

# Adtran

## Adtran Switch Engine (ASE)

### 20.12-4 Release Notes

Release Notes

6AMCRN20124-40B

January 2024



## To the Holder of this Document

The contents of this manual are current as of the date of publication. Adtran reserves the right to change the contents without prior notice.

## Trademark Information

“Adtran” and the Adtran logo are registered trademarks of Adtran, Inc. Brand names and product names included in this document are trademarks, registered trademarks, or trade names of their respective holders.

## Disclaimer of Liability

The information or statements given in this document concerning the suitability, capacity, or performance of the mentioned hardware or software products are given “as is”, and any liability arising in connection with such hardware or software products shall be governed by Adtran’s standard terms and conditions of sale unless otherwise set forth in a separately negotiated written agreement with Adtran that specifically applies to such hardware or software products.

To the fullest extent allowed by applicable law, in no event shall Adtran be liable for errors in this document for any damages, including but not limited to special, indirect, incidental or consequential, or any losses, such as but not limited to loss of profit, revenue, business interruption, business opportunity or data, that may arise from the use of this document or the information in it.

Be advised that certain security risks are inherent in the use of any telecommunications or networking equipment, including but not limited to, toll fraud, Denial of Service (DoS) attacks, loss or theft of data, and the unauthorized or illegal use of said equipment. ADTRAN OFFERS NO WARRANTIES, EITHER EXPRESSED OR IMPLIED, REGARDING THE PREVENTION, DETECTION, OR DETERRENCE OF TOLL FRAUD, NETWORKING ATTACKS, OR UNAUTHORIZED, ILLEGAL, OR IMPROPER USE OF ADTRAN EQUIPMENT OR SOFTWARE. THEREFORE, ADTRAN IS NOT LIABLE FOR ANY LOSSES OR DAMAGES RESULTING FROM SUCH FRAUD, ATTACK, OR IMPROPER USE, INCLUDING, BUT NOT LIMITED TO, HUMAN AND DATA PRIVACY, INTELLECTUAL PROPERTY, MATERIAL ASSETS, FINANCIAL RESOURCES, LABOR AND LEGAL COSTS. Ultimately, the responsibility for securing your telecommunication and networking equipment rests with you, and you are encouraged to review documentation regarding available security measures, their configuration and implementation, and to test such features as is necessary for your network.



901 Explorer Boulevard  
P.O. Box 140000  
Huntsville, AL 35814-4000  
Phone: (256) 963-8000

Copyright © 2024 Adtran, Inc.  
All Rights Reserved.

# Table of Contents

<b>1. Introduction</b> .....	<b>4</b>
<b>2. Supported Platforms</b> .....	<b>4</b>
<b>3. Features and Enhancements</b> .....	<b>4</b>
<b>4. Fixes</b> .....	<b>5</b>
<b>5. Errata</b> .....	<b>6</b>
<b>6. System Notes</b> .....	<b>7</b>
<b>7. Warranty and Contact Information</b> .....	<b>7</b>

# 1. Introduction

Release 20.12-4 is a major system release that adds new features and addresses customer issues that were uncovered in previous releases for the Adtran Switch Engine (ASE) switches.

This release is generally available code. Results obtained during internal testing have been evaluated and the code has been determined to be ready for general availability. Caveats discovered during testing but not addressed in this build are listed in [Errata on page 6](#).

Configuration guides, white papers, data sheets, and other documentation can be found on Adtran's Support Community, <https://supportcommunity.adtran.com>. The contents of these release notes will focus on the platforms listed in [Supported Platforms on page 4](#).

## 2. Supported Platforms

[Table 1](#) lists the platforms that are supported in ASE firmware release 20.12-4.

**Table 1. Supported Platforms**

Platform	Part Number
NetVanta 1760-8F	17101762F1
NetVanta 1760-12F	17101763F1
NetVanta 1570-24-370W	17101574PF1
NetVanta 1570-48-740W	17101578PF2

## 3. Features and Enhancements

This section highlights major features, commands, and behavioral changes for all products running ASE version 20.12-4:

- BSW-24 Added an option for **deselecting** and **selecting all** ports in the **QoS > QCE Configuration** GUI menu.
- BSW-195 Added support for classless static routes via Option 121 from a WAN DHCP server.
- BSW-355 Updated the ASE Web GUI to display port configuration options when a port is selected from the product image in the GUI.
- BSW-356 Updated the ASE Web GUI to only display configured VLANs on the **VLAN Membership** page, rather than displaying all possible VLANs allowed on the system.
- BSW-545 Updated the color scheme in the ASE Web GUI.
- BSW-600 Added support for RADIUS CoA VLAN assignments.
- BSW-601/  
BSW-702 Updated the SSH Dropbear version to 202.82 to address SSH vulnerabilities discovered via Nessus scan and to address SSH use issues with other devices.
- BSW-646 Updated the default configuration information so that they match across all ASE platforms.
- BSW-647 Added support for ASE switches to report LLDP neighbor information to n-Command MSP.
- BSW-651 Updated the ASE system to support checksum message processing between ASE devices and n-Command MSP. This update allows configuration changes to be saved properly when using n-Command to manage ASE devices.

- BSW-659 Updated the system description used when identifying the device model via Link Layer Discovery Protocol (LLDP) to the following format: **System Description: [Model], [Version], [Date & Time]**.

## 4. Fixes

This section highlights major bug fixes in ASE release 20.12-4.

- BSW-343 Fixed an issue in which the **show auto-link** command would always report a status of CONNECTED, no matter the state of the network configuration or connection.
- BSW-344 Fixed an issue in which the **show auto-link** command would display time settings in GMT regardless of the timezone configured on the device.
- BSW-500 Fixed an issue in which ACE entries with the **Frame-Type IP** values entered in the GUI would not be displayed.
- BSW-525 Fixed an issue in which the SNMP server would remain enabled even when the **no snmp-server** command was issued.
- BSW-539 Fixed an issue in which SSH connections from the ASE device to multiple other devices would not function properly.
- BSW-576 Fixed an issue in which ASE devices were sending the wrong device part number information to n-Command MSP.
- BSW-579 Fixed an issue in which the **CPU**, **Remote**, and **VLAN** options were not configurable via the GUI for the **Port Mirroring** feature.
- BSW-583 Fixed an issue in which SVL configuration was only available via the CLI, and not present in the GUI.
- BSW-584 Fixed an issue in which the **Cable Diagnostics** feature was still configurable on NetVanta 1760 devices, even though those devices do not support Ethernet interfaces. The **Veriphy** configuration options (both CLI and GUI) have been removed from the NetVanta 1760 device.
- BSW-592 Fixed an issue where ASE devices reported the non-configured VLANs to the SNMP server, causing the server to hang or crash.
- BSW-608 Fixed an issue in which the **LLDP-MED-Neighbor** GUI menu did not display information properly.
- BSW-609 Fixed an issue in which the timezone setting, when configured via the GUI, was not applied correctly to the ASE device.
- BSW-610 Fixed an issue in which the CLI help for the ip name-server command was incorrect and reported the wrong default value of **0**. The CLI help has been updated to reflect that 3 DNS server entries are supported on the ASE device (entries **1** to **3**), with **1** being the default value.
- BSW-614 Fixed an issue in which the voice VLAN configuration specified in the CLI was not displayed correctly in the GUI.
- BSW-615 Fixed an issue in which the Trap Event Severity configuration for the device fan was not available via the CLI.
- BSW-616 Fixed an issue in which, when users were connected via SSH and then configured the banner on the ASE device, they could be logged out.
- BSW-618 Fixed an issue where the saved configuration file would fail to restore back to the ASE device.
- BSW-652 Fixed an issue in which SNMP polling would not display any configured port descriptions.
- BSW-654 Fixed an issue in which mirroring configuration changes specified in the ASE device GUI could return a 500 Internal error and would not apply the configuration.

- BSW-663 Fixed an issue where the ASE device would fail to authenticate clients to the NPS Windows server.
- BSW-667 Fixed an issue in which the ASE device could append the digits of the device MAC address to the device hostnames and include it in DHCP requests.
- BSW-668 Fixed an issue in which information for ports 1 and 2 were missing in the **SFP** port drop-down GUI menu.
- BSW-688 Fixed an issue in which privilege levels for every group could not be configured in the GUI.
- BSW-696 Fixed an issue in which the **no switchport hybrid allowed vlan** command would alter the trunk configuration on the port in addition to removing the hybrid configuration. The port configuration is no longer altered when this command is issued, but instead, only the hybrid configuration is removed.
- BSW-712 Fixed an issue in which the icons appearing in the ASE GUI were not easily visible; the icon color has been changed to white for greater contrast and visibility.
- Bug 22775 Fixed an issue in which configuring ports to use 10G mode would still be accepted even when using a 1G copper SFP.
- Bug 22966 Fixed an issue in which VLAN 1 would not appear in the output of the **running-config** command even when a trunk was configured to allow VLAN 1.
- Bug 22968 Fixed an issue in which, when using 802.1x authentication, an incorrect RADIUS Access-Request packet could be sent.
- Bug 22988 Fixed an issue in which, when using 802.1x authentication, a client could not be redirected to a guest VLAN when the RADIUS server was unresponsive.

## 5. Errata

The following is a list of errata that still exist in ASE release 20.12-4.

- BSW-135 The LLDP hold timer parameter is described as a unit of seconds in the ASE device CLI, instead of a number of times, as indicated in the device GUI.
- BSW-191 In some cases, CLI editing can still be performed even when the CLI editing features are disabled.
- BSW-260 Spanning-tree may incorrectly prevent Link Aggregation Group (LAG) links from becoming active when **max-bundle** is set to **1**. **Workaround:** Set the **max-bundle** to a value higher than **1**.
- BSW-544 When using older algorithms for SSH/telnet, the SSH function on ASE devices may not function correctly. **Workaround:** Upgrade the ASE device to use the latest SSH/telnet handshake method.
- BSW-731 In some cases, Ubuntu-based supplicants that are switched to guest VLANs upon an authorization failure from the authentication server cannot access the Internet or network.
- BSW-733 When configuring SNMP traps on ASE devices, the Hostname of the device may be inadvertently affected.
- BSW-739 In some cases, the intercommunication between the line console and VTY sessions is not working as expected.
- BSW-743 In some cases, the configured speed of an interface is not displayed in the output of the **interface status** command.
- BSW-744 In some cases, the cable diagnostics **Link Status** is not updated properly in the ASE GUI.
- BSW-745 In some instances, the **cablediag interface <interface>** command will not function properly and will produce an error.

- BSW-747 When using OSPF, if the router ID and the priority are tied, the election process does not always continue with the interface address as expected.

## 6. System Notes

The following are important notes about the ASE 20.12-4 release:

- For ASE system compatibility with n-Command MSP, the ASE device must be running version 20.12-3 or later and n-Command MSP must be running 11.3.5-17373 or later.
- Due to key exchange algorithms and encryption ciphers, telnet/SSH access for the NetVanta 1760-12F may be limited when accessing non-Adtran devices using this feature. In some cases, when logged into an ASE device via telnet, and then using SSH to access a non-Adtran device, the connection may be successful but limited to enable mode access on the non-Adtran device.
- On a NetVanta 1760-12F, if upgrading from ASE 20.12-1 to 20.12-4, the changes included in 20.12-3 for SNMP server enable/disable functions, AAA authentication, or auto-link configurations may cause issues if these features have been configured previously. If problems are encountered after a device upgrade to 20.12-4, it is recommended to reload the device with the factory default settings.
- When upgrading the ASE device to 20.12-4, you may need to clear your browser cache after the upgrade to ensure that the GUI changes are displayed properly.

## 7. Warranty and Contact Information

Warranty information can be found online by visiting [www.adtran.com/warranty-terms](http://www.adtran.com/warranty-terms).

To contact Adtran, choose one of the following methods:

Department	Contact Information	
<b>Customer Care</b>	From within the U.S.:	(888) 4ADTRAN ((888)-423-8726)
	From outside the U.S.:	+1 (256) 963-8716
<b>Technical Support</b>	Support Community:	<a href="http://www.supportcommunity.adtran.com">www.supportcommunity.adtran.com</a>
	Product Support:	<a href="http://www.adtran.com/support">www.adtran.com/support</a>
<b>Training</b>	Email:	<a href="mailto:training@adtran.com">training@adtran.com</a>
	Adtran University:	<a href="http://www.adtran.com/training">www.adtran.com/training</a>
<b>Sales</b>	For pricing and availability:	1 (800) 827-0807