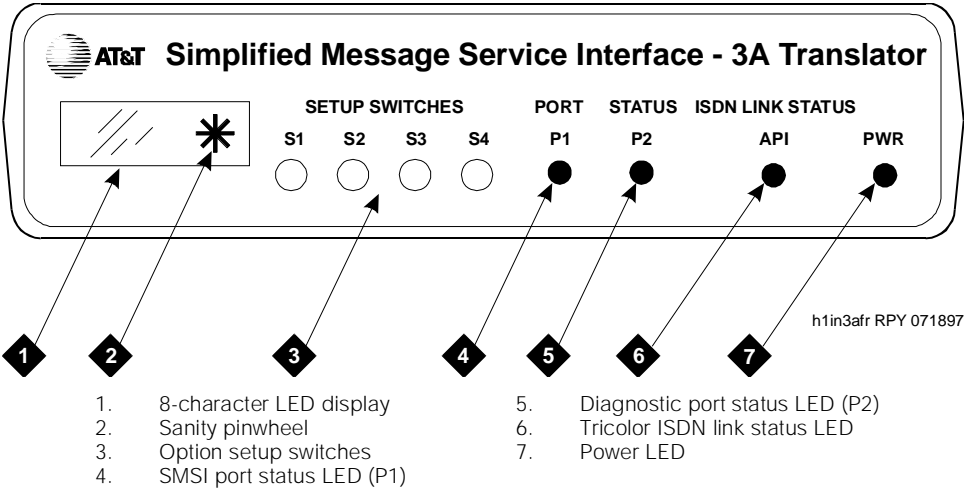


Figure 5-2. Closeup Front View of 3A SMSI Translator

### 3A Translator Setup Options

Sixteen options are available on the 3A translator ([Table 5-1](#)). Each option has a default setting. For most of the options, you do not need to change the default. Options you must set for the Lucent INTUITY™ system are shown in [Table 5-1](#) in **bold** type. Use [Table 5-1](#) to record your settings for these options.

**NOTE:**  
For a list of information needed to select the settings, see [Chapter 2, "Planning for Centrex Switch Integration"](#).

Table 5-1. Options on the 3A Translator (Required Options in Bold)

Option	Default Setting	Your Setting
SMSIBAUD	<b>1200</b>	1200
SMSIPRTY	even7dls	
DIAGBAUD	1200	
DIAGPRTY	even7dls	
LCEN	<b>00000000</b>	
BCID	<b>00000</b>	
TEI	01	



Table 5-1. Options on the 3A Translator (Required Options in Bold) — Continued

Option	Default Setting	Your Setting
DN SIZE	<b>7 digits</b>	7 or 10 digits
DIAGMODE	normal	
PRIVMODE	no block	
PRIVCHAR	space	
RUN MODE	smsi	
FLOWCNTL	<b>rts/cts</b>	
TIMRCNTL	1.0 sec	
LO-WATER	80 bufrs	
HI-WATER	+4	15

### 3A Translator Setup Switch Functions

To change the option settings on the 3A translator, use the setup switches (S1-S4) on the front of the translator ([Figure 5-2](#)). These switches toggle between program mode and change mode.

- To display each option and its setting, use the switches in program mode.
- To change the current setting and save the new setting, use the switches in change mode.

[Table 5-2](#) describes the function for each setup switch, depending on the mode (setup or change) being used.

Table 5-2. 3A Translator Setup Switch Functions

Setup Switch	Program Mode	Change Mode
S1	Displays the current option in the LED display. Continue to press to display each option.	Toggles to program mode while saving the current setting, and displays the current option in the LED display.
S2	Toggles to change mode.	Displays the current option setting in the LED display. Continue to press to display each possible setting for that option.
S3	Displays the first current option setting in the LED display. Continue to press to display each current setting.	For numeric settings, shifts the cursor one digit to the right.

Continued on next page



Table 5-2. 3A Translator Setup Switch Functions — Continued

Setup Switch	Program Mode	Change Mode
S4	Exits program mode, and completes the SMSI connection.	Toggles to program mode without saving the current setting, and displays the current option in the LED display.

## Programming the 3A Translator

Before programming the 3A translator, ensure that all hardware connections to it have been made. For information about hardware connections for Lucent 5ESS switch integration, see [Chapter 4, “Hardware Installation for 5ESS Switch Integration with the 3A Translator”](#).

Use this procedure to program the 3A translator.

1. Turn the power switch off and then on.  
When the power is on, the power LED lights green.
2. When the LED display window displays `ATP`, press S1 until the window displays `PROG MODE`.  
You are now in program mode.
3. Press S1 until the window displays `SMSI BAUD`.  
The default baud rate setting, 1200, is displayed.
4. Press S2 until window displays the baud rate being used.  
A baud rate of 1200 is recommended. The baud rate must correspond with the setting for the `Baud Rate` field on the Serial Interface window (see [“Setting the Serial Interface Parameters”](#) in [Chapter 9, “Lucent Intuity Administration for Centrex Switch Integration”](#) for information about this window).
5. When the window displays the setting you want, press S1.  
The new setting is saved, and the window displays the following:  

```
SAVED  
SMSI BAUD
```
6. Press S1 until the window displays `LCEN`, and then press S2.  
The window displays the default setting 00000000, with the first digit from the left flashing. You will change this setting, one digit at a time, to the value you obtained from the CO.



7. Press S2 until the flashing digit displays the value you want, and then press S3.

The setting is displayed with the next digit flashing.

8. Repeat Step 7 until each of the digits is correctly set, and then press S1.

The new setting is saved, and the window displays the following:

```
SAVED
LCEN
```

9. Press S1 until the window displays BCID, and then press S2.

The window displays the default setting 00000, with the first digit from the left flashing. You will change this setting, one digit at a time, to the value you obtained from the CO.

10. Press S2 until the flashing digit displays the value you want, and then press S3.

The setting is displayed with the next digit flashing.

11. Repeat [Step 10](#) until each of the digits is correctly set, and then press S1.

The new setting is saved, and window displays the following:

```
SAVED
BCID
```

12. If you are:

- Changing the option setting for DN SIZE, continue with [Step 13](#).
- Not changing the option setting for DN SIZE, skip to [Step 15](#).

#### **NOTE:**

To determine what setting to use for this option, you must know what version of the 5ESS switch you are using. Versions 5 or later use 10 digits; older versions use 7 digits. Obtain this information from the CO.

13. Press S1 until the window displays DN SIZE, and then press S2.

The window displays the default setting 7 digits.

14. Press S2 until the window displays 10 digits, and then press S1.

The new setting is saved, and the window displays the following:

```
SAVED
DN SIZE
```

15. Press S1 until the window displays FLOWCNTL, and then press S2.

The default setting rts/cts, is displayed.

16. Press S2 until the window displays xon/xoff, and then press S1.

The new setting is saved, and the window displays the following:



```
SAVED  
FLOWCNTL
```

17. Press S4.

The 3A translator is programmed, completing the SMSI connection. The window displays the following:

```
PROGMODE END  
SMSI
```

## **3A SMSI Translator Indicator Lights**

On the front panel of the 3A SMSI translator the right-most LED is the power (PWR) indicator and should always be illuminated green while the power switch is ON. (See [Figure 5-2](#) for an illustration of the front panel.) The ISDN LINK STATUS LED is located to the left of the power indicator. This tricolor LED uses the following colors to indicate the status of the data link:

- |        |   |
|--------|---|
| Red    | Indicates that the link has reached level 2, meaning that a hardware connection has been established between the 3A translator and the 5ESS switch. |
| Yellow | Indicates that the link has reached level 3 and the communication protocol has been established.  |
| Green  | Indicates that the 5ESS switch is in communication with the application firmware over the link.   |

In normal operation, the ISDN LINK STATUS LED should remain green at all times.

The two remaining LEDs to the left of the ISDN LINK STATUS LED report the status of the serial ports. The SMSI and DIAGNOSTIC port status LEDs are labeled P1 and P2, respectively. If P1 is illuminated (green), the port is able to communicate with the Lucent INTUITY system or modem. P2 is illuminated when a diagnostic terminal is attached.



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      3A SMSI Translator Indicator Lights

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