Installation Instructions
Field Feature Bill of Material (FFBM)
Install FC1660 (Remote Management Unit) in 3583 Model L18/L36/L72

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Installation Instructions

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Status:	Field Use

Note: This Field Feature Bill of Material (FFBM) must be installed only on the 3583 Model L18/L36/L72 for which it was shipped.

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Before Installation (Section 1 through 8)

1.0 Machines/Models Affected

This FFBM affects the 3583 Model L18/L36/L72 installing feature code 1660 (Remote Management Unit).

2.0 Prerequisite/Concurrent/Companion

Prerequisites

3583 library firmware must be at level 2.86.0001 (or higher), but below 4.99.001.

Note: The 3583 library firmware level must be below 4.99.001 until the Multi-Path feature has been installed. If you are installing the Multi-Path feature after completing this RMU installation you will be directed to upgrade the firmware at the appropriate time.

To determine the highest level available, visit the web at
`http://www.ibm.com/storage/lto`

- Select the **Technical Support** link and check against the firmware level on the library.
- Under **Downloads and Utilities**, select **IBM Ultrium Firmware**.

To check the library firmware level, from the library operator panel main menu, select **More→About**.

If the firmware update for the library is required, follow the "**Updating Firmware**" procedure in **Chapter 4** of the *3583 Ultrium Scalable Tape Library Setup and Operator Guide*.

3.0 Bills of Material to be Installed

PN	Quantity	Description
19P3463	1	Installation Instructions and Hardware

4.0 Preparation

- Read and understand the purpose and details of this installation instruction.
- Ensure that all items on the bill of materials have been received.

5.0 Program Updates

N/A

6.0 Purpose and Description

Provides the necessary hardware for adding an RMU/TotalStorage Specialist to 3583 Model L18/L36/L72.

The following hardware will be supplied:
- These installation instructions
- Remote Management Unit hardware module
- For 3583 Model L18/L36/L72
  - *3583 Ultrium Scalable Tape Library Maintenance Information*
  - *3583 Ultrium Scalable Tape Library Setup and Operator Guide*

– *3583 Ultrium Scalable Tape Library Quick Reference*

7.0 Installation Time

The following times are approximate.

Install Hours	Machine Hours	System Hours	Number of Persons
1.0	1.0	1.0	1

8.0 Special Tools and Materials Required

None

Installation (Sections 9, 10, 11 and 12)

9.0 Safety

None

10.0 Details of Installation

10.1 Install RMU in the 3583 Model L18/L36/L72

1. Ensure that the library is first varied offline.
2. Power off your library and disconnect the AC line cord from the AC source outlet.
3. Remove the RMU from the packaging.
4. From the rear of the library, locate the available RMU slot. Loosen the thumbscrew on the cover plate and remove the cover plate. Store the cover plate (see **1** in Figure 1) in a convenient place; it is required for proper operation and cooling of the library if you later remove the RMU.

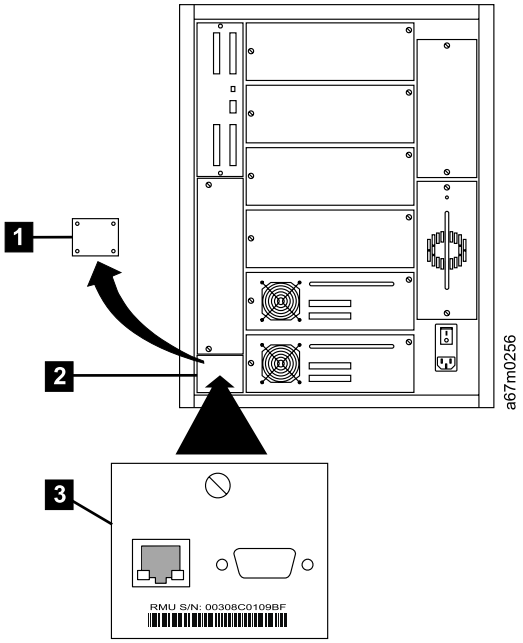

Figure 1. Cover plate removal and RMU installation

5. Slide the RMU (see **3** in Figure 1) into position **2** and tighten the thumbscrew.

10.2 Configure RMU in the 3583 Model L18/L36/L72

1. Before configuring the RMU, obtain the following required information.

   IP Address

   _____

   Subnet Address

   _____

   Gate Address

   _____

Name of IP attachment

_____

This information will be used to attach to the RMU via an Ethernet LAN or remote terminal.

Note: You may need input from the Network Administrator to answer these questions. When all the information is available, go to the next step.

2. Ensure that the library is powered on.
3. Press the following push buttons: **Main Menu (initial screen) Setup —> Library —> RMU**. The RMU dialog displays (see Figure 2).

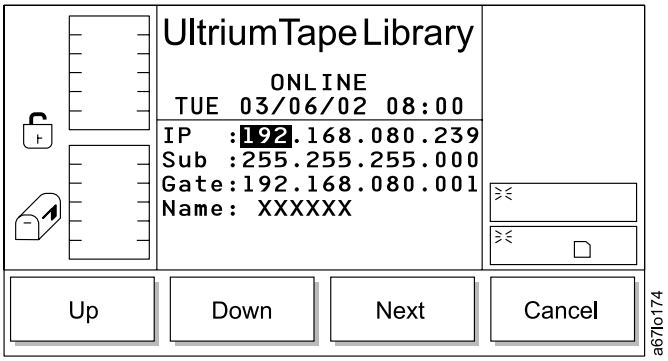

Figure 2. RMU Dialog

Note: If the RMU dialog does not display and the operator panel displays the message `Could not establish communication with the RMU board` a problem exists with the RMU connection. Disconnect the RMU from the library by loosening its thumbscrews and pulling it out approximately 7 cm (3 in.). Wait 5 seconds, then reconnect the RMU (you do not have to power-off the library). Return to step 3 and restart the procedure.

4. Use the push buttons below the **Up** or **Down** softkeys to enter the IP address, subnet address, gateway, and name, similar to the example values shown in Figure 2. Press the button below the **Next** softkey to accept the current field and advance to the next field. If the next field is DHCP (dynamic host configuration protocol) see Figure 3.

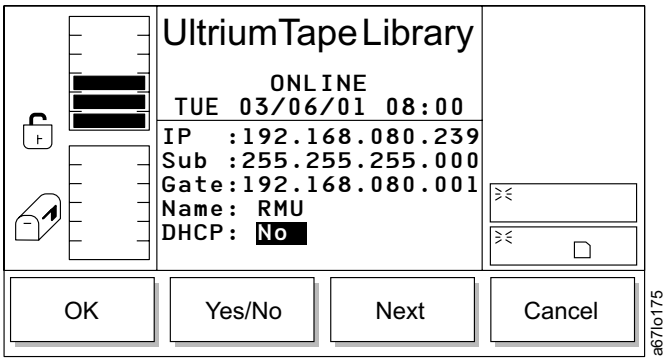

Figure 3. DHCP Dialog

5. Press the button below the **Yes/No** softkey to toggle the DHCP on or off. If you set DHCP on by selecting Yes, the software will dynamically update the IP

address of the RMU if a new device is added to the network. If you set DHCP off by selecting No, the IP address of the RMU can only be changed manually.

6. After you have set the value for each field, press the button below the **OK** softkey to accept the settings and return to the Library menu.
7. Attach an Ethernet cable (**2** in Figure 4 on page 7) with RJ-45 connectors to the RMU **3** and an Ethernet hub **4** that is attached to a computer **5** .

   Note: You can also attach a computer, without using an Ethernet hub, directly to the RMU by using a crossover cable (not shown).

When you configure the Ultrium Tape Library to a network the media access control address (*MAC ID*) that appears on the RMU (see **1** in Figure 4) must match the MAC Address that displays on the Library Status screen of the TotalStorage Specialist (see Figure 5 on page 8). The MAC ID is the RMU's serial number. It appears on the RMU as `RMU S/N: xxxxxxxxxx` (where `xxxxxxxxxx` equals the serial number); the same number must appear on the Library Status screen of the TotalStorage Specialist, although colons typically separate the characters.

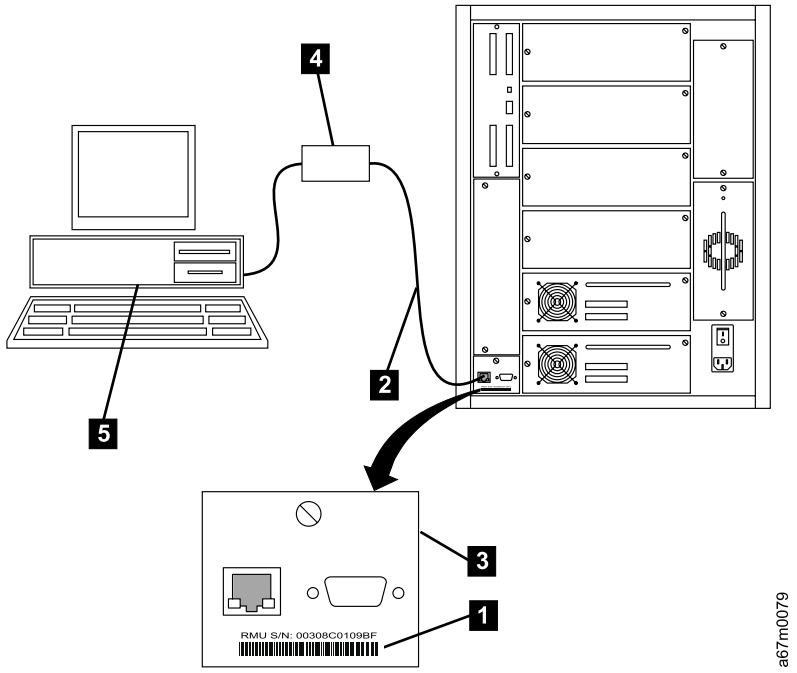

Figure 4. Connecting the RMU to a computer

11.0 Test Procedures

__ 1. On the terminal of your server, use a web browser to type the IP address or the hostname of the RMU. The TotalStorage Specialist Status page displays (see Figure 5 on page 8).

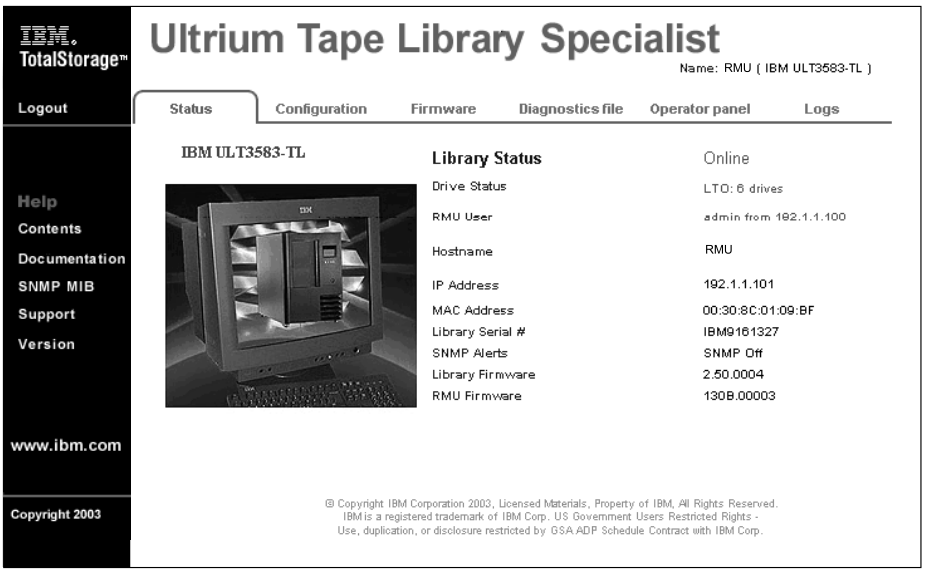

Figure 5. Status page

__ 2. The RMU is now available for use.

12.0 Field Updating

N/A

After Installation (Sections 13 through 15)

13.0 Publications Update

N/A

14.0 Parts Disposition

__ 1. Any removed parts that are not designated for reinstallation, shall be considered the property of the customer.

15.0 Machine Records

N/A