

X-Pedition Router – Maintenance Release System Firmware Version E9.0.1.0

System Firmware Release Date: March 2002

INTRODUCTION:

This document provides specific information relevant to version E9.0.1.0 of the System Firmware for the X-Pedition family of products. It includes content from the E9.0.0.1 System Firmware Patch Release.

Enterasys Networks recommends that these Release Notes be thoroughly reviewed prior to the installation or upgrade of this product.

GLOBAL SUPPORT:

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

SYSTEM FIRMWARE SPECIFICATION:

Before installing the E9.0.1.0 System Firmware, the Boot Firmware should be upgraded to version E3.2.0.0.

Refer to the E3.2.0.0 Boot Firmware Release Notes, or any X-Pedition Getting Started Guide, for instructions on upgrading the Boot Firmware.

System Firmware File Name	Version No.	Release Date
xp9010	E9.0.1.0	March 2002
xp9000	E9.0.0.0	December 2001
xp8300	E8.3.0.0	October 2001
xp8210	E8.2.1.0	September 2001
xp8200	E8.2.0.0	June 2001
ssr8100	E8.1.0.0	February 2001
ssr8010	E8.0.1.0	October 2000
ssr8000	E8.0.0.0	September 2000
ssr3200	3.2.0.0	May 2000
ssr3100	3.1.0.0	April 2000
ssr3010	3.0.1.0	March 2000
ssr3000	3.0.0.0	October 1999
ssr2220	2.2.2.0	September 1999
ssr2200	2.2.0.0	April 1999
ssr2100	2.1.0.0	December 1998
ssr2000	2.0.0.0	November 1998
ssr1200	1.2.0.0	September 1998
ssr1100	1.1.0.0	August 1998
ssr1010	1.0.1.0	June 1998
ssr1000	1.0.0.0	April 1998

HARDWARE / BOOT FIRMWARE/ SYSTEM FIRMWARE COMPATIBILITY:

The Minimum Boot Firmware Version is a function of:

- The hardware installed in the system (as listed below).
- The version of VFS used. For more information on VFS versions see the “PCMCIA Card VFS Version” subsection in the “INSTALLATION AND CONFIGURATION NOTES” section of the *X-Pedition Boot Firmware version E3.2.0.0 Release Notes*.
- The need for new features or corrections that are provided in a specific version.

The issue of determining minimum Boot Firmware version can be avoided by installing version E3.2.0.0 of the Boot Firmware.

NOTE: In some cases, the Minimum System Firmware Version depends upon the revision of a particular model number. The revision number appears on the serial number sticker attached to the front of all Enterasys Networks hardware assemblies. These numbers are interpreted as follows:

AAAA XXXX XXXX XXRR



Two Letter Assembly Revision Number

Four Digit “940” Assembly Number

Example:

3570 0000 0000 000A

This number is broken down as follows:

- Assembly number 9403570 (In this case, the SSR-POS21-04)
- The assembly has a revision number of “0A”

For the two SSR-PCMCIA part numbers listed below, sub-part numbers, e.g. 35-028-02, are also listed. Find the sub-part number on the SSR-PCMCIA card. Match it with a sub-part number to aid in determining the minimum System Firmware and Boot Firmware versions.

For detailed information on managing the Boot Firmware, please refer to version E3.1.0.0 of the *X-Pedition Boot Firmware Release Notes*.

This version of System Firmware supports the X-Pedition Router hardware listed in the following table:

Part	Description	Minimum System Firmware Version	Minimum Boot Firmware Version
5SSRM-02	Router module for the Matrix E5	E8.0.1.0	1.1.0.8
6SSRLC-FX-AA	8-port 100BASE-FX (MT-RJ) module for 5SSRM-02 and 6SSRM-02	3.0.50.11	
6SSRLC-LX-AA	2-port 1000BASE-LX module for 5SSRM-02 and 6SSRM-02	3.0.50.11	
6SSRLC-LX70-AA	1-port 1000BASE-LX 70 KM module for 5SSRM-02 and 6SSRM-02	3.0.50.11	
6SSRLC-SER-AA	2-port Serial module (No compression or encryption) for 5SSRM-02 and 6SSRM-02	3.0.50.11	
6SSRLC-SERC-AA	4-port Serial module with compression (No encryption) for 5SSRM-02 and 6SSRM-02	3.0.50.11	
6SSRLC-SERCE-AA	4-port Serial module with compression & encryption for 5SSRM-02 and 6SSRM-02	3.0.50.11	
6SSRLC-SX-AA	2-port 1000BASE-SX module for 5SSRM-02 and 6SSRM-02	3.0.50.11	
6SSRLC-TX-AA	8-port 1000BASE-TX module for 5SSRM-02 and 6SSRM-02	3.0.50.11	
6SSRM-02	Router module for the Matrix E6 (SS6000) and Matrix E7	3.0.50.11	1.1.0.8

Part	Description	Minimum System Firmware Version	Minimum Boot Firmware Version
ER16-04	4-port 1000BASE GBIC module [T-Series] for ER16	E8.0.0.0	
ER16-08	8-port 1000BASE GBIC module [T-Series] for ER16	E8.0.0.0	
ER16-AC	AC Power Supply for ER16	E8.0.0.0	
ER16-ATM29-02	2-port ATM OC-3c base module [T-Series] for ER16	E8.3.0.0	
ER16-CK	Clock module for ER16	E8.0.0.0	
ER16-CM3-128	Control Module 3 (291 MHz CPU) with 128MB for ER16	E8.0.0.0	E3.0.0.0
ER16-CM4-256	Control Module 4 (380 MHz CPU) with 256MB for ER16	E8.2.0.0	E3.1.0.0
ER16-CS	X-Pedition ER16 Chassis with 16 slots. Includes ER16-CK, ER16-FN, and ER16-SF	E8.0.0.0	
ER16-DC	DC Power Supply for ER16	E8.0.0.0	
ER16-FDDI-02	2-port FDDI base module [T-Series] for ER16	E8.3.0.1	
ER16-FN	Fan Tray module for ER16	E8.0.0.0	
ER16-GTX32-04	4-port 1000BASE-TX module for ER16	E9.0.0.0	
ER16-GTX32-08	8-port 1000BASE-TX module for ER16	E9.0.0.0	
ER16-HFX31-24	24-port 100BASE-FX module [T-Series] for ER16 (MMF)	E8.3.0.0	
ER16-HFX39-24	24-port 100BASE-FX module [T-Series] for ER16 (SMF)	E8.3.0.0	
ER16-HSSI-02-CK	2-port HSSI module for ER16 with external clocking	E8.3.0.0	
ER16-SERC-04-AA	4-port Serial module with compression for X-Pedition ER16	E8.3.0.0	
ER16-SERCE-04-A	4-port Serial module with compression and encryption for X-Pedition ER16	E8.3.0.0	
ER16-SF	Switching Fabric module for ER16	E8.0.0.0	
ER16-SX-08	8-port 1000BASE-SX module [T-Series] for ER16	E8.0.0.0	
ER16-TX-24	24-port 10/100BASE-TX module [T-Series] for ER16	E8.0.0.0	
ER16-TX-32	32-port 10/100BASE-TX module [T-Series] for ER16	E8.0.0.0	
SSR-16	X-Pedition 8600 Chassis with 16 slots. Comes with SSR-FAN-16 and SSR-SF-16.	1.2.0.0	
SSR-2-B128	X-Pedition 2000 Chassis with 16-ports 10/100 TX ,128 MB memory, and 2 open slots	3.1.0.0	1.1.0.9
SSR-2-FX	8-port 100BASEFX (MT-RJ) module for X-Pedition 2000	2.1.0.1	
SSR-2-FX-AA	8-port 100BASEFX (MT-RJ) module for X-Pedition 2000	3.0.0.0	
SSR-2-GSX	X-Pedition 2100 Chassis with 8-ports 1000BASE-SX and 64MB Memory	2.2.0.1	1.1.0.5
SSR-2-HSSI-AA	2-port HSSI module for X-Pedition 2000	E8.0.0.0	
SSR-2-LX	2-port 1000BASE-LX module for X-Pedition 2000	1.2.0.0	
SSR-2-LX-AA	2-port 1000BASE-LX module for X-Pedition 2000	3.0.0.0	
SSR-2-LX70	1-port 70 km 1000BASE-LX module for X-Pedition 2000	2.0.0.0	
SSR-2-LX70-AA	1-port 70 km 1000BASE-LX module for X-Pedition 2000	3.0.0.0	
SSR-2-SER	2-port Serial module (No compression or encryption) for X-Pedition 2000	2.1.0.0	
SSR-2-SER-AA	2-port Serial module (No compression or encryption) for X-Pedition 2000	3.0.0.0	
SSR-2-SERC	4-port Serial module with compression (No encryption) for X-Pedition 2000	2.1.0.0	
SSR-2-SERC-AA	4-port Serial module with compression (No encryption) for X-Pedition 2000	3.0.0.0	
SSR-2-SERCE	4-port Serial module with compression and encryption for X-Pedition 2000	2.1.0.0	
SSR-2-SERCE-AA	4-port Serial module with compression and encryption for X-Pedition 2000	3.0.0.0	
SSR-2-SX	2-port 1000BASE-SX module for X-Pedition 2000	1.2.0.0	
SSR-2-SX-AA	2-port 1000BASE-SX module for X-Pedition 2000	3.0.0.0	
SSR-2-TX	8-port 10/100 TX module for X-Pedition 2000	1.2.0.0	
SSR-2-TX-AA	8-port 10/100 TX module for X-Pedition 2000	3.0.0.0	
SSR-8	X-Pedition 8000 Chassis with 8 slots. Comes with SSR-FAN-8.	1.0.0.0	
SSR-ARE	Advanced Routing Engine (currently supports AppleTalk) for X-Pedition 8000/8600	E8.1.0.0	
SSR-ATM29-02	2-port ATM OC-3c base module [T-Series] for X-Pedition 8000/8600	3.1.0.0	
SSR-CM2-128	Control Module 2 (198 MHz CPU) with 128 MB memory for X-Pedition 8000/8600	1.1.0.0	1.1.0.2
SSR-CM2-64	Control Module 2 (198 MHz CPU) with 64 MB memory for X-Pedition 8000/8600	1.1.0.0	1.1.0.2
SSR-CM2B-64	Control Module 2 (198 MHz CPU) with 64 MB memory for X-Pedition 8000/8600	E9.0.0.0	E3.2.0.0
SSR-CM3-128	Control Module 3 (291 MHz CPU) with 128MB memory for X-Pedition 8000/8600	E8.0.0.0	E3.0.0.0
SSR-CM4-256	Control Module 4 (375/380 Mhz CPU) with 256MB memory for X-Pedition 8000/8600	E8.2.0.0	E3.1.0.0
SSR-FAN-16	Fan Tray module for X-Pedition 8600	1.0.0.0	

Part	Description	Minimum System Firmware Version	Minimum Boot Firmware Version
SSR-FAN-8	Fan Tray module for X-Pedition 8000	1.0.0.0	
SSR-FDDI-02	2-port FDDI base module [T-Series] for X-Pedition 8000/8600	3.2.0.0	
SSR-GLH39-02	2-port 1000 LLX / LH module (SCLX for SMF) [T-Series] for X-Pedition 8000/8600	3.1.0.0	
SSR-GLX19-02	2-port 1000 LX module (SCLX for MMF or SMF) with 4 MB for X-Pedition 8000/8600	1.0.0.0	
SSR-GLX29-02	2-port 1000 LX module (SCLX for MMF or SMF) with 16 MB for X-Pedition 8000/8600	1.0.0.0	
SSR-GLX29-02-AA	2-port 1000 LX module (SCLX for MMF or SMF) with 16 MB for X-Pedition 8000/8600	3.0.0.0	
SSR-GLX39-02	2-port 1000 LX module (SCLX for MMF or SMF) [T-Series] for X-Pedition 8000/8600	3.1.0.0	
SSR-GLX39-04	4-port 1000 LX module (SCLX for MMF or SMF) [T-Series] for X-Pedition 8000/8600	E8.3.0.0	
SSR-GLX70-01	1-port 70 Km 1000BASE-LX module with 16 MB for X-Pedition 8000/8600	2.0.0.0	
SSR-GLX70-01-AA	1-port 70 Km 1000BASE-LX module with 16 MB for X-Pedition 8000/8600	3.0.0.0	
SSR-GSX11-02	2-port 1000 SX module (SCSX for MMF Only) with 4 MB for X-Pedition 8000/8600	1.0.0.0	
SSR-GSX21-02	2-port 1000 SX module (SCSX for MMF Only) with 16 MB for X-Pedition 8000/8600	1.0.0.0	
SSR-GSX21-02-AA	2-port 1000 SX module (SCSX for MMF Only) with 16 MB for X-Pedition 8000/8600	3.0.0.0	
SSR-GSX31-02	2-port 1000 SX module (SCSX for MMF Only) [T-Series] for X-Pedition 8000/8600	3.1.0.0	
SSR-GSX31-04	4-port 1000 SX module (SCSX for MMF Only) [T-Series] for X-Pedition 8000/8600	E8.3.0.0	
SSR-GTX32-02	2-port 1000 TX module (Cat 5 RJ-45) [T-Series] for X-Pedition 8000/8600	3.1.0.0	
SSR-GTX32-04	4-port 1000 TX module (Cat 5 RJ-45) [T-Series] for X-Pedition 8000/8600	E9.0.0.0	
SSR-HFX11-08	8-port 100 FX module (MMF SC) with 4 MB for X-Pedition 8000/8600	1.0.0.0	
SSR-HFX21-08	8-port 100BASE-FX module (MMF SC) with 16 MB for X-Pedition 8000/8600	1.0.0.0	
SSR-HFX21-08-AA	8-port 100BASE-FX module (MMF SC) with 16 MB for X-Pedition 8000/8600	3.0.0.0	
SSR-HFX29-08	8-port 100BASE-FX SMF module with 16 MB for X-Pedition 8000/8600	2.0.0.0	
SSR-HFX29-08-AA	8-port 100BASE-FX SMF module with 16 MB for X-Pedition 8000/8600	2.0.0.0	
SSR-HSSI-02	2-port HSSI module for X-Pedition 8000/8600	2.1.0.0	
SSR-HSSI-02-AA	2-port HSSI module for X-Pedition 8000/8600	3.0.0.0	
SSR-HSSI-02-CK	2-port HSSI module for X-Pedition 8000/8600 with external clocking	E8.3.0.0	
SSR-HTX12-08	8-port 10/100 TX module (Cat 5 RJ-45) with 4 MB for X-Pedition 8000/8600	1.0.0.0	
SSR-HTX12-08-AA	8-port 10/100 TX module (Cat 5 RJ-45) with 4 MB for X-Pedition 8000/8600	3.0.0.0	
SSR-HTX22-08	8-port 10/100 TX module (Cat 5 RJ-45) with 16 MB for X-Pedition 8000/8600	1.0.1.0	
SSR-HTX22-08-AA	8-port 10/100 TX module (Cat 5 RJ-45) with 16 MB for X-Pedition 8000/8600	3.0.0.0	
SSR-HTX32-16	16-port 10/100 TX module (Cat 5 RJ-45) with 16 MB [T-Series] for X-Pedition 8000/8600	3.1.0.0	
SSR-MEM-128	128MB Memory Upgrade Kit for SSR-CM2-64, SSR-CM2-128, SSR-CM3-128, and ER16-CM3-128	1.1.0.0	1.1.0.2
SSR-PCMCIA 35-028-01 35-053-01 35-053-02 35-053-03 37-002-01	8MB PCMCIA card for SSR-CM2-64, SSR-CM2-128, SSR-CM3-128, SSR-CM4-256, ER16-CM3-128, and ER16-CM4-256	1.0.0.0	1.0.0.0
SSR-PCMCIA 35-028-02 35-053-04 37-010-01	8MB PCMCIA card for SSR-CM2-64, SSR-CM2-128, SSR-CM3-128, SSR-CM4-256, ER16-CM3-128, and ER16-CM4-256	3.0.1.6, 3.0.1.7, 3.1.0.8 and up excluding 3.2.0.0	E3.0.0.0
SSR-POS21-04	4-port OC-3/STM-1 Packet over SONET/SDH MMF module [T-Series] for X-Pedition 8000/8600	3.1.0.0	
SSR-POS21-04 Assy 3570 Rev0A+	4-port OC-3/STM-1 Packet over SONET/SDH MMF module [T-Series] for X-Pedition 8000/8600	E9.0.0.1	
SSR-POS29-04	4-port OC-3/STM-1 Packet over SONET/SDH SMF module [T-Series] for X-Pedition 8000/8600	3.1.0.0	
SSR-POS29-04 Assy 3569 Rev0A+	4-port OC-3/STM-1 Packet over SONET/SDH SMF module [T-Series] for X-Pedition 8000/8600	E9.0.0.1	

Part	Description	Minimum System Firmware Version	Minimum Boot Firmware Version
SSR-POS31-02	2-port OC-12/STM-4 Packet over SONET/SDH MMF module [T-Series] for X-Pedition 8000/8600	3.1.0.0	
SSR-POS31-02 Assy 3568 Rev0A+	2-port OC-12/STM-4 Packet over SONET/SDH MMF module [T-Series] for X-Pedition 8000/8600	E9.0.0.1	
SSR-POS39-02	2-port OC-12/STM-4 Packet over SONET/SDH SMF module [T-Series] for X-Pedition 8000/8600	3.1.0.0	
SSR-POS39-02 Assy 3567 Rev0A+	2-port OC-12/STM-4 Packet over SONET/SDH SMF module [T-Series] for X-Pedition 8000/8600	E9.0.0.1	
SSR-PS-16	AC Power Supply module for X-Pedition 8600	1.0.0.0	
SSR-PS-16-DC	DC Power Supply module for X-Pedition 8600	1.0.0.0	
SSR-PS-8	AC Power Supply module for X-Pedition 8000	1.0.0.0	
SSR-PS-8-DC	DC Power Supply module for X-Pedition 8000	1.0.0.0	
SSR-SERC-04	4-port Serial module with compression for X-Pedition 8000/8600	2.1.0.0	
SSR-SERC-04-AA	4-port Serial module with compression for X-Pedition 8000/8600	3.0.0.0	
SSR-SERCE-04	4-port Serial module with compression and encryption for X-Pedition 8000/8600	2.1.0.0	
SSR-SERCE-04-AA	4-port Serial module with compression and encryption for X-Pedition 8000/8600	3.0.0.0	
SSR-SF-16	Switching Fabric module for X-Pedition 8600	1.2.0.0	
XP-2100	X-Pedition 2100 Chassis with 8-ports 1000BASE-SX, 64MB Memory	E9.0.1.0	E3.2.0.0
XP-2400	X-Pedition 2400 Chassis with 16-ports 10/100 TX, 128MB expandable memory, and 2 card slots.	E9.0.0.0	E3.2.0.0
XP-2400-256	X-Pedition 2400 Chassis with 16-ports 10/100 TX, 256MB memory, and 2 card slots.	E9.0.0.0	E3.2.0.0
XP-2400-DC	X-Pedition 2400 Chassis with 16-ports 10/100 TX, 128MB expandable memory, and 2 card slots; DC-powered	E9.0.0.0	E3.2.0.0
XP-2-ATM29-02	2-port ATM OC-3c base module [T-Series] for X-Pedition 2400	E9.0.0.0	
XP-2-FX-AA	8-port 100BASEFX (MT-RJ) module for X-Pedition 2400	E9.0.0.0	
XP-2-HSSI-CK	2-port HSSI module for X-Pedition 2400	E9.0.0.0	
XP-2-LX-AA	2-port 1000BASE-LX module for X-Pedition 2400	E9.0.0.0	
XP-2-LX70-AA	1-port 70 km 1000BASE-LX module for X-Pedition 2400	E9.0.0.0	
XP-2-SER-AA	2-port Serial module (No compression or encryption) for X-Pedition 2400	E9.0.0.0	
XP-2-SERC-AA	4-port Serial module with compression (No encryption) for X-Pedition 2400	E9.0.0.0	
XP-2-SERCE-AA	4-port Serial module with compression and encryption for X-Pedition 2400	E9.0.0.0	
XP-2-SX-AA	2-port 1000BASE-SX module for X-Pedition 2400	E9.0.0.0	
XP-2-TX-AA	8-port 10/100 TX module for X-Pedition 2400	E9.0.0.0	
XP-PCMCIA-16AT	16MB ATA PCMCIA card for SSR-CM2-64, SSR-CM2-128, SSR-CM3-128, SSR-CM4-256, ER16-CM3-128, and ER16-CM4-256	E8.2.0.0	E3.1.0.0
XP-PCMCIA-32AT	32MB ATA PCMCIA card for SSR-CM2-64, SSR-CM2-128, SSR-CM3-128, SSR-CM4-256, ER16-CM3-128, and ER16-CM4-256	E8.2.0.0	E3.1.0.0
XP-PCMCIA-16LN	16MB PCMCIA card for SSR-CM2-64, SSR-CM2-128, SSR-CM3-128, SSR-CM4-256, ER16-CM3-128, and ER16-CM4-256	3.0.1.6, 3.0.1.7, 3.1.0.8 and up, excluding 3.2.0.0	E3.0.0.0

The following table lists hardware **not** supported in this System Firmware release. The last System Firmware release to support this hardware was series 3.0.X.X.

Part	Description
SSR-2-B	SSR2000 with 32 MB
SSR-2-B-AA	SSR2000 with 32 MB
SSR-CM-128	Control Module 1 with 128 MB memory for SSR8000 and SSR8600
SSR-CM-64	Control Module 1 with 64 MB memory for SSR8000 and SSR8600

The following table lists supported hardware that is System Firmware and Boot Firmware version independent.

Part	Description
APHY-21	SSR-ATM29-02 1 port OC-3 MMF Physical Interface Module
APHY-22	SSR-ATM29-02 1 port OC-3 UTP Physical Interface Module
APHY-29IR	SSR-ATM29-02 1 port OC-3 SMF-IR Physical Interface Module
APHY-67	SSR-ATM29-02 1 port DS-3/T3 Physical Interface Module (Coax)
APHY-77	SSR-ATM29-02 1 port E-3 Physical Interface Module (Coax)
APHY-82	SSR-ATM29-02 1 port T-1 Physical Interface Module (UTP)
APHY-92	SSR-ATM29-02 1 port E-1 Physical Interface Module (UTP)
FPHY-01	SSR-FDDI-02 MMF DAS/SAS with SC connectors
FPHY-02	SSR-FDDI-02 UTP SAS with RJ-45 connector
FPHY-09	SSR-FDDI-02 SMF DAS/SAS with SC connectors
XP-APHY-21	ER16-ATM29-02/XP-2-ATM29-02 1 port OC-3 MMF Physical Interface Module
XP-APHY-22	ER16-ATM29-02/XP-2-ATM29-02 1 port OC-3 UTP Physical Interface Module
XP-APHY-29IR	ER16-ATM29-02/XP-2-ATM29-02 1 port OC-3 SMF-IR Physical Interface Module
XP-APHY-67	ER16-ATM29-02/XP-2-ATM29-02 1 port DS-3/T3 Physical Interface Module (Coax)
XP-APHY-77	ER16-ATM29-02/XP-2-ATM29-02 1 port E-3 Physical Interface Module (Coax)
XP-APHY-82V	ER16-ATM29-02/XP-2-ATM29-02 1 port T-1 Physical Interface Module (UTP) with over current/voltage protection.
XP-APHY-92V	ER16-ATM29-02/XP-2-ATM29-02 1 port E-1 Physical Interface Module (UTP) with over current/voltage protection.
XP-FPHY-01	ER16-FDDI-02 MMF DAS/SAS with SC connectors
XP-FPHY-02	ER16-FDDI-02 UTP SAS with RJ-45 connector
XP-FPHY-09	ER16-FDDI-02 SMF DAS/SAS with SC connectors
GPIM-01	ER16 Gigabit Ethernet Physical Interface Module, 1000BASESX
GPIM-08	ER16 Gigabit Ethernet Physical Interface Module, Long Haul (70Km)
GPIM-09	ER16 Gigabit Ethernet Physical Interface Module, 1000BASELX
SSR-2-RACKMOUNT	Rack Mount Kit for X-Pedition 2000 and X-Pedition 2100
SSR-449DTE-02	4 meter 2 lead cable with 2 male RS449 DTE (male) connectors
SSR-530DTE-02	4 meter 2 lead cable with 2 male RS530 (male) connectors
SSR-HSSI-CAB	3 meter HSSI cable, male to male connector
SSR-V35-DTE-02	4 meter 2 lead cable with 2 male V35 DTE (male) connectors
SSR-X21DTE-02	4 meter 2 lead cable and 2 make X21 DTE (male) connectors

HARDWARE REQUIREMENTS TABLE:

NOTE: X-Pedition line card hardware makes use of three basic ASIC versions (pre AA-series, AA-series and T-series). The features supported by each line card are roughly defined by which series of ASIC hardware is used on that card.

The following table shows the hardware supporting specific features in this release:

X-Pedition Feature Set / Part Number	Description	Pre AA	AA – Series										T – Series				
		Weighted Fair Queuing	Network Address Translation	Server Load Balancing	Per Flow Rate Limiting	Flow Aggregate Rate Limiting	Per Protocol VLAN	Established Bit ACL	TOS Rewrite	Layer 4 Bridging	Multiple IPX Encapsulation	Per Port Rate Limiting	Aggregate Rate Limiting	Jumbo Frame Support	Weighted Fair Queuing	Weighted Random Early Detection	
5SSRM-02																	
5SSRM-02	Router Module for the Matrix E5	X	X	X	X	X	X	X	X	X	X						
6SSRM-02																	
6SSRM-02	Router Module for the Matrix E6 & E7	X	X	X	X	X	X	X	X	X	X						
5SSRM-02 / 6SSRM-02																	
6SSRLC-FX-AA	8-port 100BASE-FX (MT-RJ)	X	X	X	X	X	X	X	X	X	X						
6SSRLC-LX-AA	2-port 1000BASE-LX	X	X	X	X	X	X	X	X	X	X						
6SSRLC-LX70-AA	1-port 1000BASE-LX 70 KM	X	X	X	X	X	X	X	X	X	X						
6SSRLC-SER-AA	2-port Serial	X	X	X	X	X	X	X	X	X	X						
6SSRLC-SERC-AA	4-port Serial, compression	X	X	X	X	X	X	X	X	X	X						
6SSRLC-SERCE-AA	4-port Serial, compression & encryption	X	X	X	X	X	X	X	X	X	X						
6SSRLC-SX-AA	2-port 1000BASE-SX	X	X	X	X	X	X	X	X	X	X						
6SSRLC-TX-AA	8-port 10/100BASE-TX	X	X	X	X	X	X	X	X	X	X						
XP 2000																	
SSR-2-B128	X-Pedition 2000	X	X	X	X	X	X	X	X	X	X						
SSR-2-FX	8-port 100BASEFX	X															
SSR-2-FX-AA	8-port 100BASEFX	X	X	X	X	X	X	X	X	X	X						
SSR-2-HSSI-AA	2-port HSSI	X	X	X	X	X	X	X	X	X	X						
SSR-2-LX	2-port 1000BASE-LX																
SSR-2-LX-AA	2-port 1000BASE-LX		X	X	X	X	X	X	X	X	X						
SSR-2-LX70	1-port 70 km 1000BASE-LX																
SSR-2-LX70-AA	1-port 70 km 1000BASE-LX		X	X	X	X	X	X	X	X	X						
SSR-2-SER	2-port Serial	X															
SSR-2-SER-AA	2-port Serial	X	X	X	X	X	X	X	X	X	X						
SSR-2-SERC	4-port Serial, compression	X															
SSR-2-SERC-AA	4-port Serial, compression	X	X	X	X	X	X	X	X	X	X						
SSR-2-SERCE	4-port Serial, compression & encryption	X															
SSR-2-SERCE-AA	4-port Serial, compression & encryption	X	X	X	X	X	X	X	X	X	X						
SSR-2-SX	2-port 1000BASE-SX																
SSR-2-SX-AA	2-port 1000BASE-SX		X	X	X	X	X	X	X	X	X						
SSR-2-TX	8-port 10/100 TX	X															
SSR-2-TX-AA	8-port 10/100 TX	X	X	X	X	X	X	X	X	X	X						
XP 2100																	
SSR-2-GSX (AA)	X-Pedition 2100		X	X	X	X	X	X	X	X	X						
XP-2100	X-Pedition 2100		X	X	X	X	X	X	X	X	X						
XP 2400																	
XP-2400	X-Pedition 2400	X	X	X	X	X	X	X	X	X	X						
XP-2-ATM29-02	2-port ATM OC-3	X	X	X	X		X	X	X	X	X	X	X	X	X	X	
XP-2-FX-AA	8-port 100BASEFX	X	X	X	X	X	X	X	X	X	X						

X-Pedition Feature Set / Part Number	Description	Pre AA	AA – Series									T – Series				
		Weighted Fair Queuing	Network Address Translation	Server Load Balancing	Per Flow Rate Limiting	Flow Aggregate Rate Limiting	Per Protocol VLAN	Established Bit ACL	TOS Rewrite	Layer 4 Bridging	Multiple IPX Encapsulation	Per Port Rate Limiting	Aggregate Rate Limiting	Jumbo Frame Support	Weighted Fair Queuing	Weighted Random Early Detection
XP-2-HSSI-AA	2-port HSSI	X	X	X	X	X	X	X	X	X	X					
XP-2-LX-AA	2-port 1000BASE-LX		X	X	X	X	X	X	X	X	X					
XP-2-LX70-AA	1-port 70 km 1000BASE-LX		X	X	X	X	X	X	X	X	X					
XP-2-SER-AA	2-port Serial	X	X	X	X	X	X	X	X	X	X					
XP-2-SERC-AA	4-port Serial, compression	X	X	X	X	X	X	X	X	X	X					
XP-2-SERCE-AA	4-port Serial, compression & encryption	X	X	X	X	X	X	X	X	X	X					
XP-2-SX-AA	2-port 1000BASE-SX		X	X	X	X	X	X	X	X	X					
XP-2-TX-AA	8-port 10/100 TX	X	X	X	X	X	X	X	X	X	X					
XP 8000 / 8600																
SSR-ARE	Advanced Routing Engine															
SSR-ATM29-02	2-port ATM OC-3	X	X	X	X		X	X	X	X	X	X	X	X	X	X
SSR-FDDI-02	2-port FDDI	X	X	X	X		X	X	X	X	X	X	X	1	X	X
SSR-GLH39-02	2-port 1000 LLX/LH	X	X	X	X		X	X	X	X	X	X	X	X	X	X
SSR-GLX19-02	2-port 1000 LX – 4 MB															
SSR-GLX29-02	2-port 1000 LX – 16 MB															
SSR-GLX29-02-AA	2-port 1000 LX – 16 MB		X	X	X	X	X	X	X	X	X					
SSR-GLX39-02	2-port 1000 LX	X	X	X	X		X	X	X	X	X	X	X	X	X	X
SSR-GLX39-04	4-port 1000 LX	X	X	X	X		X	X	X	X	X	X	X	X	X	X
SSR-GLX70-01	1-port 70 km 1000BASE-LX															
SSR-GLX70-01-AA	1-port 70 km 1000BASE-LX		X	X	X	X	X	X	X	X	X					
SSR-GSX11-02	2-port 1000 SX – 4 MB															
SSR-GSX21-02	2-port 1000 SX – 16 MB															
SSR-GSX21-02-AA	2-port 1000 SX – 16 MB		X	X	X	X	X	X	X	X	X					
SSR-GSX31-02	2-port 1000 SX	X	X	X	X		X	X	X	X	X	X	X	X	X	X
SSR-GSX31-04	4-port 1000 SX	X	X	X	X		X	X	X	X	X	X	X	X	X	X
SSR-GTX32-02	2-port 1000 TX	X	X	X	X		X	X	X	X	X	X	X	X	X	X
SSR-GTX32-04	4-port 1000 TX	X	X	X	X		X	X	X	X	X	X	X	X	X	X
SSR-HFX11-08	8-port 100BASE-FX – 4 MB	X														
SSR-HFX21-08	8-port 100BASE-FX – 16 MB	X														
SSR-HFX21-08-AA	8-port 100BASE-FX – 16 MB	X	X	X	X	X	X	X	X	X	X					
SSR-HFX29-08	8-port 100BASE-FX SMF	X														
SSR-HFX29-08-AA	8-port 100BASE-FX SMF	X	X	X	X	X	X	X	X	X	X					
SSR-HSSI-02	2-port HSSI	X														
SSR-HSSI-02-AA	2-port HSSI	X	X	X	X	X	X	X	X	X	X					
SSR-HSSI-02-CK	2-port HSSI with external clocking	X	X	X	X	X	X	X	X	X	X					
SSR-HTX12-08	8-port 10/100 TX – 4 MB	X														
SSR-HTX12-08-AA	8-port 10/100 TX – 4 MB	X	X	X	X	X	X	X	X	X	X					
SSR-HTX22-08	8-port 10/100 TX – 16 MB	X														
SSR-HTX22-08-AA	8-port 10/100 TX – 16 MB	X	X	X	X	X	X	X	X	X	X					
SSR-HTX32-16	16-port 10/100 TX – 16 MB	X	X	X	X		X	X	X	X	X	X	X		X	
SSR-POS21-04	4-port OC-3/STM-1 POS MMF	X	X	X	X		X	X	X	X	X	X	X	X	X	X
SSR-POS29-04	4-port OC-3/STM-1 POS SMF	X	X	X	X		X	X	X	X	X	X	X	X	X	X
SSR-POS31-02	2-port OC-12/STM-4 POS MMF	X	X	X	X		X	X	X	X	X	X	X	X	X	X
SSR-POS39-02	2-port OC-12/STM-4 POS SMF	X	X	X	X		X	X	X	X	X	X	X	X	X	X
SSR-SERC-04	4-port Serial, compression	X														
SSR-SERC-04-AA	4-port Serial, compression	X	X	X	X	X	X	X	X	X	X					
SSR-SERCE-04	4-port Serial, compression & encryption	X														
SSR-SERCE-04-AA	4-port Serial, compression & encryption	X	X	X	X	X	X	X	X	X	X					
ER16																
ER16-04	4-port 1000BASE GBIC	X	X	X	X		X	X	X	X	X	X	X	X	X	X
ER16-08	8-port 1000BASE GBIC	X	X	X	X		X	X	X	X	X	X	X	X	X	X
ER16-ATM29-02	2-port ATM OC3	X	X	X	X		X	X	X	X	X	X	X	X	X	X
ER16-FDDI-02	2-port FDDI	X	X	X	X		X	X	X	X	X	X	X	1	X	X

X-Pedition Feature Set / Part Number	Description	Pre AA	AA – Series										T – Series				
		Weighted Fair Queuing	Network Address Translation	Server Load Balancing	Per Flow Rate Limiting	Flow Aggregate Rate Limiting	Per Protocol VLAN	Established Bit ACL	TOS Rewrite	Layer 4 Bridging	Multiple IPX Encapsulation	Per Port Rate Limiting	Aggregate Rate Limiting	Jumbo Frame Support	Weighted Fair Queuing	Weighted Random Early Detection	
ER16-GTX32-04	4-port 1000BASE-TX	X	X	X	X		X	X	X	X	X	X	X	X	X	X	
ER16-GTX32-08	8-port 1000BASE-TX	X	X	X	X		X	X	X	X	X	X	X	X	X	X	
ER16-HFX31-24	24-port 100BASE-FX (MMF)	X	X	X	X		X	X	X	X	X	X	X		X	X	
ER16-HFX39-24	24-port 100BASE-FX (SMF)	X	X	X	X		X	X	X	X	X	X	X		X	X	
ER16-HSSI-02-CK	2-port HSSI with external clocking	X	X	X	X	X	X	X	X	X	X						
ER16-SERC-04-AA	4-port Serial, compression	X	X	X	X	X	X	X	X	X	X						
ER16-SERCE-04-A	4-port Serial, compression & encryption	X	X	X	X	X	X	X	X	X	X						
ER16-SX-08	8-port 1000BASE-SX	X	X	X	X		X	X	X	X	X	X	X	X	X	X	
ER16-TX-24	24-port 10/100BASE-TX	X	X	X	X		X	X	X	X	X	X	X		X	X	
ER16-TX-32	32-port 10/100BASE-TX	X	X	X	X		X	X	X	X	X	X	X		X	X	

¹ SSR-FDDI-02 jumbo frame support is limited to 4500 bytes.

NETWORK MANAGEMENT SOFTWARE SUPPORT:

The following table displays information on the Network Management Software that supports this release:

NMS Platform	Version	Part Number
NetSight Element Manager	3.0	NS-EM-LIC-1 NS-EM-WEB NS-EM-CD NS-EM-LIC-5 NS-EM-LIC-10 NS-EM-LIC-20

NOTE: Network Management Software may not utilize the latest features in the E9.0.0.0 System Firmware. Enterasys Networks recommends reviewing the release notes included with the user's specific Network Management Platform for more information

INSTALLATION AND CONFIGURATION NOTES:
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Password Recovery

If an X-Pedition password is lost and the user is unable to log in or enter Enable mode, the procedure outlined at <http://12.25.1.61/esupport/esupport/consumer/esupport.asp?id=884a59ad-dec9-4def-8ce4-4d79d14e5e2d&resource=&number=0&isExternal=0> can provide access to the system.

ISSUES RESOLVED IN E9.0.1.0:

Because all of the issues in the following tables have been resolved, a statement with each issue declaring its resolution has not been included.

Resolved Issues are sorted alphabetically by topic heading.

5SSRM-02/6SSRM-02	I.D.
The 5SSRM-02 and 6SSRM-02 may experience loss of communication on the backplane port when connected with 6E1xx-xx or 6H1xx-xx modules.	F2179

Access Control List (ACL)	I.D.
Negating an IP ACL, associated with an IP-policy and configured with the accounting parameter, will cause the X-Pedition to core dump.	F2351
Example Commands: <pre>acl ACL1 permit ip any any any 80 accounting 5-minutes ip-policy MY_POLICY permit acl ACL1 action policy-first next-hop-list</pre>	

Address Resolution Protocol (ARP)	I.D.
When two ARP entries map different IP addresses to the same MAC address, movement of one will inadvertently affect the other.	F2291
Static VLAN ARPs will be overwritten when routing changes are made.	F2318
DHCPINFORM traffic will cause the modification of ARP entries.	F2406

AppleTalk / Advanced Routing Engine (ARE)	I.D.
If an AppleTalk node is moved from one cable-range to another on the same router, the node will be unable to connect to the new network until its previous AARP entry times-out, or the AARP table is cleared.	F1489
<p>A small memory leak in AppleTalk ARP request handling can cause the ARE to cease functioning for about two minutes while it resets itself. This condition is network configuration dependent and may never be seen. If it occurs the following error messages will display:</p> <pre>%ARE-E-AREERROR, Error from ARE module 4 -- -SYS-HEAP95FULL, heap is at 95 percent of maximum usage. %SYS-I-HOTSWAP_OUTRXD, received hotswapped-out request for slot 4</pre> <p>The module will automatically resume normal operation after reset. <i>This issue was resolved in E9.0.0.1.</i></p>	F2277
<p>The appletalk aarp show all command will cause the X-Pedition to core dump if more than 500 entries exist in the AARP cache.</p> <p>Example Error Message:</p> <pre>%SYS-F-MEMCORRUPT, memory block '0x8194e6a8' has been corrupted</pre>	F2302

Asynchronous Transfer Mode (ATM) Module	I.D.
IPX interfaces configured without a peer address on ATM ports will incorrectly send out inverse ARP packets with an IP address of 0.0.0.0. <i>This issue was resolved in E9.0.0.1.</i>	F2115

Command Line Interface (Native)	I.D.
<p>The output of the ip-router show rib command does not page correctly.</p> <p>NOTE: Internal testing has determined that the X-Pedition functions as designed in this instance. The terminal display used had an incorrect number of columns selected. This issue is closed.</p>	F1942
<p>The CLI engine may merge commands containing mutually exclusive options. If a new command is entered, containing enough information identical to an existing command, but also containing one or more options that can't co-exist with options in the existing command, then the CLI engine may merge the two commands. This will result in a single command containing mutually exclusive options. It will be errored-out, and it cannot be negated.</p> <p>The following commands are susceptible to this problem:</p> <ul style="list-style-type: none"> • dhcp define parameters • dhcp define static-ip • snmp set community • snmp set target • snmp set target-params 	F2061 F2378
<p>The filters add address-filter command will produce the following error if the keyword any is used in the vlan parameter:</p> <p style="padding-left: 40px;">%L2TM-W-VLANID, VLAN Id -1 does not exist</p> <p>This command will also permit any number in the vlan parameter, even if no VLAN with that number exists. <i>This issue was resolved in E9.0.0.1.</i></p>	F2140
<p>If a command is commented-in that is in conflict with a command that is currently pending negation from the scratchpad, an error will occur. This may cause one or both of the commands to be deleted from the Active configuration.</p>	F2210
<p>If the I2-tables show all-macs command is entered on a VRRP-enabled router that has a virtual router created but not started, the following error message will occur repeatedly resulting in loss of console session control:</p> <p style="padding-left: 40px;">%L2TM-E-INVLDMACENTRY, Invalid MAC Table Entry(81daab10) - source and dest ptr NULL</p>	F2271
<p>Due to print spooler enhancements made in E9.0.0.0, pressing "CTRL+C" or the "Q" key at a "more" prompt when the display buffer is empty will cause the X-Pedition to core dump. <i>This issue was resolved in E9.0.0.1.</i></p>	F2307 F2322
<p>When port errors or port statistics are cleared and then displayed (through the statistics show port command) after a time zone change, the "statistics last cleared" output will not reflect this time zone change.</p>	F2314
<p>When a large table (several thousand lines) is displayed in the CLI, pressing the 'Q' key immediately after the "more" prompt is displayed will not suppress the display of the entire table if unbuffered lines still exist. <i>This issue was resolved in E9.0.0.1.</i></p>	F2316
<p>Negating a command ending with a wild card symbol (*) will cause the X-Pedition to core dump.</p>	F2341
<p>The CLI command system disable inputportlevel-rate-limiting incorrectly accepts a list of channels, rather than a list of slot numbers. This allows out-of-range slot numbers to pass to the system, result in a core dump.</p>	F2358
<p>If the save startup command is repeatedly issued in a 30-second time period on an X-Pedition that does not have SNMP v3 configured and/or includes a blank Startup configuration, the following error message may occur:</p> <p style="padding-left: 40px;">%SYS-E-XFERBACKUP, Data transfer to backup control module failed</p>	F2398

Control Module (CM)	I.D.
<p>Under rare conditions, an error in the synchronization of the Control Module and backplane may produce a core dump. <i>This issue was resolved in E9.0.0.1.</i></p>	F2035

Distance Vector Multicast Routing Protocol (DVMRP)	I.D.
If another router is connected to an X-Pedition with DVMRP enabled, and that router becomes the querier on the subnet, the X-Pedition will start flooding multicast from all VLAN ports. Clients may begin receiving traffic even if they have not requested it. <i>This issue was resolved in E9.0.0.1.</i>	F2113
ER16	I.D.
On an ER16 containing a ER16-TX-32 card in slot 16, the system will core dump if auto-hash mode is enabled on et.16.32, and traffic flowing into this port within the first three minutes after initialization causes the hash tables to overflow. <i>This issue was resolved in E9.0.0.1.</i>	F2238
Physically moving an IPX VLAN port connection from any port on an X-Pedition ER16 to any other port in slots 8-16 will cause IPX traffic to be misdirected and/or dropped.	F2258
Fiber Distributed Data Interface (FDDI)	I.D.
The fddi set path-group command cannot be negated from the configuration. <i>This issue was resolved in E9.0.0.1.</i>	F1892
Dynamic Host Configuration Protocol (DHCP)	I.D.
If an X-Pedition is set up as a DHCP server, and a client changes subnets, reboots, and attempts to renew its lease, the DHCP server will ignore this request. NOTE: The dhcp <scope> define parameters command now includes an authoritative parameter. When this parameter is included, the X-Pedition will no longer ignore the request.	F1820
DHCP packets with insufficient information to be forwarded as unicast will not be broadcast out the destination interface. NOTE: The X-Pedition now supports the optional functionality to forward these packets as broadcast if insufficient information exists as per RFC 2131, Section 4.1.	F2343
Interface	I.D.
Attempting to create an IP interface on a SmartTRUNK port with an identifier of "st.X" will result in an error if "X" corresponds to the absolute port number of an ATM port (determined through the system show hardware command). Example: If an attempt is made to create an IP interface on SmartTRUNK "st.1", and an ATM card exists in slot 1 of the chassis, an error will occur. This is because the absolute port number of the first ATM port (at.1.1) is 1. <i>This issue was resolved in E9.0.0.1.</i>	F2261
Internet Group Management Protocol (IGMP)	I.D.
When using Layer-2 IGMP snooping on a Gigabit module, the X-Pedition may forward duplicate IGMP queries. <i>This issue was resolved in E9.0.0.1.</i>	F1911
The Configuration-mode command igmp start-snooping will cause all Enhanced Interior Gateway Routing Protocol (EIGRP) multicast packets to be dropped. <i>This issue was resolved in E9.0.0.1.</i>	F2225
Internet Protocol (IP)	I.D.
Attempts to comment-in an ip-policy <name> permit command will fail if an ip-policy <name> permit acl command with the same <name> value exists in the configuration. <i>This issue was resolved in E9.0.0.1.</i>	F2170

Internet Protocol (IP)	I.D.
Disabling either BGP or RIP on an interface that is running both may cause the ip show routes command to display routes associated with the protocol disabled. <i>This issue was resolved in E9.0.0.1.</i>	F2175
If the length field of an IP packet is set to a value other than a multiple of 4, the X-Pedition will be unable to handle the packet correctly resulting in a core dump.	F2219
In E9.0.0.0, when configuring aggregate routes with either the ip-router policy summarize route or the ip-router policy aggr-gen destination <name> source <name> command, the X-Pedition will core dump due to an assertion failure. <i>This issue was resolved in E9.0.0.1.</i>	F2295
IP-policy routing may produce an incorrect per-route reference count. Consequently, system stability may be at risk.	F2444

Layer-2	I.D.
When a 10/100 port is administratively configured for 10 megabits/half duplex, the MAC chips may redirect outbound packets back to the router. This is detectable through large amounts of moving MAC addresses, although no loops exist in the network. <i>This issue was resolved in E9.0.0.1.</i>	F2253
If a multicast MAC address is seen as both a source and destination on a SmartTRUNK, a core dump may occur as the Layer-2 entry is removed.	F2278

Layer-3	I.D.
Any traffic exiting port 32 of slot 16 on an ER16 will cause a core dump after the router receives traffic with the following characteristics: <ul style="list-style-type: none"> Received on port 1 of slot 1 Uses the destination MAC address of the router Causes a Layer-3 table miss Is not multicast Is not broadcast <i>This issue was resolved in E9.0.0.1.</i>	F2207
When a large number of Layer-3 flows exist, saving a configuration may cause a core dump if changes to that configuration involve <i>all</i> of the following: interfaces, ACLs, and routing information. <i>This issue was resolved in E9.0.0.1.</i>	F2262
UDP packets sent to an invalid destination address will cause the X-Pedition to install two Layer-3 flows rather than one.	F2298

Multicast	I.D.
Under rare circumstances, multicast streams being transmitted across a Q-trunk may lose their VLAN tagging information. <i>This issue was resolved in E9.0.0.1.</i>	F1985 F2062
QoS 802.1P priorities will not be preserved when multicast traffic passes across a Q-trunk. <i>This issue was resolved in E9.0.0.1.</i>	F2256
Multicast traffic will not be properly forwarded across an 802.1Q-trunk if IGMP group membership is established before a multicast source begins sending to that group. <i>This issue was resolved in E9.0.0.1.</i>	F2352
The qos set l2 command will not apply the specified 802.1P priority to outbound multicast traffic across a Q-trunk. <i>This issue was resolved in E9.0.0.1.</i>	F2384

NetFlow	I.D.
NetFlow does not adjust packets for differences in time zone.	F2070
If a hot-swap occurs while NetFlow is in operation, ports affected by the hot-swap will not re-initialize NetFlow.	F2110 F2434
During each update to the collector, NetFlow incorrectly reports the total number of packets and octets seen for that particular flow. NetFlow should report only the number of packets and octets seen for a particular flow since it reported previously.	F2201
The packet count reported for a flow is incorrect. Unlearned packets sent by the CPU before a flow is established will not be counted as part of the total packets for a flow and, consequently, that packet count will be slightly incorrect.	F2220
Unusually small packets will be erroneously reported by NetFlow to have over 4 billion bytes.	F2297
The following options for the netflow set and netflow set collector commands are unnecessary: <ul style="list-style-type: none"> • timeout • deadtime • retries NOTE: These commands have been removed from the Native CLI.	F2303
NetFlow will not accurately report the packet byte count of a ping packet.	F2325
Hot-swapping out a module while the netflow show ports command is accessing information on that module could result in a core dump.	F2430
An excessive number of NetFlow error messages may appear on the console if the X-Pedition is nearing full utilization of the memory allocated to NetFlow. This error message is as follows: %NETFLOW-W-WARN_MSG, NetFlow Warning: max memory crossed - insufficient memory	F2442

Network Address Translation (NAT)	I.D.
NAT does not support DNS name extensions (RFC 2694). As a result, when a packet bearing a name extension arrives, the following error message will display: "NAT_Err: name exceeded in file nat_protocol_api.c at line 634" If many packets of this type arrive, CPU utilization may increase. NOTE: The X-Pedition may now be configured to prevent the display of the message above. This can be done through the following command: nat set dns-name-extension-error off In addition, the wording and format of the above error message has been altered to read as follows: %NAT-E-DNSNAMEEXTNOTSUPP, DNS Name Extensions are not supported <i>This issue was resolved in E9.0.0.1.</i>	F1978
If an FTP session is established across a link on an X-Pedition running dynamic NAT with PAT, the FTP commands may be mistranslated by NAT. This will cause the packets to become malformed, potentially causing the FTP session to freeze.	F2273

Network Time Protocol (NTP)	I.D.
If the X-Pedition loses link on the interface used to send NTP requests, the router may send the request with the loopback address (127.0.0.1) as the source IP address. <i>This issue was resolved in E9.0.0.1.</i>	F1977
If an ntp set server entry is not negated or commented-out before being replaced with another ntp set server command, the X-Pedition will core dump.	F2330

Open Shortest Path First (OSPF)	I.D.
OSPF may not properly update the RIB when multiple paths exist. <i>This issue was resolved in E9.0.0.1.</i>	F2275
The ospf add interface <if name> to-area <area name> command is not case-sensitive.	F2342
OSPF may report an incorrect cost for WAN interfaces.	F2379

Port-Mirroring	I.D.
Negating a port-mirroring command may cause BPDU filtering to fail.	F1722
Negating a port-mirroring command may not remove all mirrored flows.	F2338
Port-mirroring fails to mirror Layer-2 management traffic upon reboot.	F2349
Applying an STP BPDU filter on a mirrored port will disable the mirror for that MAC address.	F2361

Protocol Independent Multicast (PIM-SM)	I.D.
When a loopback connector is attached to an interface that has been designated as the PIM BSR address (using the pim sparse set component <component name> bsr-address <ip address> command), the RP-set will not be properly distributed to the other routers in the PIM network.	F2301
The configuration of a bootstrap router and a static RP set in PIM-SM will cause a parse error. Removing and re-entering the configuration for either the bootstrap router or the static RP set will result in a core dump.	F2519
Using the pim sparse set component <name> bsr-timeout <number> or pim sparse set component <name> crp-holdtime <number> commands will produce the following error: %GATED-E-CFGPARSEERR, GateD configuration file had parse errors In addition, the X-Pedition may core dump. <i>This issue was resolved in E9.0.0.1.</i>	F2270

Quality of Service (QoS)	I.D.
The qos set ip command will fail if it is invoked using the port list parameter rather than the interface list parameter. Example: qos set ip IPFLOW-1 medium 10.12.3.2 10.4.3.2 any any any et.12.3 In this case, the default priority of low will be in effect for the IP flow "IPFLOW-1", rather than the specified medium priority. <i>This issue was resolved in E9.0.0.1.</i>	F1669

Rate-Limiting	I.D.
Using the all-ports option of the port parameter for the rate-limit <name> port-level input command will result in the following incorrect error message: %VLAN-E-STNOTFOUND, SmartTRUNK st.1929379840 not found <i>This issue was resolved in E9.0.0.1.</i>	F1596
If a module containing ports specified in a VLAN rate-limiting command is hot-swapped out, the rate-limiting policy created by this command will be lost. In addition, the command cannot be negated from the active configuration.	F1998
When using the burst-compensating option in an aggregate rate-limiting command, the X-Pedition will rate-limit to much lower rates than specified. <i>This issue was resolved in E9.0.0.1.</i>	F2065
Rate-limiting may not limit traffic at the specified rate when applied to flows generating "bursts" of traffic (for example, FTP).	F2180 F2226

Rate-Limiting	I.D.
When attempting to activate a rate-limit vlan command on a line card that is in aggregate rate-limiting mode, the execution will fail as expected. The error given, however, will be for the VLAN policy already existing ("%RL-E-VRL-EXISTS"), rather than the "%RL-E-NOTINFLOWMODE" error message expected.	F2436
Remote Network Monitor Device (RMON)	I.D.
The RMON packet capture tool will not capture packets on the ER16 if the data-control on parameter is not used.	F1718
The values displayed using the command rmon show etherstat <port> do not match the values displayed when querying the SNMP table etherStatsTable. <i>This issue was resolved in E9.0.0.1.</i>	F2222
Router Information Protocol (RIP)	I.D.
Due to routing enhancements in E9.0.0.0, if the rip set auto-summary enable exists in the Startup configuration in addition to the rip start and rip add interface commands, the X-Pedition will core dump. <i>This issue was resolved in E9.0.0.1.</i>	F2327
Serial Console	I.D.
When the serial console times out, the "CONS-W-IDLE_TIMEOUT" error message will not print to the screen until a key is pressed at the console, or until another system message is generated. NOTE: Although the message does not print to the screen, it will be time-stamped with the correct time of the timeout event. If a SYSLOG server is configured, the SYSLOG message will be sent immediately following the timeout event.	F2383
Simple Network Management Protocol (SNMP)	I.D.
SNMP traps are not properly sent when a Frame Relay DLCI (Data Link Connection Identifier) status changes, or when links go up or down.	F1873
The Entity MIB does not provide descriptions of OIDs or part numbers information for the following modules: <ul style="list-style-type: none"> ER16-HFX31-24 ER16-HFX39-24 ER16-GTX32-04 ER16-GTX32-08 SSR-GTX32-04 SSR-GSX31-04 SSR-GLX39-04 6SSRM-02 5SSRM-02 <i>This issue was resolved in E9.0.0.1.</i>	F2049
The Entity MIB will report incorrect descriptions for the X-Pedition 2000 and Matrix Routing Modules. This MIB reports that all modules exist for the X-Pedition 2000, regardless of the machine in which the module is installed. In addition, it will incorrectly report that its CPU is "Field Replaceable" (entPhysicalsFRU = True). <i>This issue was resolved in E9.0.0.1.</i>	F2126 F2168
SNMP set operations are not supported on the snmpCommunityTable, although the X-Pedition will allow a set to this table. The resulting snmpCommunityEntry, however, cannot be used to access the X-Pedition.	F2171

Simple Network Management Protocol (SNMP)	I.D.
When an SNMP packet containing a context name other than the empty string is received, the packet will not be accepted. Despite this rejection, the snmpUnknownContexts statistics counter will not increment.	F2182
ATM interfaces are not supported by all objects within the IF-MIB. Some objects within the IF-MIB will return inaccurate information when queried about an ATM interface, or will not properly set parameters related to ATM interfaces.	F2185
The snmp set mib command cannot disable the following MIBs associated with SNMPv3: <ul style="list-style-type: none"> VIEW-BASED-ACM-MIB USER-BASED-SM-MIB TARGET-MIB 	F2188
If an existing snmp set user command is modified, and the value of the engine-id option does not precisely match the original engine-id value (including letter case), multiple snmp set user commands will be entered in the configuration. It may not be possible to negate either of these commands from the configuration.	F2191
If SNMP users are not explicitly assigned to a group using the snmp set user-to-group command (after they have been created with the snmp set user command), then the X-Pedition may automatically assign them to one of the built-in SNMP groups. This assignment may not be correct. To avoid creating a potential security hole, all SNMP users should be explicitly assigned to an appropriate group. <i>This issue was resolved in E9.0.0.1.</i>	F2202
SNMP requires too much time to monitor environmental traps. With the introduction of the envCPUPhresholdExceeded and envLineModuleFailure traps, SNMP has become the largest consumer of CPU time, when the CPU is 99% idle. <i>This issue was resolved in E9.0.0.1.</i>	F2208
The Enable-mode command snmp show mib and the Configuration-mode command snmp set mib name will incorrectly show that the PPP-SEC-MIB is supported. Attempting to enable or disable the PPP-SEC-MIB will have no effect. <i>This issue was resolved in E9.0.0.1.</i>	F2214
The snmp show all command will report an incorrect value for SNMP agent status. In addition, if an SNMP community string is not configured, the snmp show all command will incorrectly report that the agent is disabled. <i>This issue was resolved in E9.0.0.1.</i>	F2250
SNMP will take longer than normal (3-10 seconds longer per WAN port) to return the results of a VLAN query in the ifTable if two or more WAN ports are running the same protocol and exist on the same VLAN.	F2272
The following SNMP Objects are not supported for RFC2496: <ul style="list-style-type: none"> dsx3InvalidIntervals dsx3LineLength dsx3LineStatusLastChange dsx3LineStatusChangeTrapEnable dsx3LoopbackStatus dsx3Channelization dsx3Ds1ForRemoteLoop 	F2274
When SNMP queries the ifName column of the ifXTable, the value of ifDescr is returned rather than the value of ifName. <i>This issue was resolved in E9.0.0.1.</i>	F2290
When querying an SNMP interface, SNMP may send its response from an IP address which is different than the address queried.	F2311
The X-Pedition will return an incorrect string value when an SNMP query is performed on any of the following Community strings: <ul style="list-style-type: none"> contSUCommStr contRWCommStr contROCommStr <i>This issue was resolved in E9.0.0.1.</i>	F2337

Simple Network Management Protocol (SNMP)	I.D.
POS cards report incorrect descriptions for the Entity MIB.	F2350
Certain invalid SNMP packets sent to the X-Pedition may cause the SNMP agent to leak relatively small blocks of memory (approximately 128 bytes). Such invalid packets should never be sent by a correctly implemented SNMP manager. <i>This issue was resolved in E9.0.0.1.</i>	F2393
On 12 February 2002, CERT CC (http://www.cert.org) announced serious vulnerabilities in the SNMP implementations of virtually every networking vendor's equipment. These vulnerabilities were discovered by a Finnish research group known as OUSPG, associated with Oulu University, and are documented in advisory CA-2002-03 (http://www.cert.org/advisories/CA-2002-03.html). See also http://www.enterasys.com/support/ . As a result of this announcement, it was determined that receipt of certain malformed SNMP PDUs may cause the X-Pedition to core dump.	F2447

SmartTRUNK	I.D.
The "Long frames >1518 bytes" field of the statistics show port-errors st.x command incorrectly displays "N/A" for SmartTRUNKs containing an active "T"-series Gigabit port.	F1765
When transmitting multicast traffic over an LACP SmartTRUNK, traffic may be transmitted across more than one link of the SmartTRUNK after multiple join and leave requests. <i>This issue was resolved in E9.0.0.1.</i>	F2131

Spanning Tree Protocol (STP)	I.D.
When the X-Pedition receives topology change notifications, it will cause the ARP cache to clear more entries than necessary. This may result in network connectivity problems due to an increase in ARP requests.	F2042

Statistics	I.D.
The statistics show most-active command does not accurately report the amount of CPU usage used by the tasks listed. NOTE: the amount of time reported for the Idle task is accurate.	F2320

System	I.D.
When displaying some tables, the "more" prompt may be displayed before a full page of data appears on the screen. <i>This issue was resolved in E9.0.0.1.</i>	F2008
When the X-Pedition is booted with Syslog enabled, a small memory leak will occur. <i>This issue was resolved in E9.0.0.1.</i>	F2247

Telnet	I.D.
The Enable-mode command cli terminal monitor on , when followed by the system kill telnet-session command on a looped Telnet session (a session from an X-Pedition back to itself), will cause the router to freeze. <i>This issue was resolved in E9.0.0.1.</i>	F2135
When a Telnet client sends data to the X-Pedition faster than the X-Pedition can process this data (as with an automated script), the Telnet input buffer will eventually overflow. This overflow may cause the X-Pedition to freeze. <i>This issue was resolved in E9.0.0.1.</i>	F2233
In E9.0.0.0, if an active Telnet session terminates unexpectedly while the X-Pedition is sending data to the Telnet client, the router may core dump. <i>This issue was resolved in E9.0.0.1.</i>	F2260

Terminal Access Controller Access Control System+ (TACACS+/RADIUS)	I.D.
If TACACS+ is authenticating a login from the Control Module's Serial Management Port, and Cisco Discovery Protocol traffic is received, a core dump may occur.	F2155
Virtual LAN (VLAN)	I.D.
VLAN names may be truncated in some error and status messages, as well as within the output of the rate-limit show and interface show commands. <i>This issue was resolved in E9.0.0.1.</i>	F2252
Virtual Router Redundancy Protocol (VRRP)	I.D.
When running multiple VRRP instances on a single interface, the virtual router may be allowed to start despite the fact that VRRP management entries cannot be installed. This issue occurs only when space in the Layer-2 tables is unavailable.	F2369
Web-Cache	I.D.
Web-cache health checking will not operate on ports specified through the web-cache set http-port command.	F2414
Wide Area Network (WAN)	I.D.
If compression and encryption are enabled on an MLP bundle, and a link in the bundle is disconnected, the traffic may not recover across the remaining link(s).	F1657
WAN ports fail to block Layer-3 frames when they are in STP-blocking state. In addition, WAN ports will reply ARP requests matching their peers' IP address, rather than forwarding them. This causes incorrect ARP entries to be added to the ARP cache. As a result, when 2 X-Peditions are connected with a WAN link, pings from one to another can still travel through, even when the WAN link is blocked by STP.	F2044
If compression and/or encryption is enabled on an MLPPP bundle, removing a port from that bundle (if the port is the active port for that bundle), may cause a failure in the recovery of the traffic crossing the bundle. <i>This issue was resolved in E9.0.0.1.</i>	F2288
The X-Pedition incorrectly allows a change of wan-encapsulation on a port that already has a wan-encapsulation defined via the port set wan-encapsulation command. Although an error message warns that this cannot be done, the command will still be replaced in the configuration line.	F2292

KNOWN RESTRICTIONS AND LIMITATIONS:

Known Restrictions and Limitations are sorted alphabetically by topic heading.

AppleTalk / Advanced Routing Engine (ARE)	I.D.
AppleTalk nodes fail to connect to the Advanced Routing Engine (ARE) or other AppleTalk nodes when connecting over an 802.1Q trunk port. The ARE sends a reply to the node's GetNetworkInfo packet with an incorrect VLAN ID. The first defined VLAN ID on the router will receive all network packets destined for AppleTalk VLANs.	F2457

Auto-Negotiation	I.D.
Disabling auto-negotiation on a Gigabit copper port (a port with an RJ-45 type connector) will cause loss of link. Auto-negotiation can be disabled in the following ways: From Enable mode: port auto-negotiate disable gi.x.x From Configure mode: port set gi.x.x auto-negotiation off	F1605

Broadcast Monitor (BMON)	I.D.
When BMON is enabled on a port, if the Layer-2 table for a port is repeatedly filled with incrementing source MAC addresses, the X-Pedition will be unable to remove enough entries to keep pace and will produce the following error message: %L2TM-E-DMND_DEL, could not remove enough entries from L2	F1414

Cabletron Discovery Protocol (CDP)	I.D.
The Container IP address in CDP packets is set to an incorrect value.	F1322
CDP identifies some adjacent device types (such as switches, routers, etc.) incorrectly.	F1324 F1750
If the CDP transmit frequency is altered from its default setting the hold time will not change. Hold time should always equal 3x the increment between transmits. CDP hold time will function normally at the default transmit frequency setting.	F1401
A CDP packet's "device-ip" field may be set incorrectly when transmitted.	F1475 F1748

Command Line Interface (Native)	I.D.
If the cli terminal monitor on command is used on more than one Telnet session at a time while error messages scroll across the terminal, the X-Pedition may core dump.	F2230

Dynamic Host Configuration Protocol (DHCP)	I.D.
The dhcp <scope_name> set ping-timeout <number> command is not currently supported.	F1680
After a reboot, a previously assigned DHCP lease address may be reassigned to another router.	F1976

Distance Vector Multicast Routing Protocol (DVMRP)	I.D.
On a <i>non</i> -T-series line card, it is recommended that access ports be used when running DVMRP, due to the fact that multicast packets can be replicated to only one IP VLAN in an 802.1Q trunk port. On a T-series line card, multicast packets will be replicated to all IP VLANs in an 802.1Q trunk port.	Hardware Limitation
When running Layer-2 IGMP snooping across a Q-trunk, DVMRP queries may only be sent across a single VLAN.	F1695

ER16	I.D.
IF DVMRP is configured over redundant links with IP interfaces on the line cards ER16-HSSI-02-CK, ER16-SERC-04-AA, or ER16-SERCE-04-A, duplicate multicast packets may be transmitted. If only one interface exists, duplicate packets will not occur.	F1773
IPX unicast packets may be routed incorrectly on some Gigabit ports when the ports are added to a SmartTRUNK. This issue occurs only on the ER16. Workaround: Move the SmartTRUNK to ports 3 and 4 on a 4-port module, or ports 4-8 on an 8-port module.	F2072

Flow Control	I.D.
Flow Control on X-Pedition Gigabit ports will not slow their link partners to meet the maximum receive rate.	F1683 H0031
The port set <port> auto-negotiation-flowctl off command will produce the same effect as the port set <port> auto-negotiation-flowctl both command.	F1832

Layer-2	I.D.
Under rare circumstances, Layer-2 traffic across a HSSI link connecting two X-Pedition routers may core dump one of those routers.	F1644

Layer-3	I.D.
Under extremely rare circumstances, the X-Pedition may core dump while attempting to add a Layer-3 flow entry.	F1731

Layer-4 Bridging	I.D.
Ports configured with flow-bridging mode and Layer-4 bridging are not supported on T-series modules. T-series modules can be identified using the system show hardware verbose command and inspecting the line following the "Service String" line. T-series modules use a SIPP. Using non-T-series modules with IPPs, or using the default address-based bridging mode will avoid this hardware restriction. The configuration commands that would be used to enable the flow-bridging and Layer-4 bridging combination are as follows: <pre>port flow-bridging <port-list> vlan enable l4-bridging on <vlan-name> vlan add port <port-list> to <vlan-name></pre>	F0760

Linux	I.D.
During occasions of extremely high traffic, Ethernet 10/100 modules may cease forwarding traffic. NOTE: This issue occurs in association with 10/100 HTX, HFX & HSX Ethernet modules using Linux.	F1967

Linux	I.D.
Workaround: Hot-swap out each affected card, and then hot-swap them back in.	
NetFlow	I.D.
The netflow clear statistics command does not clear all of the appropriate statistics.	F2054
Network Address Translation (NAT)	I.D.
<p>The X-Pedition's current ACL/NAT implementation does not make provisions for running standard or PASV FTP sessions across a translated interface when only ports 20 (FTP data port) and 21 (FTP command port) are open for communication. Because FTP will use other higher-numbered ports to establish TCP sessions, FTP sessions established across a NAT-translated interface may hang if these other TCP ports are not open for communication.</p> <p>Workaround: In order to allow FTP to establish a TCP session on higher-numbered ports, the NAT-associated ACL must be set up to allow incoming traffic from any port. When running this configuration, it is suggested that NAT secure-plus is enabled (nat set secure-plus on) in order to increase security and prevent private address leaks. For more information, please reference RFC 1579 ("Firewall-Friendly FTP").</p>	F2526
Network Management	I.D.
<p>The X-Pedition incorrectly allows the query of an SNMP community name having read/write privileges using an SNMP read-only community name.</p> <p>Example:</p> <p>Assume there are two community names defined ("privatemibaccess", having read/write privileges, and "r-only", having read only privileges). Using Mibtools or another MIB browser, if snmpCommunityName is queried using the "r-only" community name, both community names will be returned. The read/write community name ("privatemibaccess") should not be returned when using the read only ("r-only") community name.</p>	F1900
Entering the snmp set target command, and then assigning a parameter to the same target will cause the snmp set target command to error out. In addition, the line cannot be negated.	F2021
The SNMP agent will cease sending traps when the snmp set community command is commented-out of a configuration.	F2066
Changing the status of an SNMP target to "disable" (through the snmp set target xxx status disable command) will not disable the target. Instead, it will continue to send traps.	F2074
The snmp set trap-source command will not set the source interface. Instead, the traps will continue to display the default source IP address for the interface.	F2076
Open Shortest Path First (OSPF)	I.D.
If the command ospf set dead-interval <num> is issued with an argument greater than 32767, routing will stop and cannot be recovered without reboot.	F1828
The X-Pedition supports only 5 of the 16 OSPF traps defined by RFC 1850. For more information on these traps, see the "New Features and Enhancements" section of these release notes.	F1948

Point to Point Protocol (PPP)	I.D.
OSPF neighbors on POS/WAN PPP interfaces may not reach Full state when synchronizing their Link-State Databases after boot-up. This is due to the fact that OSPF believes that the interfaces are up, when actually the PPP protocol has not yet finished its negotiation. Workaround: Verify the "state" of the interface using the ospf show areas <area-id> or ospf show interfaces command. If a given interface is not at the Full state, the affected interfaces must be removed or commented-out from the OSPF configuration, and then added or commented back in.	F2347 F2386 F2545
Port	I.D.
When using the Enable mode port set command for a Gigabit port, the mtu parameter will not appear.	F1764
When using the port set mtu command, specifying the mtu value at 2070 or above will cause erroneous packet fragmentation, resulting in unexpected packet loss.	F2015
Port-Mirroring	I.D.
When mirroring an ACL under Layer-4 bridging mode, packets that the Layer-2 and IP/IPX table misses will not be mirrored to the destination port.	F1795
Power On Self-Test (POST)	I.D.
Entering the system set poweron-selftest quick command in the ER16's configuration causes the system to display the following errors during "DIAG BOOT TEST": <pre>%DDT-E-MEMORY_ALIASING, Memory error @ 0x70000000 ; Possible aliasing with: 0x70800000 %DDT-E-MEMORY_ALIASING, Memory error @ 0x70000004 ; Possible aliasing with: 0x70800004 %DDT-E-MEMORY_ALIASING, Memory error @ 0x70000008 ; Possible aliasing with: 0x70800008 %DDT-I-MEM_MAX_ERRORS, Max Errors Reached; Suppressing further errors for this test %DDT-I-MEM_INFO, \$Memory Failure : SOPP Memory MAIN DRAM [16775168 bytes] %DDT-E-SOPP_MEM_TEST, (Slot 5) : SOPP Memory Test : FAILED %DDT-E-GE_MODULE, GE Module (Slot 5) : FAILED</pre> These errors are incorrect and should be ignored.	F0619
Protocol Independent Multicast (PIM)	I.D.
When an IP interface is configured on a VLAN, and configured to run PIM, multicast data traffic exiting the interface will be sent on all ports belonging to the VLAN.	F2013
PIM-SM and PIM IGMP cannot be enabled on an interface including a SmartTRUNK.	F2025
Negation of the pim global start command may cause the X-Pedition to core dump; this may occur while OSPF maintains the route database.	F2106
While processing a route update, PIM will recalculate the Reverse Path back to every source contained within its multicast forwarding cache. If, during this recalculation, an entry is found that does not contain correct information, the X-Pedition will core dump while attempting to process it. The exact cause of the incorrect information is not known at this time.	F2153
DVMRP and PIM will not exchange route information or traffic when both exist on the same router.	F2161
OSPF-ASE routes and BGP routes may not import into the multicast Router Information Base (RIB) without a reboot.	F2162
No safeguard currently exists in order to prevent the configuration of PIM and DVMRP on the same interface. Results of such a configuration are unknown; it is most likely that DVMRP would gain mastership of the interface.	F2163

Protocol Independent Multicast (PIM)	I.D.
Because DVMRP and PIM-SM run in separate processes on the X-Pedition, PIM-SM cannot use existing IGMP functionality. A separate group of commands (all beginning with pim igmp) <i>must</i> be used with PIM. Current X-Pedition IGMP functionality may only be used with DVMRP.	F2164
The X-Pedition does not support more than one PIM sparse domain configuration.	F2165
PIM IGMP does not allow for static joins at this time.	F2166
If multiple WAN Virtual Circuits are added to a VLAN, and an interface is created from that VLAN, multicast traffic will be flooded out both VCs on the interface.	F2167
Simultaneously removing an interface configured for PIM, as well as its associated interface create command, may cause a core dump. Workaround: Remove the PIM configuration containing associated interfaces and save the active configuration. Remove the configuration containing associated interfaces.	F2181
Configuring PIM using the keyword all as an interface name may cause the X-Pedition to core dump if the pim add interface configuration commands and all currently configured interfaces are removed at the same time. Workaround: Negate all pim add interface configuration lines and save the active configuration. Then negate all interfaces and save the active configuration.	F2215

Quality of Service (QoS)	I.D.
The qos set l2 command has no effect when the low , medium , or high priority parameters are specified. Example: Entering the following command, qos set l2 name HIGHHP in-port-list et.7.2 dest-mac any priority high vlan 100 will not establish the priority of the L2 flow to high on vlan 100. Instead, the default priority of low will remain in effect for this flow. NOTE: The control priority parameter will function as expected.	F1950

Rate-Limiting	I.D.
Rate-limiting policies using the burst-compensating option are inaccurate for specified rate-limits over 8 Mbps for input and flow-aggregate policies, and over 11 Mbps for port-level and aggregate policies.	F2482

Remote Network Monitor Device (RMON)	I.D.
RMON must be enabled in the CLI configuration before RMON MIBs may be accessed via SNMP.	F0832
Rapidly querying the MIB object matrixSDOctets via SNMP will cause a core dump.	F2154
Hot-swapping out a SERC line card and then hot-swapping the same card back in will cause RMON to cease gathering statistics on that card.	F2227
Using the rmon set ports... command to change selected ports while the Netsight Element Manager RMON tool is monitoring those ports will cause the tool to cease displaying ports. This condition can be resolved by restarting either the Netsight Element Manager, or the X-Pedition.	F2234

Routing	I.D.
Using the gateway option rather than the interface option for the ip-router policy create rip-export-destination <name> command will result in all routes being exported to RIP, even when filters are applied with the ip-router policy export command.	F1617

Routing Information Protocol (RIP)	I.D.
RIPv2 will not export route tag information learned from other RIP routers.	F1681

SERIAL Module	I.D.
Ports on SERIAL modules that have not been configured with the port set command before their cables are connected may not process received data when an unused port receives status changes from a CSU/DSU (Channel Service Unit/Data Service Unit). Workaround: hot-swap out and hot-swap back in the affected module with the system hotswap command.	F1958

Simple Network Management Protocol (SNMP)	I.D.
Accessing the ospfExtLsdbLimit MIB with a "get" will return only a "no limit" response. Attempting to "set" this value is not allowed.	F1693
The snmp show trap command will not display any updated target information unless the X-Pedition is rebooted.	F2068

Spanning Tree Protocol (STP)	I.D.
X-Peditions with System Firmware version E8.2.0.3 and above will switch VLAN-tagged BPDUs received on a trunk port as normal traffic rather than processing it. Since older X-Pedition System Firmware versions are known to incorrectly forward VLAN-tagged BPDUs when STP is disabled, Enterasys Networks recommends upgrading the X-Peditions on both sides of a Q-trunk connection to System Firmware version E8.2.0.3 or above. If this is not feasible, STP or BPDU filtering should be enabled on ports connected to possible BPDU sources.	F1726
WAN ports in the STP-blocking state will fail to block incoming pings destined for the router. This causes Layer-3 and ARP entries to be inserted incorrectly on both sides of the WAN link.	F2044
Traffic will not recover when Frame-Relay connections with a lower STP path cost are restored.	F2141
The Configure-mode command stp enable port allows the inclusion of an ATM port or VCL despite the fact that STP functionality is not supported on ATM connections. Enabling STP on an ATM port will block that ATM port; therefore, it is not recommended.	F2142

Statistics	I.D.
The statistics show port-errors command may incorrectly display errors for the input VLAN drop-frame counter. This may occur on inactive 10/100 ports when the X-Pedition receives BPDUs on active ports. This does not affect the X-Pedition's performance.	F1202
The statistics show port-stats et.x.x command may display inaccurate statistics for ports in the following fields: <ul style="list-style-type: none"> Switched frames (bridging) Bridged bytes 	F1513

System	I.D.
When using the copy command to copy files to or from an RCP-server on an X-Pedition configured with a user login password (through the system set password login command), the System Firmware will incorrectly utilize the generic login ID "user" for the RCP-server login ID, rather than prompting for a valid login ID.	F1850

System	I.D.
<p>Entering the system promimage upgrade command may incorrectly produce the following error:</p> <p style="padding-left: 40px;">%HBT-W-BACKUPFAILURE, backup CM in slot 'CM/1' is not operating</p> <p>NOTE: In this instance, the backup CM has not failed.</p>	F2177

Terminal Access Controller Access Control System + (TACACS+)/RADIUS	I.D.
<p>If the X-Pedition is unable to connect to a TACACS+ server, the router will execute "last-resort". "Last-resort" is configured with the following command:</p> <p style="padding-left: 40px;">tacacs-plus set last-resort <ucceed fail password></p> <p>The X-Pedition will be unable to connect to a TACACS+ server if the interface connecting the server is not active.</p>	F1110
<p>The source ID for TACACS+ must be an IP address. Names are not accepted.</p>	F1192
<p>If the X-Pedition is configured for TACACS+ or RADIUS system event accounting, some system events may not be logged to the Accounting, Authorization, and Authentication (AAA) server.</p> <p>Workaround: Rather than configuring TACACS+ or RADIUS for system event accounting, use the X-Pedition's SYSLOG facility to log all system events to a SYSLOG server.</p>	F1255
<p>During the hot-swap process, any accounting messages sent to a TACACS+ or RADIUS server will be dropped.</p>	F2239

X-Pedition 8600	I.D.
<p>With the following conditions, some rare traffic patterns may cause a loss of transmit ability on a line module:</p> <ul style="list-style-type: none"> • At least two 2-port gigabit modules exist in logically adjacent slots (i.e. 1 and 2, 2 and 3, etc.). • At least four channels in the X-Pedition oversubscribe simultaneously. 	F1077 F2085 H0012

INFORMATIONAL NOTES AND STATEMENTS:

This section contains items previously listed in the Known Restrictions and Limitations section. These items are not limitations, but informational statements and notes about the firmware and hardware features of the X-Pedition products.

The following tables lists the designations used to denote where information on the statement is now located. If there is no manual designation, the information has not yet been moved to the correct reference materials. Once moved, the manual location will be noted.

Book	Designation
Getting Started Guide (model specific)	GSG
X-Pedition Error Reference Manual	ERM
X-Pedition Native CLI Reference Manual	CLI
X-Pedition User Reference Manual	URM

6SSRM-02	Manual
Because important changes were introduced to Spanning Tree in E8.0.1.0 to prevent loops and backplane ports from blocking, a minimum System Firmware version of E8.0.1.0 is recommended for the 6SSRM-02 in a Matrix E7. The new changes are incorporated in firmware version 04.06.05 for the 6E2xx-xx, 6H2xx-xx, 6E3xx-xx, 6H3xx-xx, and 6G3xx-xx, and firmware version 04.11.06 for the 6E1xx-xx, 6H1xx-xx, and 6M1xx-xx.	

AppleTalk / Advanced Routing Engine (ARE)	Manual
The ARE module cannot be installed into slots 0 or 1 on an X-Pedition 8000. In addition, it cannot be installed into slots 0, 1, or 12-15 on an X-Pedition 8600. Attempting to hot-swap this module into any of those slots may cause the router to core dump.	

Bridging	Manual
When using line cards introduced prior to the "AA" series, SNA/DLC/NetBIOS traffic may not be properly bridged across the X-Pedition. The issue in bridging DLC packets occurs where the length field within an IEEE 802.3 frame indicates less than 46 bytes of data. The X-Pedition removes the length field information of incoming IEEE 802.3, 802.2, and Ethernet SNAP packets and recalculates the field prior to retransmission. Consequently, this calculation is based on the entire length of the data field. A packet entering the X-Pedition with a length field indicating a data field of less than 46 bytes will exit with the length field recalculated incorrectly. This can be a problem with LLC2 and legacy IPX applications. Typically, such packets exist only in SNA and NetBIOS/NetBEUI environments.	

Fiber Distributed Data Interface (FDDI)	Manual
Changing the station mode on a FDDI port will negate all previously executed FDDI commands.	

Routing	Manual
<p>Aggressive internal testing has uncovered a weakness in some configurations containing static routes. Configurations using only dynamic routing are unaffected.</p> <p>Erroneously configured static routes may produce a routing loop. As a result, excessive CPU utilization can occur when an improperly configured upstream router sends ICMP redirect messages to a downstream router. It appears this problem has been present in the Enterasys Networks System Firmware since the 2.1.0.0 release.</p> <p>Routing protocols (e.g. OSPF, BGP, RIP) automatically discover and correct any loops in dynamic routing configurations. In these cases, no excessive CPU utilization will occur.</p>	

COMPLIANCE SUPPORT:

Compliance Level	Compliant
Year 2000	Yes

IEEE STANDARDS MIB SUPPORT:

Standard	Title
IEEE 802.3ad	LACP

IEEE STANDARDS SUPPORT:

Standard	Title
IEEE 802.1D	Spanning Tree
IEEE 802.1p	Traffic Prioritization
IEEE 802.1Q	VLAN Trunking
IEEE 802.1w	Rapid Spanning Tree
IEEE 802.3	10 Mbps Ethernet
IEEE 802.3ad	LACP (Link Aggregation)
IEEE 802.3u	100BASE-T Ethernet
IEEE 802.3x	Full Duplex Ethernet
IEEE 802.3z	1000 Mbps Ethernet

IETF STANDARDS SUPPORT:

RFC No.	Title
RFC 1058	RIP v1
RFC 1075	DVMRP
RFC 1105	BGP
RFC 1157	SNMPv1
RFC 1163	BGP-2
RFC 1256	ICMP Router Discover Message
RFC 1265	BGP Protocol Analysis
RFC 1267	BGP-3
RFC 1293	Inverse ARP
RFC 1332	PPP Internet Protocol Control Protocol (IPCP)
RFC 1349	Type of Service in the Internet Protocol Suite
RFC 1397	BGP Default Route Advertisement
RFC 1483	Multiprotocol Encapsulation over ATM Adaptation Layer 5
RFC 1490	Multiprotocol Interconnect over Frame Relay
RFC 1519	CIDR
RFC 1552	The PPP Internetwork Packet Exchange Control Protocol (IPXCP)
RFC 1570	PPP LCP Extensions
RFC 1583	OSPF v2
RFC 1631	IP Network Address Translator

RFC No.	Title
RFC 1638	PPP Bridging Control Protocol (BCP)
RFC 1657	BGP-4 Definitions of Managed Objects
RFC 1661	PPP (Point-to-Point Protocol)
RFC 1662	PPP in HDLC-like Framing
RFC 1723	RIP v2
RFC 1771	BGP-4
RFC 1772	Application of BGP in the Internet
RFC 1812	Router Requirements
RFC 1966	BGP Route Reflection
RFC 1990	PPP Multi-Link Protocol
RFC 1997	BGP Communities Attribute
RFC 2131	Dynamic Host Configuration Protocol
RFC 2138	RADIUS
RFC 2225	Classical IP and ARP over ATM
RFC 2236	Internet Group Management Protocol, Version 2
RFC 2338	VRRP
RFC 2391	Load Sharing using IP Network Address Translation (Load Balance)

IETF STANDARDS MIB SUPPORT:

RFC No.	Title
RFC 1213	MIB-2
RFC 1253	OSPF v2 MIB
RFC 1471	PPP LCP (Link Control Protocol)
RFC 1472	PPP Security Protocol
RFC 1473	PPP IP NCP (Network Control Protocol)
RFC 1474	PPP Bridge NCP
RFC 1493	Definitions of Managed Objects for Bridges
RFC 1512	FDDI MIB
RFC 1595	SONET / SDH MIB
RFC 1643	Ethernet Like Interface MIB
RFC 1657	BGP4 MIB
RFC 1695	ATM MIB
RFC 1724	RIPv2 MIB
RFC 1742	AppleTalk Management Information Base II
RFC 1850	OSPF MIB
RFC 1907	SNMP v2 MIB
RFC 2011	Internet Protocol (IP) MIB using SMIv2
RFC 2012	Transmission Control Protocol (TCP) MIB using SMIv2
RFC 2013	User Datagram Protocol (UDP) MIB using SMIv2
RFC 2021	Remote Network Monitoring Version 2 (RMON 2)
RFC 2096	IP Forwarding MIB
RFC 2115	Frame Relay DTE using SMIv2
RFC 2358	Ethernet-like Interface Types MIB
RFC 2495	E1 / DS1 MIB
RFC 2496	E3 / DS3 MIB
RFC 2571	SNMP Framework MIB
RFC 2572	SNMP Message Processing and Dispatching MIB
RFC 2573	SNMP Target and Notifications MIBs
RFC 2574	SNMP User-Based Security Model MIB
RFC 2575	SNMP View-Based Access Control Model MIB

RFC No.	Title
RFC 2576	SNMP Community and Target Extensions MIBs
RFC 2618	Radius Authentication Client
RFC 2668	IEEE 802.3 Medium Attachment Units (MAUs) MIB
RFC 2674	IETF Q MIB for Bridge with Traffic Classes, Multicast Filtering and VLAN Extension
RFC 2737	Entity MIB
RFC 2790	Host Resources MIB
RFC 2819	Remote Network Monitoring (RMON) Management Information Base
RFC 2863	Interfaces Group using SMIv2

IETF EXPERIMENTAL MIB SUPPORT:

Function	Draft
DVMRP	Draft 4
IGMP	Draft 5
VRRP	Draft 9

IETF STANDARDS SNMP TRAP SUPPORT:

RFC No.	Title
RFC 1157	linkDown, linkUp, authenticationFailure Traps
RFC 1493	newRoot, topologyChange Traps

FRAME RELAY STANDARD SUPPORT:

Standard	Title
Frame Relay Forum FRF.1.1	User-to-Network (UNI) Implementation Agreement
Frame Relay Forum FRF.3.1	Multiprotocol Encapsulation Implementation Agreement
ITU-T Q.922/ANSI T1.618	ISDN Core Aspects of Frame Relay Protocol
ITU-T Q.933	Access Signaling Annex A
ITU-T I.122/ANSI T1S1	Standards-Based Frame Relay Specification
ITU-T Annex D/ANSI T1.617	Additional Procedures for PVCs Using Unnumbered Information Frames

FDDI STANDARD SUPPORT:

Standard	Title
ANSI X3T9.5	Fiber Distributed Data Interface (FDDI)
ANSI X3T9.5/84-49 Rev 7.2	FDDI Station Management (SMT)
ANSI X3.139-1987	FDDI Media Access Control (MAC)
ANSI X3.148-1988	FDDI Physical Layer Protocol (PHY)
ANSI X3.166-1990	FDDI Physical Medium Dependent (PMD)

ENTERASYS NETWORKS PRIVATE ENTERPRISE MIB SUPPORT:

Title	Description
NOVELL-IPX-MIB	Novell Netware
CTRON-SSR-HARDWARE-MIB	Device specific hardware objects
CTRON-SSR-POLICY-MIB	L2 filters, L3 ACL set/get ability
CTRON-SSR-SERVICE-MIB	Status of major subsystems
CTRON-SSR-CAPACITY-MIB	New with 3.0 use for performance/capacity
CTRON-SSR-CONFIG	Retrieve/send configuration file via tftp
NOVEL-RIP-SAP-MIB	Novell Netware RIP SAP
CT-CONTAINER-MIB	Cabletron container MIB
CTRON-CHASSIS-MIB	Cabletron chassis MIB (6SSRM-02 Only)
DEC-ELAN-MIB	FDDI Extensions
CTRON-CDP-MIB	Cabletron Discovery Protocol MIB
CTRON-DOWNLOAD-MIB	Cabletron Download MIB

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