

CUSTOMER RELEASE NOTES

***ELS 100-24TX and ELS100-24TXM
Firmware Version 1.00.02
November 01, 1998***

INTRODUCTION:

The SmartSTACK Fast Ethernet Switch (ELS100-24 TX) provides 24 10/100 Mbps RJ45 ports or 24 10/100 Mbps RJ45 ports and 2 fiber SC ports via a plug-in module (TXM).

It is recommended that one thoroughly review this release note prior to the installation or upgrade of this product.

FIRMWARE SPECIFICATION:

Status	Version No.	Type	Release Date
Previous Version	1.00.01	Customer	09/01/98
Current Version	1.00.02	Customer	11/01/98

HARDWARE COMPATIBILITY:

ALL

BOOTPROM COMPATIBILITY:

ALL

NETWORK MANAGEMENT SOFTWARE SUPPORT:

NMS Platform	Version No.	Module No
SPECTRUM	Post 5.0	Rev 0
SPMA (Spectrum Portable Management Application)	Post 3.2	Rev 0
SPEL (Spectrum Element Manager)	Post 2.1	N/A

If you install this image, you may not have control of all of the latest features of this product until the next version(s) of network management software. Please review the software release notes for your specific network management platform for details.

SUPPORTED FUNCTIONALITY:

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Features	Support
802.1P - Traffic Management/ Dynamic Multicast Filtering	X
802.1Q – VLAN tagging and identification	X
Auto Negotiation	X
Broadcast Suppression	X
Local Management via TELNET	X
Modem Support	X
Port Mirroring	X
RMON	X
SNMP (802.1D)	X
Virtual Networking – VLANs	X
Web View	X

INSTALLATION AND CONFIGURATION NOTES:

In general, the ELS100-24TX and ELS100-24XM will be shipped to you pre-configured with this version of firmware. If you would like to upgrade an existing ELS100-24TX, please follow the TFTP download instructions that are included with your firmware image upgrade kit. TFTP download instructions are also available on the Cabletron Support web site at:
<http://www.cabletron.com/support/techtips/tk0208-9.html>.

FIRMWARE CHANGES AND ENHANCEMENTS:

- This software release is being made along with the release of boot code version 1.02. The new 1.02 boot release is backward compatible with older software releases. The 1.01 boot release is forward compatible with the 1.00.02 software release. The main change in the 1.02 boot release is a reduction in the time it takes to run self diagnostics.
- The length of time required to run self diagnostics on the switch, executed after a power cycle or reset, was reduced by nearly 50%, resulting in a much faster boot up time for the switch to reach operational status with 1.02 Boot Release.
- A range of ports can now be configured in the VLAN Port Menu instead of allowing only one to be configured at a time.
- Learning the same address on the switch before and after VLANs were disabled caused a duplicate address entry to be placed in the forwarding table. – This has been fixed.
- On the ELS100-24TXM - the installation of a 100Base-FX module did not change the value of ifDescr to indicate that ports 1 and 2 were 100Base-FX ports instead of 100Base-T. – This has been fixed.
- The port cost for a port was not being set correctly if the port had auto-negotiation enabled. – This has been fixed.
- Forwarding to static addresses flooded the switch if VLANs were enabled after the static address was configured. – This has been fixed. If the address was entered after VLANs were enabled, the problem did not occur.
- When the dot1dTpFdbAddress MIB table was accessed via SNMP, the maximum number of address displayed was 88 even though more were in the table. – This has been fixed.
- A management station needed to be in the default VLAN (VLAN ID #1) to access the switch remotely via SNMP or Telnet when VLANs were enabled. In other words, the station would lose connection if assigned to any other VLAN. – This has been fixed.
- TCP/IP access (Telnet, Ping, SNMP) could not be made to the switch through port 24. This has been fixed.

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The SwitchVlanName, SwitchVlanPorts, and SwitchVlanEgressPorts variables could not be changed on the default VLAN (VLAN ID #1) using SNMP. – This has been fixed

When configuring port mirroring via SNMP, the mirroring or mirrored port cannot be changed if the counterpart mirrored or mirroring port is already set to port in a different cluster. – This has been fixed.

When deleting ports from a given VLAN via SNMP, they were put into the VLAN with the next lowest VID, not the default VLAN. Deleted ports were also being placed in multiple VLANs, not just one. – This has been fixed.

The sysUpTime clock of the switch was losing about 180 minutes per day. – This has been fixed.

After adding a static address entry in the forwarding database, enabling VLANs, and then issuing a Return to Default command, the static address would remain in the table display, but could not be deleted. – This has been fixed.

The SNMP RMON etherStatsPkts counter did not increment properly for error frames received by the switch. – This has been fixed.

The SNMP RMON etherStatsOverSizePkts counter did not properly increment when oversized frames were received by the switch. – This has been fixed.

Dynamic addresses learned when VLANs were operational on the switch could be made static via management. An error message displayed on the User Interface indicating that the address was not in the table. Addresses learned when VLANs were not operational could be successfully made static. – This has been fixed.

When the Return to Default Configuration command was executed from the User Interface, the address entries configured for VLANs in the forwarding table were not properly cleared. – This has been fixed.

Certain stressful lab generated traffic scenarios using Netcom SmartBits running SmartWindows software caused the switch to infrequently reset. – This has been fixed.

Occasionally a stream of continuous PINGs to the switch would timeout for several minutes before successfully resuming. – This has been fixed.

KNOWN RESTRICTIONS AND LIMITATIONS:

VLAN must be enabled to use Class of Service.

The maximum number of port based VLANs that can be configured on the switch is 8.

Flow control (802.3x) is not fully functional. The switch will respond to IEEE 802.3x but does not transmit pause frames (Full Duplex) or initiate back pressure (Half Duplex) due to switch congestion.

The broadcast performance on one group of 8 ports (1-8, 9-16, or 17-24) is less than that of the ports on the switch depending on which switch cluster broadcasts are being passed to the CPU.

The aging time for dynamic addresses in the forwarding table is not completely accurate.

When new entries are made to the SNMP RMON log table, they are not done so sequentially.

Error and dropped packet statistics reported on the switch summary and individual port statistics screen may not be synchronized properly with each other, depending on the traffic flow through the switch.

Adding new VLANs with large VLAN values via SNMP may cause some other VLAN parameters to incorrectly change.

Source MAC address of error frames greater than 97 bytes in length are improperly learned by the switch.

Broadcast frames increment the SNMP "ifOutOctets" counter for ports that have no link.

To properly use egress ports to trunk VLANs across a network, at least one port in the same cluster as the egress port must be configured with the same VLAN ID as the egress port itself.

When VLAN operation on the switch is enabled, the overall throughput performance of the switch drops due to the fact that internally, each packet passing through the switch is appended with a four byte IEEE 802.1Q VLAN tag.

When using the port mirroring feature, the mirrored and mirroring (source and destination) ports must be in the same switch cluster (group of 8 ports).

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If a packet with a source MAC address the same as system address is received by the switch, the address will be learned as a dynamic entry, overwriting the system entry. The dynamic address can then be aged out or made static and manually deleted.

Certain traffic patterns may occasionally place addresses into the forwarding table that have not been actually seen by the switch.

Any other problems that those listed above should be reported to our Technical Support Staff.

COMPLIANCE SUPPORT:

Compliance Level	Compliant
Year 2000 and Leap Year	N/A

Known Anomalies:

** No Date information supported with the ELS 100-24TX Firmware Version 1.00.02.

IETF STANDARDS MIB SUPPORT:

RFC No.	Title	Groups Supported
1213	MIB-II	
1398	Ethernet MIB	
1493	Bridge MIB	
1757	RMON MIB	

CABLETRON PRIVATE ENTERPRISE MIB SUPPORT:

Title	Description
N/A	N/A

Cabletron Private Enterprise MIBs are available in ASN.1 format from the Cabletron web site at <http://www.cabletron.com/support/mibs/> . Indexed MIB documentation is also available.

SNMP TRAP SUPPORT:

RFC No.	Title	Groups Supported
	CallCount	
	TrapCount	
	NoCount	

CABLETRON PRIVATE ENTERPRISE TRAP SUPPORT:

Title

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N/A

GLOBAL SUPPORT:

By Phone: (603) 332-9400
By Email: support@cabletron.com
By Web: <http://www.cabletron.com/support>
By Fax: (603) 337-3075
By mail: Cabletron Systems, Inc.
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Rochester, NH 03867-5005

For information regarding the latest firmware available, recent release note revisions, or if you require additional assistance please visit the Cabletron Support web site.