



January 2026

Extreme TPVM 4.7.12

Release Notes

Supporting Extreme Routing and Extreme Switching
SLX 9740, SLX 9640, SLX 9540, SLX 9250, SLX 9150,
Extreme 8820, Extreme 8720, and Extreme 8520

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Document History

Version	Summary of changes	Publication date
REV AA	Initial version for 4.7.12	January 2026

Preface

Getting Help

If you require assistance, contact Extreme Networks using one of the following methods:

- [Extreme Portal](#): Search the GTAC (Global Technical Assistance Center) knowledge base; manage support cases and service contracts; download software; and obtain product licensing, training and certifications.
- [The Hub](#): A forum for Extreme Networks customers to connect with one another, answer questions, and share ideas and feedback. This community is monitored by Extreme Networks employees but is not intended to replace specific guidance from GTAC.
- [Call GTAC](#): For immediate support, call (800) 998 2408 (toll-free in U.S. and Canada) or 1 (408) 579 2826. For the support phone number in your country, visit: www.extremenetworks.com/support/contact.

Before contacting Extreme Networks for technical support, have the following information ready:

- Your Extreme Networks service contract number or serial numbers for all involved Extreme Networks products.
- A description of the failure.
- A description of any actions already taken to resolve the problem.
- A description of your network environment (such as layout, cable type, other relevant environmental information).
- Network load at the time of trouble (if known).
- The device history (for example, if you have returned the device before, or if this is a recurring problem).
- Any related RMA (Return Material Authorization) numbers.

Subscribe to Service Notifications

You can subscribe to email notifications for product and software release announcements, Vulnerability Notices, and Service Notifications.

1. Go to www.extremenetworks.com/support/service-notification-form.
2. Complete the form. All fields are required.
3. Select the products for which you want to receive notifications.

Note: You can change your product selections or unsubscribe at any time.

4. Select **Submit**.

Extreme Resources

Visit the Extreme website to locate related documentation for your product and additional Extreme resources.

White papers, data sheets, and the most recent versions of Extreme software and hardware manuals are available at www.extremenetworks.com. Product documentation for all supported releases is available to registered users at <https://www.extremenetworks.com/support/documentation/>.

Document Feedback

The Information Development team at Extreme Networks has made every effort to ensure the accuracy and completeness of this document. We are always striving to improve our documentation and help you work better, so we want to hear from you. We welcome all feedback, but we especially want to know about:

- Content errors, or confusing or conflicting information.
- Improvements that would help you find relevant information in the document.
- Broken links or usability issues.

You can provide feedback in the following ways:

- In a web browser, select the feedback icon and complete the online feedback form.
- Access the feedback form at <http://www.extremenetworks.com/documentation-feedback-pdf/>.
- Email us at documentation@extremenetworks.com.

Provide the publication title, part number, and as much detail as possible, including the topic heading and page number if applicable, as well as your suggestions for improvement.

Release Overview

Release TPVM 4.7.12 provides the following features:

Security Update

- Security updates are included up to December 11th, 2025.

New Features

- The hardening script is updated to latest version 0.97.9.

Common Vulnerabilities and Exposures (CVEs) Addressed in this release

The following CVEs are addressed in this release:

CVE	Module
CVE-2025-11412	binutils
CVE-2025-11413	binutils
CVE-2025-11414	binutils
CVE-2025-11494	binutils
USN-7919-1	Binutils
CVE-2025-20109	INTEL microcode
CVE-2025-22839	INTEL microcode
CVE-2025-22840	INTEL microcode
CVE-2025-22889	INTEL microcode
CVE-2025-21090	INTEL microcode
CVE-2025-20053	INTEL microcode
CVE-2025-24305	INTEL microcode
CVE-2025-26403	INTEL microcode
CVE-2025-32086	INTEL microcode
CVE-2025-11412	libbinutils /libctf
CVE-2025-11413	libbinutils /libctf
CVE-2025-11414	libbinutils /libctf
CVE-2025-11494	libbinutils /libctf
CVE-2025-58436	libcups2
USN-7897-1	libcups2
CVE-2025-8291	libpython3.10*
CVE-2025-6075	libpython3.10*
USN-7886-1	libpython3.10*
CVE-2024-53218	LINUX kernel
CVE-2024-47691	LINUX kernel
CVE-2025-39993	LINUX kernel
CVE-2025-66418	python3-urllib3
USN-7927-1	python3-urllib3

Changes in Behavior

The following are the behavioral changes for TPVM 4.7.12.

- None

Hardware and Software Support

- TPVM 4.7.12 supports the following hardware platforms: SLX 9150, SLX 9250, SLX 9540, SLX 9640, SLX 9740, Extreme 8520, Extreme 8720, and Extreme 8820.
- Minimum supported SLX-OS version for TPVM 4.7.12 is SLX-OS 20.6.3a.
- Full Install is required for upgrade and downgrade between TPVM versions lower than 4.7.0 and TPVM version 4.7.12.

Note: Releases prior to TPVM 4.6.13 are not supported as per baseline-free upgrade.

Limitations and Restrictions

- Incremental upgrade is not supported between TPVM versions lower than 4.7.0 and TPVM version 4.7.12.
 - Example: Incremental upgrade and downgrade between TPVM 4.6.16 and 4.7.12 versions is not supported. If a user attempts it, the following error message is displayed.
Error: As Ubuntu LTS version is upgraded between the TPVM versions, incremental upgrade is not supported.
- TPVM incremental upgrade sometimes takes close to 30 minutes to complete. This time depends on the number of packages being updated. A temporary fix is added in XCO version 3.8.2 to avoid this issue.

Unsupported characters in TPVM passwords

The following characters are not supported in TPVM passwords.

- & (ampersand)
- ! (exclamation mark)
- \ (backslash)
- ' (single quote)

Upgrading TPVM to 4.7.12

- Full Install is supported from version lower than 4.7.0
- Incremental upgrade is supported from version 4.7.0
- Minimum version requirements:
 - SLX-OS 20.6.3a
- Upgrade procedure
 - Step 1: Upgrade SLX-OS current version to SLX-OS 20.6.3a or above.
 - Step 2: Full upgrade TPVM to 4.7.12 if the current running TPVM version is lower than 4.7.0.

TPVM package list

The contents of the TPVM package list are available under the TPVM release folder on the Support Portal (in the form of a JSON file). The JSON file can be found here:

Below is a sample of the JSON file:

```
{  
  "product": "TPVM",  
  "version": "4.7.12",  
  "packages": [  
    {  
      "package": "accountsservice",  
      "version": "0.6.45-1ubuntu1.3",  
      "architecture": "amd64",  
      "description": "query and manipulate user account information"}  
  ],  
  ....  
}
```

tpvm_sec_upgrade.sh script

The 'tpvm_upgrade.sh' script is deprecated. Since Ubuntu's LTS version has been upgraded, it is necessary to perform a full upgrade.

This script cannot be used to upgrade to TPVM 4.7.12.