



## 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

## Contents

- 1. Introduction ..... 4**
- 2. Supported Platforms ..... 4**
  - Table 1. Supported SDG Platforms ..... 4
  - Table 2. Supported Voice Soft Switches..... 4
- 3. System Notes..... 5**
  - SDG SFP Support..... 5
  - SDG WiFi Support..... 5
  - SDG Device Upgrades..... 5
  - Home Analytics Support..... 6
- 4. Features and Enhancements ..... 6**
  - Features and Enhancements in 12.7.2.1 ..... 6
  - Previous Feature and Enhancements..... 6
  - Features and Enhancements in 12.6.5.1 ..... 6
  - Features and Enhancements in 12.6.3.1 ..... 6
- 5. Fixes ..... 6**
  - Fixes in 12.7.2.1 ..... 6
  - Previous Build Fixes..... 6
  - Fixes in 12.6.5.1 ..... 6
  - Fixes in 12.6.3.1 ..... 6
- 6. Errata ..... 7**
- 7. Upgrade Instructions..... 8**
  - Step 1: Upgrading Firmware ..... 8
  - Step 2: Verifying the Version..... 8
- 8. Defaulting the Device ..... 8**
  - Restoring Factory Default Settings..... 8
- 9. Warranty and Contact Information ..... 8**

## 1. Introduction

The SmartOS 12.7.2.1 software release for Adtran's Service Delivery Gateway (SDG) products is a major system release that introduces new features and addresses customer issues uncovered in previous code releases.

The 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 SDG platforms that are supported in Adtran's SmartOS 12.7.2.1 release.

**Table 1. Supported SDG Platforms**

Platform
834-5
834-v6
841-t6
854-6
854-v6
8610
8612
8614
8622
8632
8733
8734
8733v
8734v

[Table 2](#) lists the voice soft switches supported in the SmartOS 12.7.2.1 release.

**Table 2. Supported Voice Soft Switches**

Soft Switch
Allianza
Metaswitch
Voiceflex

**NOTE**

*Voiceflex is supported with the following limitations:*

- *Voiceflex occasionally generates registration response with 0 binding (no Contact header/expiry information).*
- *NAT with randomized port mapping causes Voiceflex registration response to have multiple bindings (multiple Contact headers).*
- *No packets are received from Voiceflex when the SDG generates comfort noise packets only. Silence suppression needs to be disabled when using Voiceflex.*
- *SIP INVITE messages from Voiceflex may come too soon after MWI NOTIFY messages, causing a “no ring” issue.*

### 3. System Notes

#### SDG SFP Support

The 610 (P/N 1442535F3), 630 (P/N 1287940F1), BiDi (P/N 1442110G1 & G2) and BiDi (P/N 1442412F1 & F2) SFPs are supported with the SmartOS 12.7.2.1 release. However, there are performance limitations associated with this support which are outlined below:

**NOTE**

*Only Adtran SFPs are supported on SDG devices at this time.*

- The SDX 610 (P/N 1442535F2) is not supported.
- When using a 630 SFP, ensure the firmware is at MXL-24\_1-1 or later.
- In some cases, with the SDX 610 GPON SFU ONT, upstream throughput may be limited to a less than expected rate. If the GPON upstream shaper is set between 300 to 1000 Mbps, upstream throughput may be limited to 200 to 300 Mbps in worst case scenarios. This condition can be avoided by setting the GPON upstream shaper to greater than or equal to 1000 Mbps.
- The SDG SFP interface is not hot-swappable so the unit must be powered off prior to installing an SFP module.
- The SDX 630 XGSPON ONU SFP requires a newer version of the SDG 854-(v)6 device to accommodate the larger size SFP. Contact your Adtran sales representative for more details.
- The SDG 8610 is limited to 1Gbps throughput even when using a SFP supporting higher rates such as the SDX 630 XGSPON ONU SFP
- BiDis 1442412 F1&F2 are only supported by SDG 8734 with the terminating device operating 10Gbps line rate

#### SDG WiFi Support

The current SmartOS 12.7 release supports WiFi6E and WiFi7 on specified models. .

#### SDG Device Upgrades

In some cases, SDG devices cannot be upgraded on first contact via ACS. **Workaround:** Reboot the unit and then run the upgrade.

## Home Analytics Support

Mosaic Home Analytics is NOT supported in the SDG 8600 and 8700 Series models. In all other SDG 800 Series models, Home Analytics must be disabled if Intellifi is enabled.

## 4. Features and Enhancements

### Features and Enhancements in 12.7.2.1

- SOL-1286 Added support for Wi-Fi 7 320Mhz and 4096QAM
- SOL-1291 Added support via DM to reboot an Intellifi Satellite
- SOL-1282 Added support which enables WAN Failover reports to be sent to DM.

### Previous Feature and Enhancements

#### Features and Enhancements in 12.6.5.1

- None

#### Features and Enhancements in 12.6.3.1

This section highlights new features and enhancements in the 12.6.3.1 release.

- SOL-365 Productize the 8733/34 6E Platform for GA availability
- SOL-1309 Added support for the Ookla Commercial Client (CUSTOMER MUST HAVE OOKLA CONTRACT)

## 5. Fixes

### Fixes in 12.7.2.1

- ISSUE-9066 Addressed issue with the 854-v6 not allowing capital letters in the digit map pushed from DM
- ISSUE-9483 Addressed an issue which caused the 854v6 Wi-Fi radios to be in Disabled state after first startup with some CDT's used
- ISSUE-9204 Addressed an issue with the Intellifi devices dropping connection to the Intellifi cloud and reporting there was an outage.

### Previous Build Fixes

#### Fixes in 12.6.5.1

- ISSUE-9120 Addressed TR-181 issue which caused the VapType to misreports almost every SSID as "primary", or essentially an useable SSID
- ISSUE-9400 Addressed TR-181 issue which user was unable to create parameter paths for a pull request with Wi-Fi and receive an Error.

#### Fixes in 12.6.3.1

This section highlights major bug fixes in the 12.6.3.1 release.

- ISSUE-8123 Address a Safari/Keychain GUI Problem
- ISSUE-7776 Address issue with Wi-Fi connected devices not being visible within the Web UI and within the Topology View within Intellifi Cloud

## 6. Errata

The following is a list of known issues that still exist in the 12.7.2.1 release.

- OWRT-9381 In some instances, IPv6 manual LAN configuration is not functioning correctly.
- OWRT-9439 Firewall Stealth is only working when an explicit rule to block the traffic exists.

## 7. Upgrade Instructions

Upgrading Adtran SDG products to the latest version of firmware is outlined in the following sections.

### Step 1: Upgrading Firmware

1. Open a web browser, connect to **192.168.1.1/admin**, and login with the username **admin**, and the password assigned to your device.
2. Select **Admin > Update**, and then select the **Browse** button to locate the appropriate firmware image.
3. Once the appropriate firmware image has been located, select **Update Software** to begin the upgrade. The image will be uploaded to the device and the device will automatically reboot upon completion.

### Step 2: Verifying the Version

1. After the device has completed rebooting, press the **F5** key to refresh your browser, and then reconnect to **192.168.1.1/admin** to log back into the device. The **Device > Summary** menu page appears.
2. Verify the version information in the **Software Version** field.

## 8. Defaulting the Device

### Restoring Factory Default Settings

To restore the factory defaults to the gateway, follow these steps:

1. Navigate to **Admin > Configuration** in the GUI menu on the left, and select the **Factory Default** tab.
2. Select the **Factory Reset** button and confirm the changes.

## 9. 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