TOTAL CONTROL™

Total Control Manager/SNMP for Windows

Version 4.1

RELEASE NOTES

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What's New in this Release

Total Control Manager/SNMP Release 4.1 supports the following new features:

- **New Chassis-Wide Software Download**
  An enhancement to the Total Control Manager software now allows users to perform multiple software downloads to all card types by launching a single window.
- **New Auto Response Events**
  Two new events have been added to the Auto Response feature. These events are registered on a channel level and are reported when the appropriate traps are enabled.
- **New Modem Disconnect and Connect Fail Reasons**
  Three new modem disconnect and connect fail reasons will be reported by the modem.
- **VN4 Switch Support**
  A new option, priSwVn4, is now available for the Primary Switch Type Set parameter in the PRI Cards' (E1 and T1) PRI Trunk Settings configuration group. This new option allows you to set the primary switch type for the PRI ISDN NAC. The setting takes effect after the card has been reset.
- **New NMC Commands**
  Two new commands were added for the NMC. You may now restore NMC settings from the factory default or from the settings saved in the NMC's NVRAM. These commands allow you to load the NMC configuration independent of the chassis configuration.
- **Additional Configurable Parameters**
  Six new NMC, six new Modem, and six new T1 parameters were added to provide more configurable functionality.
- **Accounting Enhancements**
  Where previously there was only an option to enable / disable a trap, many traps now include options so you may specify enable / disable for both trap and log record generation.
- **Additional Information in the Inventory Feature**
  Additional information (Installed RAM / FLASH and DIP Switch Settings) is now reported when the Inventory feature is invoked.

For More Information

This Release Notes document is intended to point out new features, as well as revisions and enhancements to existing features. This document should be used in conjunction with the manuals in the Total Control Reference Library. The manuals in the library are updated for major releases only (version 2.0, version 3.0, etc.). Interim releases are documented solely by Release Notes. If you would like to obtain the manuals in the Total Control Reference Library, contact a U.S. Robotics sales representative, or download them in Adobe Portable Data Format from the U.S. Robotics BBS.

The information listed below is available in the Total Control directory (#15) on the U.S. Robotics BBS (847-982-5092) and Internet ftp site (ftp.usr.com / dl15). You may use anonymous ftp to download the files. All the files are available in Adobe Acrobat Portable Data Format (*.PDF).

- Regularly updated MIBs
  This information is provided in ASCII text (*.MIB).
- Application Notes
- Technical Bulletins
- Reference Manuals
- Release Notes

A Note about PDF Files

Files in Adobe Acrobat *.PDF format may be easily downloaded. You will, however, need the Acrobat Reader program to view the Acrobat files. Adobe provides free Reader software (DOS, Windows, Macintosh, and UNIX versions are available) at both an Internet ftp site (under the directory ftp.adobe.com / pub / adobe / Applications / Acrobat) and their World Wide Web Home Page (http: / / www.adobe.com /).

U.S. Robotics also provides Acrobat Reader software on its BBS in the MISC directory. Simply download the Reader software and install it on the computer, launch the program, and open the *.PDF document file.

Chassis-Wide Software Download

An enhancement to the *Total Control Manager* software now allows users to perform multiple software downloads to all card types by launching a single window.

1. To perform software download from within the *Total Control Manager* software, first launch the application and establish a connection with a chassis.
2. From the Device Display on the *TCM* console window, select the card(s) to which you want to perform the download.

   NOTE: Once you have entered the Software Download window, you will have the option of selecting or deselecting cards according to their slot number.
3. Select the **Software Download** option from the Configure Menu (see Figure 1), **OR**

   Click on the Software Download icon (shown right) from the Toolbar. The Software Download window then appears (see Figure 2).

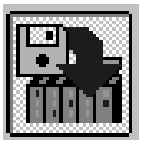

Figure 1. *TCM* Configure Menu's Software Download Option

This window contains five columns:

- The **Selection** column: Allows you to select multiple cards of various types on which to perform downloads. A check mark will appear for every selected card. If you selected a card on the Device Display, the card will have a have checkmark in this column when the window is opened.
- The **Slot** column: Lists the slots of the chassis by number as well as the NACs (Network Application Cards) that occupy them.

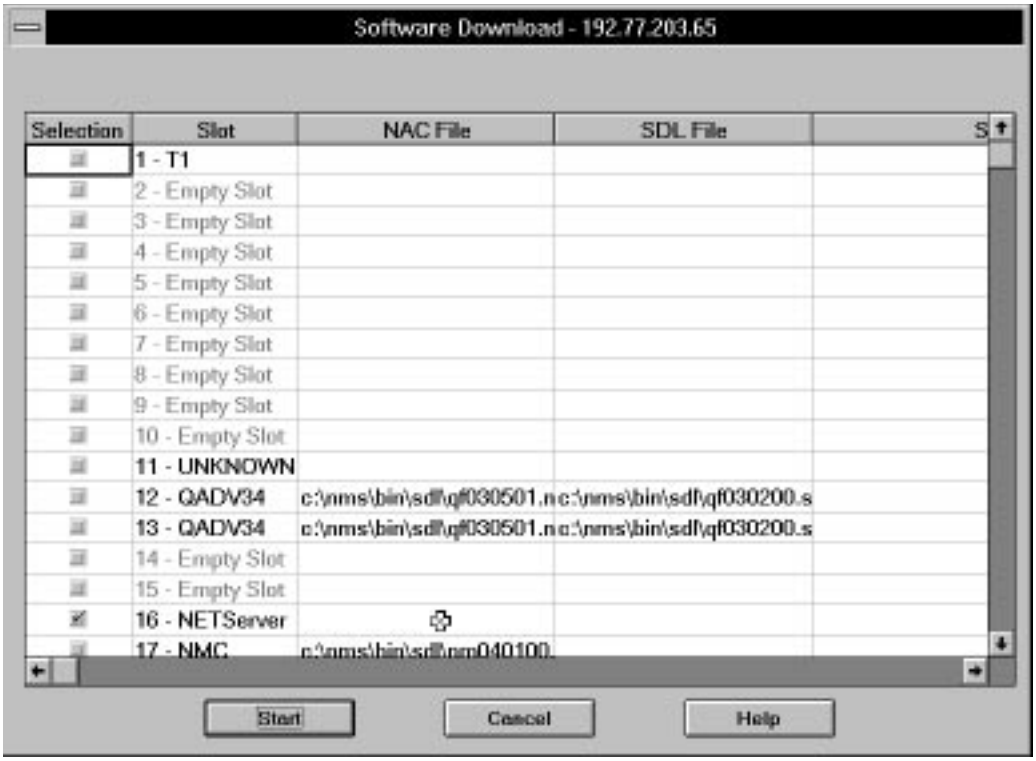

Figure 2. *TCM's* Software Download Window

- The **NAC File** column: Lists the most current .NAC file version in the \NMS\BIN\SDL directory. If this version is a more recent version of software than is on the NAC itself, it will be shown in red.
- The **SDL File** column: Lists the most current .SDL utility file version in the \NMS\BIN\SDL directory. If this version is a more recent version of software than was previously used, it will be shown in red.
- The **Status** column: Lists the status of each software download task on a card-by-card basis. Such messages as "In Progress" or "Complete" will appear in this column as the download progresses.

If you have loaded or moved the .NAC and/or .SDL files to a directory other than \NMS\BIN\SDL, you can access them by positioning the cursor in the **NAC File** and **SDL File** columns in the same row as the card you wish to perform a download to, then double-clicking the left mouse button. The Open window shown in Figure 3 will appear. This window will allow you to select the directory where your files are, as well as the files you wish to download to this card.

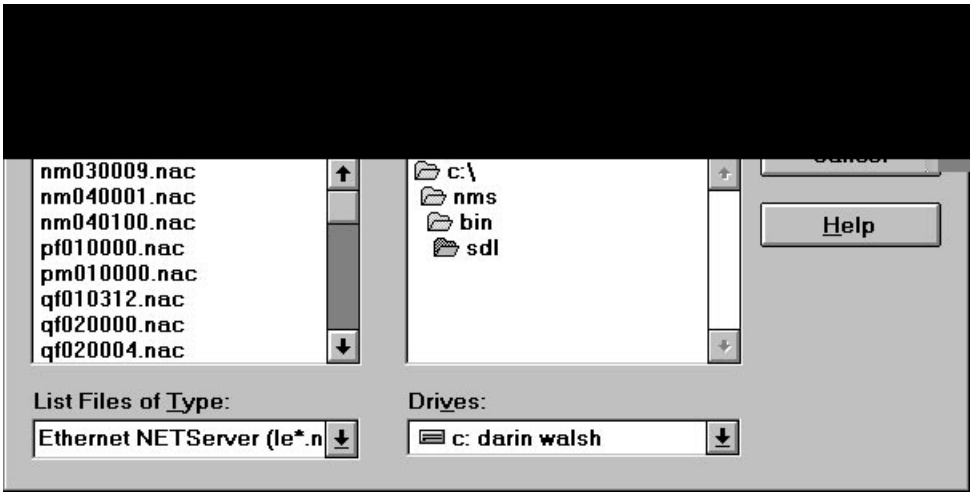

Figure 3. Software Download Open Window

4. Click **START** to begin the download.

   NOTE: If you receive a Device Not Responding error message while trying to perform a software download, the cause may be too much other management traffic to the chassis. Reduce other operations (including multiple Management Station access) and try the operation again.

During the download, progress messages are displayed in the upper left corner of the Software Download window. A **Success** message indicates that the operation is complete.

NOTE: If you selected more than one card to download to and wish to cancel the operation while it is in progress, you can click on the **STOP** button in the bottom left side of the window. The SDL operation already in progress cannot be stopped, but the remaining operations will be canceled and the corresponding check marks will be removed.

New Auto Response Events

Two new events have been added to the Auto Response feature. These events are registered on a modem channel level and are reported when the appropriate traps are enabled. Refer to the *NMC 4.1 Release Notes* for descriptions of these events.

- Packet Bus Active
- Packet Bus Lost

New Modem Disconnect and Connect Fail Reasons

The following modem disconnect and connect fail reasons will be reported by the modem:

- MNP Unpacked LMIs
- Remote Digital Loopback Timer Expired
- T1 Glare

New NMC Commands

Two new commands were added to the NMC. You may now restore NMC settings from the factory default or from the settings saved in the NMC's NVRAM by selecting the card from the Device Display on the *TCM* Console window, selecting Actions / Commands from the Configure menu on the *TCM* Menu bar, and invoking the appropriate command from the Commands window.

- Restore NMC from Default
- Restore NMC from NVRAM

VN4 Switch Support

A new option, priSwVn4, is now available for the Primary Switch Type Set parameter in the PRI Cards' (E1 and T1) PRI Trunk Settings configuration group.This sets the primary switch type for the PRI ISDN NAC. The setting takes effect after the card has been reset.

Additional Configurable Parameters

The following section provides a list of the new parameters available in the 4.1 release. These parameters are configurable via management (using *Total Control Manager/SNMP* or from a MIB browser). For detailed descriptions of each parameter, refer to the *NMC 4.1 Release Notes* or use the context sensitive help in *TCM*.

New NMC Parameters

Programmed Settings

Card-Level

NMC Identification Parameter Group

Packet Bus Clocking Source

Hub Security Parameter Group

Security Server Unavailable

Faults

Card-Level

Hub Security Traps Group

Security Server Lost

Packet Bus Traps Group

Single Packet Bus Clock Fail
Packet Bus Clock Switch
Packet Bus Clock Fail

New Modem Parameters

Programmed Settings

Channel-Level

Signal Converter Settings Parameter Group

V.42 Selective Reject

Call Control Options Parameter Group

T1 Idle / Disconnect Pattern

Originate MNP10

Originate MNP10EC

ATZ Handling over Packet Bus

DTE Interface Settings Parameter Group

DTR Recognition Time

New T1 Parameters

Programmed Settings

Card-Level

Dual T1 Programmed Settings Parameter Group

T1 Presence in Chassis

T1 Idle Disconnect Pattern

Faults

Span-Level

Trap Enables Group

Trap On Yellow Alarm Cleared

Trap On Red Alarm Cleared

Trap On Loss of Signal Cleared

Trap On AIS Cleared

Accounting Enhancements

Where previously there was only an option to enable / disable a trap, many traps now include options so that you may specify enable / disable for both trap and log record generation. These additional options have been extended to many T1, T1 / PRI, E1 / PRI, X.25, NETServer, and Packet Bus traps in the 4.1 management release.

NOTE: Use discretion when configuring Traps with the *enableAll* setting. If too much information is sent, the server PC may be overloaded. When you enable a trap *and* a log, information is sent twice from the NMC.

New Inventory Information

Additional information (Installed DRAM, FLASH, and DIP Switch Settings) is now reported when the Inventory feature is invoked.

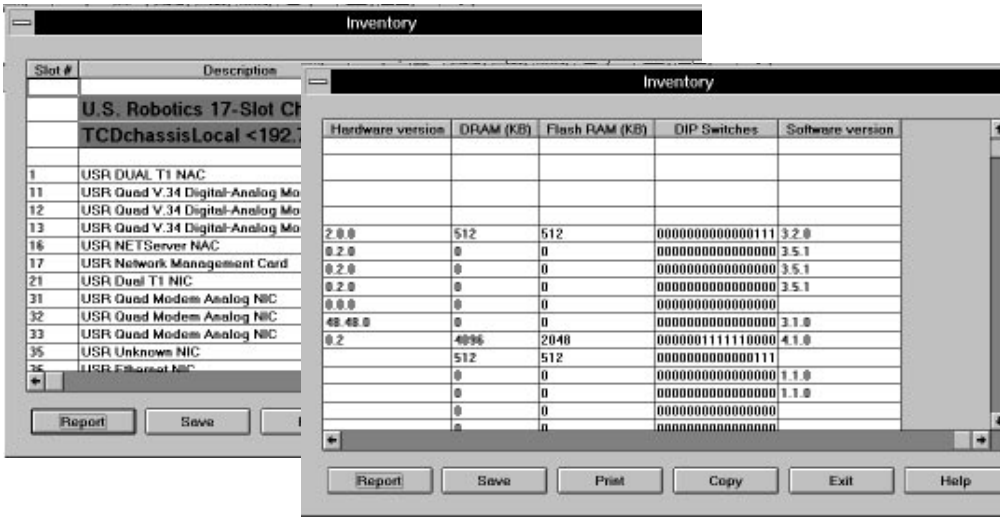

Figure 4. Additional Inventory Columns