

SPMA Version 3.2rev1 Release Notes (October 1998)

The SPECTRUM Portable Management Application (SPMA) Release Notes describe SPMA enhancements, changes, and known anomalies. Please read through this document before you install the SPMA software.

Important Changes in SPMA Version 3.2rev1

SPMA modules are now bundled as a single product

Beginning with this release, SPMA is no longer sold in pieces — one price buys you management for all the devices SPMA supports. You will no longer need a license number or an extraction key; you simply choose the management modules you need during the installation process. See your *Installing and Using...* guide for details.

Documentation is no longer shipped on a separate CD

In fact, we've integrated the electronic documents much more closely with the programs themselves. Document files are installed for you automatically, based on the management modules you select; also installed for you is the version of Adobe's Acrobat Reader appropriate to your operating system. You can launch the documentation via the **Guide** menu or button which appears in many views, or you can open any of the documents independent of SPMA via the Acrobat Reader. Again, see your *Installing and Using...* guide for details.

Some upcoming changes to note:

SPMA release version 3.2rev1 will be the last release to support AIX version 4.2; the next release will require version 4.3. This release will also be the last to support the SunNet Manager platform. For more information about these planned changes, contact the Global Call Center.

New Features in SPMA 3.2rev1

SPMA now supports the following network management platforms:

- Solstice Enterprise Manager version 2.0
- HP OpenView Network Node Manager UNIX version 4.1/5.0
- IBM NetView AIX version 4.1
- SunNet Manager version 2.3

Note that these are the tested and certified versions of the supported network management platforms, but the versions listed here do not specifically exclude any later versions, which may also perform successfully. Contact the Global Call Center for more information.

Support has been added for the following new devices:

- SmartStack ELS100-16
- SmartSwitch 2000 Series
 - 2E253-49R
 - 2H23-50R
 - 2H33-37R
 - 2H252-25
 - 2H252-25R
 - 2H253-25R
 - 2H258-17R
- SmartSwitch 6000 Series
 - 6E233-49
 - 6H123-50
 - 6H133-37
 - 6H202-24
 - 6H203-24
 - 6H252-17
 - 6H253-13
 - 6H258-17
 - 6H259-17
- SmartSwitch 9000 Series
 - 9A656-04

Limited support is also provided for

the FRX4000, FRX6000, and SmartSwitch 1800; the 9A600-04 and 9A686-04 SmartSwitch 9000 modules; the CSX 200 series (201, 202, 203) and the CSX 400; and for 802.1Q VLAN functionality on the SmartSwitch 2000 and SmartSwitch 6000 products. Note that this support has received beta testing only.

Tested Firmware Versions

SPMA 3.2rev1 applications have been tested against the following firmware versions; pre-release versions are listed in **boldface** type:

Cabletron Device / Service	Firmware Versions*
Cabletron SPMA SmartSwitch 2000	
2E42-27	2.01.05
2E42-27R	2.01.05
2E43-27	2.01.05
2E43-27R	2.01.05
2E43-51	4.00.08
2H33-37R	4.05.08
2H252-25R	1.03.09
2M26-04	3.03.10
Cabletron SPMA 3X00 ATX	3.03.10
Cabletron SPMA SmartSwitch 6000	
6E122-26	2.01.05
6E123-26	2.01.05
6E123-50	4.00.08
6E132-25	2.01.05
6E133-25	2.01.05
6E133-49	4.00.08
6E233-49	1.03.09
6H122-08	2.01.07
6H123-50	4.05.08
6H133-37	4.05.08
6H202-24	1.03.09
6M146-04	3.03.10
Cabletron SPMA SmartSwitch 7000	
7X00 Controller	1.04.05
7A06-01 (ATM NIM)	1.05.09
Cabletron SPMA SmartSwitch 9000	
9A000	4.1.0_1.76
9A128-01	2.10.13
9A221-01	1.01.04
9A426-0x	1.00.11
9A600-04	cdp72
9A656-04	2.01.07
9E106-06	2.10.03
9E13x-xx	2.06.03
9E423-xx	1.08.05
9E428-xx	1.04.11
9E429-xx	1.04.11
9F116-01	2.00.03
9F12x-xx	2.00.01
9F206-01	10.3(7)

Cabletron Device / Service	Firmware Versions*
Cabletron SPMA SmartSwitch 9000 (<i>cont'd</i>)	
9F241-12	2.00.01
9F426-0x	1.07.06
9G426-02	1.08.03
9H421-12	1.08.05
9H422-12	1.08.05
9H423-28	1.05.04
9H429-12	1.08.05
9M426-02	1.00.02
9T101-04	10.02.45
9T122-08	1.06.10
9T122-24	1.06.10
9T125-08	1.02.07
9T125-24	1.02.07
9T201-04	10.3(7)
9T425-16	1.08.06
9W111-08	10.02.45
9W211-08	10.3(7)
Cabletron SPMA 8H02-16	1.02.03
Cabletron SPMA CSX 200 Series	1.02.08
Cabletron SPMA CSX 400	2.00.11
Cabletron SPMA ELS10-26	1.00.01
Cabletron SPMA ELS100-16	00.01.01
Cabletron SPMA EMME	3.07.03
Cabletron SPMA EMM-E6	3.22.01
Cabletron SPMA ESXMIM	2.30.03
Cabletron SPMA ESXMIM 1320/1380	2.30.03
Cabletron SPMA ETWMIM	1.30.05
Cabletron SPMA FDMIM	4.07.06
Cabletron SPMA FN 10	2.00.02
Cabletron SPMA FN 100	1.0
Cabletron SPMA FRX 4000	4.0, 4.01
Cabletron SPMA FRX 6000	4.0, 4.01
Cabletron SPMA IRM	1.04.01
Cabletron SPMA IRM2	2.07.05
Cabletron SPMA IRM3	1.07.02
Cabletron SPMA IRBM	1.03.09
Cabletron SPMA MicroMMAC	1.31.04
Cabletron SPMA MicroMMAC-T	3.00.09
Cabletron SPMA MiniMMAC	2.03.04
Cabletron SPMA MRXI1 / 2	2.03.02
Cabletron SPMA MRXI22 / 24	1.11.09

Cabletron Device / Service	Firmware Versions*
Cabletron SPMA NB20E / 25E	1.06.05
Cabletron SPMA NBR Family	2.20.08
Cabletron SPMA SEHI	1.10.04
Cabletron SPMA SEHI-100TX	1.00.06
Cabletron SPMA SmartMIM-216	1.00.03
Cabletron SPMA SmartSwitch 1800	4.0, 4.01
Cabletron SPMA STHI	1.01.01
Cabletron SPMA TRBMIM	2.03.01
Cabletron SPMA TRMM	3.01.01
Cabletron SPMA TRMM-2	1.03.01
Cabletron SPMA TRMM-4	1.03.01
Cabletron SPMA TRMMIM	3.01.01
Cabletron SPMA TRXI	2.00.06

*Firmware versions displayed in **boldface** are pre-release versions; contact Cabletron Systems' Global Call Center for customer release version information.

SPMA applications will work successfully against many firmware versions older and newer than those listed. However, if you are using an older version of firmware and begin to experience problems, you may want to upgrade; if you are using a newer version, note that not all functionality present in the firmware may currently be supported by SPMA. Contact Cabletron Systems' Global Call Center for more information.

Known Anomalies

Installation

When installing SPMA for Solstice Enterprise Manager,

the final step in the integration process re-initializes Solstice Enterprise Manager by running the `em_services -r` command. Occasionally, this process will fail, and you will be unable to restart or re-connect to Solstice Enterprise Manager. If this occurs, run the `em_services -r` process from the command line.

General

For some devices which support four-digit year values

(in accordance with Year 2000 Compliance requirements), day values in the ranges 4-9, 14-19, and 24-29 cannot be set. This is due to a firmware anomaly.

When SPMA is run under the Solaris Common Desktop Environment, some of the child windows of SPMA applications may be created too small in size to display all of their information. Use the window handles to resize as necessary.

For all Hub View applications, when the application has been running for more than 24 hours, the following warning may appear in response to user interaction:

xlib: unexpected async reply (sequence <hex number>)!

Mouse events may be ignored while these errors appear. Usually, this problem clears itself and the application runs normally thereafter; however, SmartSwitch 9000 Hub Views may occasionally quit (but can easily be re-started). This problem occurs most frequently on HP-UX.

Switching desktop views after or while running the Module Launcher application may cause its child windows to appear without warning on the second desktop. Remaining in a single desktop view will avoid this problem.

RMON

If you launch the Basic Alarm application

(available from the icon menu, the command line, or the Hub View for any RMON-capable device) with a read-only community string, the application will hang if you attempt to set any alarm variables. As a workaround, be sure to launch this application with at least Read/Write permissions if you intend to make any changes.

The Basic Alarm application will only display and allow you to edit alarm entries created by SPMA. Other alarm entries present on a device will not be displayed if they were created by another source.

If you launch the Advanced Alarm application

against a device which does not respond, against an IP address that has not been assigned to a device, or with an invalid community name, the application will not launch and the process will hang. If this occurs, you will need to kill the process from the command line; on HP-UX, you may need to kill it twice.

The TRMM, TRMM-2, TRXI, and TRMMIM

do not support source routing; however, this option will appear as available in the RMON Token Ring application.

On HP-UX only, attempting to print any RMON data from the Token Ring application may result in error windows displaying messages related to floating point exceptions. This occurs most frequently when print settings are changed (via Print Setup) just prior to printing.

On Solaris only, the View button in the RMON Token Ring window

occasionally overlaps the selection button to its left. This is a display issue only; the selection button functions properly, and all tables are available for viewing.

RMON Graphs generated from the RMON History window have sliders

which do not line up with the data in the graph. In other words, the slider will be in the middle of the window even when you are viewing the right edge of the data displayed. Continuing to move the slider to the right will not have any effect on the data in your graph.

Bridge View

The software database that stores the forwarding thresholds

set in the Transparent Forwarding Thresholds bridge window may have difficulty maintaining unique database keys if your device's IP address is the maximum length (e.g., 117.199.201.123) and the device contains more than 99 ports. Under these circumstances, the keys generated for ports 100 and following will conflict with the keys generated for port 10 and following. This condition produces no error messages, but may result in some irregularity in your configured thresholds — specifically, thresholds set for ports 100 and above are not persistent and may not function as desired.

For the FN100 and ELS10 devices, under some conditions

you can launch the Forwarding Statistics window from the Bridge Port menu, even though the menu option is grayed out and the feature is not supported. This does not effect functionality other than to launch an empty window.

For the CSX400, Port 2 is incorrectly labeled in the Bridge View window

as an FNB interface. This is due to a firmware anomaly, and is a labeling issue only; functionality is unaffected.

Performing many window manipulations (opening, iconizing, restoring, closing, re-opening, etc.) in close succession on the child windows of a single parent may occasionally cause the parent window to hang.

FRX4000, FRX6000, and SmartSwitch 1800

For devices which contain a Token Ring LAN card,

selecting the Speed port display form will always display a value of 0 for the token ring interface. This is due to a firmware anomaly.

Configuring Frame Relay ports from the Frame Relay Configuration

window will result in a general SNMP error condition. This is due to an anomaly in firmware version 4.0 which has been fixed in version 4.01. As a workaround, use the console management software to configure your Frame Relay ports.

IP Routes cannot be created or modified via the SPMA MIB II application.

This is due to a firmware anomaly.

The IP Interface Configuration window

behaves erratically when IP interfaces are added, modified, or deleted. The erratic behavior is due to a mix of firmware and software anomalies. As a workaround, perform IP interface configuration via console management.

After an SDLC port has been created, the SDLC Configuration window

does not display the values returned from the device. This is due to a software anomaly.

The new FRX-based modules for the SmartSwitch 9000

(the 9W410 and 9W440) are neither recognized nor supported by this release of SPMA. Note that the SPMA documentation for the FRX applications states that the software should function when run against these new modules.

SmartSwitch Devices

SmartMIM-216

The Bridge View application provides a menu option for the

Smart Trunking feature; this feature is not supported in firmware version 1.00.03 (the version tested for this release of SPMA), but will be added to the next firmware release. If you launch this application against a device which does not support it, the window will simply remain blank.

SmartSwitch 2000 Series

Due to a firmware anomaly, the 2E43-51 and 2E43-51R modules

always return values of 0 for any framesize statistics.

Also due to a firmware anomaly, the Port Redirect function may

operate inconsistently on some devices. Occasionally, the MIB tables related to this functionality are not instanced correctly in the firmware; when this occurs, the objects cannot be read by the software, and the Port Redirect window will display with all fields grayed out. Due to a similar anomaly, Port Redirect will not be available at all on the 2E43-27 module.

Due to a firmware anomaly present on versions 1.01.10 and 1.03.09,

the 2H252-25, 2H252-25R, and 2E253-49R do not have a Bridge Application Display option in the Hub View. The Bridge Management application, however, is available (from the Module Launcher, the icon menu, or the command line), and all bridging functions operate correctly.

On some firmware versions, no MIB support is provided for SmartTrunking.

For those devices, selecting the SmartTrunking option from the Bridge View will simply launch an empty window. Note that these devices do still support the SmartTrunking feature; however, it must be configured and managed via Local Management.

Due to a software anomaly, the Find MAC Address application

does not function correctly for the 2E43-51 MicroLAN module.

Under some circumstances, multiple changes to the repeater configuration

on a 2H23-50R or 2H33-37R may not be detected by the software. If you make repeater changes that are not reflected in the Hub or Chassis View, simply close and re-start the appropriate application.

SPMA does not support repeater functionality on a 2H23-50 or 2H33-37

running any firmware version prior to 4.05.08. Running the repeater-based applications against any earlier firmware versions will result in a number of software errors, and will not provide reliable information or configuration capability.

SmartSwitch 6000 Series

Due to a firmware anomaly, selecting the Meters option

from any window in the MIB II application for a 6E233-49 will result in multiple error messages indicating that counters have wrapped. These messages will continue to appear until the meter window is closed; there is no workaround.

Due to a firmware anomaly, the 6E123-50 and 6E133-49 modules

always return values of 0 for any framesize statistics.

Due to a firmware anomaly present on versions 1.01.10 and 1.03.09,

the 6H202-24, 6H252-17, and 6E233-49 do not have a Bridge Application Display option in the Hub View. The Bridge Management application, however, is available (from the Module Launcher, the icon menu, or the command line), and all bridging functions operate correctly.

On some firmware versions, no MIB support is provided for SmartTrunking.

For those devices, selecting the SmartTrunking option from the Bridge View will simply launch an empty window. Note that these devices do still support the SmartTrunking feature; however, it must be configured and managed via Local Management.

Due to a software anomaly, if you hot-swap a board in a SmartSwitch 6000

chassis and move the board to a different slot, that change is not detected by the Chassis View. As a workaround, simply close then re-launch the chassis view application for an updated display.

Under some circumstances, multiple changes to the repeater configuration on a 6H123-50 or 6H133-37 may not be detected by the software. If you make repeater changes that are not reflected in the Hub or Chassis View, simply close and re-start the appropriate application.

SPMA does not support repeater functionality on a 6H123-50 or 6H133-37 running any firmware version prior to 4.05.08. Running the repeater-based applications against any earlier firmware versions will result in a number of software errors, and will not provide reliable information or configuration capability.

In some application windows, the 6H133-37 incorrectly identifies itself as a 6H133-49. This is due to a firmware anomaly; to confirm the device type, check the *sysDescr* value, which displays the correct information.

A SmartSwitch 6000 chassis running in distributed mode cannot accept a TFTP download unless each module is assigned its own IP address and the image is downloaded to each board individually. This is due to a firmware anomaly.

SmartSwitch 7000 Series

If more than one FDDI NIM is installed in the SmartSwitch chassis, or if any one of the FDDI applications is launched from the command line, port mapping will not occur — that is, FDDI ports will be identified only by SMT index (1, 2, 3, 4, etc.) and physical port index (1 and 2 for each SMT), rather than by front panel index (FP 1 and FP2) and port type (A and B).

FN100

The bridge application won't successfully launch against an FN100 with more than one virtual switch configured. This is due to a firmware anomaly.

SmartSwitch 9000 Devices

When iconized, the Module Views for all SmartSwitch 9000 devices are identified only with the label "SmartSwitch."

9A600-04

Due to a firmware anomaly, some fields in the ATM Port Status window will display question marks (?????) instead of the appropriate MIB value.

9A656-04

In the SmartSwitch 9000 Chassis Backplane view,

selecting the Full Duplex Mode port display form for a 9A656-04 will display a value of "Stand," or standard. This is due to a firmware anomaly; in fact, 9A656 ports are always operating in full duplex mode by design.

In the MIB I, II application, the menu options for the IP Routing, AT Table and IP Net to Media table are not grayed out, although these tables are not supported by the 9A656-04. Selecting any of these options simply launches a blank window.

Due to a firmware anomaly, some fields in the ATM Port Status window will display question marks (?????) instead of the appropriate MIB value.

Due to a software anomaly, the MIB II statistics Port Display Form is not available for the backplane interfaces.

9M426-02

Due to a firmware anomaly, broadcast suppression thresholds

can only be set in increments of 10. Any other value will be rounded down to the nearest multiple of 10 (so, a threshold value of 19 would be rounded down to 10; a threshold value of 119 would be rounded down to 110, etc.).

Also due to a firmware anomaly, the necessary FDDI MIB component is not instantiated correctly when an FDDI HSIM module is installed. For this reason, no FDDI applications will be available from the Module Launcher.

The Module View for this device appears to allow you to set the SMB10 interface to Standard or Full Duplex mode. This is due to a firmware anomaly, and is a display issue only; the mode is not configurable for the SMB10 management bus.

