

CUSTOMER RELEASE NOTES

Vertical Horizon
VH-8TX1UM/VH-8TX1MF
Firmware Version 2.04.07.08
September 20, 2001

INTRODUCTION:

The VH-8TX1MF is an 8-port, dual-speed, manageable, standalone, rack-mountable switch. The switch provides 8 10Base-T/100Base-TX ports, and one switch-selectable 100Base-FX multi-mode fiber port. The VH-8TX1UM is an 8-port, dual-speed, manageable, standalone, rack-mountable switch. The switch provides 8 10Base-T/100Base-TX ports, and one switch-selectable 100Base-FX single-mode fiber port. These switches also include on-board SNMP-based management that supports both in-band and out-of-band access for managing the switch.

Management access is provided in-band via Telnet or TCP/IP or out of band via the serial console port interface either directly or through an attached modem. An imbedded Web agent also provides management capability to any computer on the network via common Http browsers such as Netscape Navigator or Microsoft's Internet Explorer (both browsers should be Version 4.0 or above).

Local Console Management (LCM) allows the user to monitor and configure the VH-8TX1MF/UM from a VT-type terminal. LCM can be used to configure features such as SNMP community names and access rights, Port Enable/Disable, firmware downloads, and Device IP address as well as most other parameters. LCM can also provide statistical and diagnostic information about the entire device or an individual port.

Management of the switches is password protected; the same password is used for LCM and for the Web browser interface. Prior to accessing the switch via a network connection, a valid IP address, subnet mask, and in some cases a default gateway must be configured using an out of band connection or the BootP protocol. The management option provides SNMP, RMON (4 groups: 1,2,3,9), and Web management for system control and statistical monitoring.

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
Current Version	2.04.07.08	Customer	9/20/2001

BOOTPROM COMPATIBILITY:

ALL

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NETWORK MANAGEMENT SOFTWARE SUPPORT:

NMS Platform	Version No.
TBD	TBD

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:

Features	Support
802.1P - Traffic Management (2 Queues)	Yes
802.1Q - VLAN tagging and identification (256 VLANs)	Yes
Spanning Tree support	Yes
Local Management via TELNET (four sessions)	Yes
RMON Groups 1,2,3,9	Yes
Runtime Address Discovery	Yes
Online BOOTP/TFTP	Yes
TFTP download from a host	Yes
Trunking	Yes
SNMP	Yes
Web-based Management	Yes
Port Mirroring	Yes
Auto-Negotiation	Yes
IGMP Snooping	Yes
Address Data Base Management	Yes
Configuration Upload/Download	Yes
Port Security (MAC Locking)	Yes
Q-Trunk	Yes

INSTALLATION AND CONFIGURATION NOTES:

In general, the VH-8TX1MF/UM will be shipped to you pre-configured with this version of firmware. If you would like to upgrade an existing VH-8TX1MF/UM, please follow the TFTP download instructions that are included with your firmware image upgrade kit. TFTP download instructions are also available on the Enterasys Support web site at: <http://www.enterasys.com/support/techtips/tk0020-9.html>.

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FIRMWARE CHANGES AND ENHANCEMENTS:

1. This is the initial release of firmware for the VH-8TX1MF. This is the first combined firmware release for both the VH-TX1UM and the VH-8TX1MF.
2. The built in management agent will now respond to 802.1Q tagged packets.
3. The switch now supports Q-Trunking. In order to create a Q-Trunk using web based management; a user must go to the "Port Configuration" screen. When utilizing local console management the user must go into the "Port Based VLAN" screen in order to configure Q-Trunks.
4. The total number of supported VLAN's has been increased from 64 to 256.
5. IGMP snooping is now supported.
6. User can now perform a configuration download/upload.
7. The switch now supports Port Security (MAC locking).
8. The switch now has enhanced maintenance features associated with the address database.
9. The switch does NOT initiate a TCN (topology change notification) when an end station is connected to a port.
10. The sysLocation, sysContact, and sysName strings in the Sys Group of MIB II have been lengthened from 99 to 255.
11. When the User logs in as "Guest" (Read Only) and navigates to the 802.1p Configuration screen, the User cannot get out of this screen using the <ok> option. This has been fixed.
12. The MAC address is now correctly labeled on the System Information screen. It had been called Serial Number in previous versions.

KNOWN RESTRICTIONS AND LIMITATIONS:

1. A user must use the Java chassis manager when attempting chassis view in the NetSight Element Manager. This must be selected in the node properties.
2. When a port is in the Spanning Tree Blocking state, incoming packets will continue to be counted in its RMON counters.
3. When packets that originate at the CPU are transmitted out a mirror target port, they will have no CRC.
4. When a combination of high- and low-priority traffic is transmitted from a high-speed port to a lower-speed port, some high-priority packets may be dropped.
5. When Fast STA is disabled, the configuration count increases by one when a port transitions from a "NO LINK" state to a "BLOCKED" state.
6. Broadcast Suppression is not supported. Although it is possible to configure broadcast suppression parameters through both console and web management, broadcasts may exceed to defined packet per second limit configured.
7. Do not trunk ports with IP Multicast clients.
8. When using Java chassis view with the NetSight Element Manager the switch will reset if the user attempts to apply a static address to a port when the unicast address table is full (8K Addresses). It would not be common for this switch to be deployed in a network where 8K unique addresses are active in the network simultaneously.
9. Ping response delays may be observed.
10. Console screen corruption may be observed. This does not affect the functionality of the switch.
11. In the Web manager the user is allowed to enter values greater than 100 for the address database timer. 100 is the maximum functional value.

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

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COMPLIANCE SUPPORT:

Compliance Level	Compliant
Year 2000	YES*

Known Anomalies: None.

IEEE STANDARDS SUPPORT:

Standard	Title
IEEE 802.1D	Transparent Bridging Specifications (ISO/IEC 10038)
IEEE 802.1p	Traffic Class Expediting and Dynamic Multicast Filtering
IEEE 802.1Q	Virtual Bridged Local Area Networks
IEEE 802.2	Local Area Networks, Logical Link Control (LLC)
IEEE 802.3	CSMA/CD 9 (ISO/IEC 8802-3)
IEEE 802.3I	10Base-T (ISO/IEC 8802-3, clause 14)
IEEE 802.3u	100Base-TX (ISO/IEC 8802-3, clause 25)
IEEE 802.3u	100Base-FX (ISO/IEC 8802-3, clause 26)
IEEE 802.3x	Flow Control

IETF STANDARDS MIB SUPPORT:

RFC No.	Title	Groups Supported
1157	Simple Network Management Protocol(SNMP)	
1213	MIB-II	System, Interfaces, IP, ICMP, UDP, Transmission (dot3), and SNMP
1493	Bridge MIB	Spanning Tree and various managed objects for bridges
1573	Interfaces Evolution MIB	MIB-II Interfaces Group extensions
1643	Ethernet-like	Various Ethernet specific aspects
1757	RMON MIB	Statistics, History, Alarm, and Event
2674	Definitions of Managed Objects for Bridges with Traffic Classes, Multicast Filtering and Virtual LAN Extensions	<p><u>Groups in the P-BRIDGE MIB</u></p> <p>dot1dExtBase OBJECT IDENTIFIER ::= { pBridgeMIBObjects 1 }</p> <p>dot1dPriority OBJECT IDENTIFIER ::= { pBridgeMIBObjects 2 }</p> <p><u>Groups in the Q-BRIDGE MIB</u></p> <p>dot1qBase OBJECT IDENTIFIER ::= { qBridgeMIBObjects 1 }</p> <p>dot1qTp OBJECT IDENTIFIER ::= { qBridgeMIBObjects 2 }</p> <p>dot1qStatic OBJECT IDENTIFIER ::= { qBridgeMIBObjects 3 }</p> <p>dot1qVlan OBJECT IDENTIFIER ::= { qBridgeMIBObjects 4 }</p>

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ENTERASYS PRIVATE ENTERPRISE MIB SUPPORT:

Title	Version
NA	NA

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

SNMP TRAP SUPPORT:

RFC No.	Title
RFC 1215	coldStart_trap warmStart_trap linkUp_trap authenticationFailure_trap egpNeighborLoss_trap
RFC 1493	ENTERPRISE dot1dBridge NewRoot 1 topologyChange 2
RFC 1573	SnmpTraps linkDown 3 LinkUp 4
RFC 1757	IETF RMON, ENTERPRISE rmon -- 1.3.6.1.2.1.16 risingAlarm 1 fallingAlarm 2

ENTERASYS PRIVATE ENTERPRISE TRAP SUPPORT:

NONE

GLOBAL SUPPORT:

By Phone: (603) 332-9400
By Email: support@enterasys.com
By Web: <http://www.enterasys.com/support>
By Fax: (603) 337-3075
By Mail: Enterasys Networks, Inc.
P.O. Box 5005
Rochester, NH 03867-5005

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