Adtran

SDG SmartOS

12.8.4.1 Release Notes

Release Notes

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To the Holder of this Document

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1. Introduction

The SmartOS 12.8.4.1 software release for Adtran's Service Delivery Gateway (SDG) products is a hotfix release that addresses one issue found, which impacted Adtran production only and no customer impact.

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 12.8.4.1 release.

Table 1. Supported SDG Platforms

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

Table 2 lists the voice soft switches supported in the SmartOS 12.8.4.1 release.

Table 2. Supported Voice Soft Switches

Soft Switch
Allianza
Metaswitch
Voiceflex
Phoneline+ (BETA Support)

> **ℹ 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 12.8.4.1 release. However, there are performance limitations associated with this support which are outlined below:

> **ℹ 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 12.8.4.1 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 12.8.4.1

- SOL-1420 Implement Phase 1 Enhancements for support PlumeOS <> SmartOS Transition

Previous Feature and Enhancements

Features and Enhancements in 12.8.3.2

- None

Features and Enhancements in 12.8.3.1

- SOL-1232 Implemented necessary components to determine the backhaul link quality in the future.

- SOL-622 Implementated a Geolocation microservice to automatically assign Wi-Fi country codes.

- SOL-1369 Added interop support for the Phoneline+ voice switch.

- SOL-1284 Release Firmware supporting the 8733a WiFi tri-band extender Hardware.

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.

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 Released the 8733/34 6E Hardware Platforms for GA availability.

- SOL-1309   Added support for the Ookla Commercial Client (NOTE: CUSTOMER MUST HAVE OOKLA CONTRACT).

5. Fixes
Fixes in 12.8.4.1

- SDG-3037 Address issue with adtran support account to support manufacturing

- SDG-2754 Address VOIP issue by providing an option to avoid re-registration on DNS record change

- SDG-2900 Addressed issue which was causing VOIP active source filter blocks switching to the backup server

- SDG-2901 Addressed an issue which impacted a certain batch of units having bad VOIP keys with missing trailing "="

- SDG-3162 Addressed issue with thermal sensor sometime reporting bad values causing higher fan speed.

- SDG-1373 Addressed issue reporting bad airtime by iw for a client device causing calculation errors

- SDG-2661 Addressed issue so we recognize any failures with the backhaul and restart if necessary.

Previous Build Fixes
Fixes in 12.8.3.2

- SDG-3037 – Address an Issue with the Adtran support user that impacted mfg

Fixes in 12.8.3.1

- ISSUE-7456 Addressed IPv6 Manual configuration not functioning properly.

- ISSUE- 10249 Addressed an issue with P-bit setting not being honored on traffic already marked.

- SDG-1110 – Addressed issue with Hardware Acceleration of WiFi roaming when clients move between wired and WiFi uplinked AP's

- SDG-2469 Address issue with the SFP Wan not properly coming up when the SFP ONT was advertising 1000basex downstream.

Fixes in 12.7.2.1

- ISSUE-9066 Addressed an issue with the 854-v6 not allowing capital letters in the digit map pushed from DM.

- ISSUE-9483 Addressed an issue which caused the 854-v6 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.

Fixes in 12.6.5.1

- ISSUE-9120 Addressed a TR-181 issue which caused the VapType to misreport almost every SSID as "primary", or essentially a useable SSID.

- ISSUE-9400 Addressed a TR-181 issue in which usesr were 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   Addressed a Safari/Keychain GUI malfunction.

- ISSUE-7776   Addressed an issue in which Wi-Fi connected deviceswere not visible within the Web UI and the Topology View in Intellifi Cloud.

6. Errata

The following is a list of known issues that still exist in the 12.8.3.2 release.

- SDG-2715   Occasionally the 87xx Controller can fail to connect to the 6G backhaul with SFP

- 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.

To contact Adtran, choose one of the following methods:

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