Adtran

SDG

11.1.5.1 Release Notes

Release Notes

6SDGR11151-40A
March 2022

To the Holder of this Document

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Table of Contents

1. Introduction

ADTRAN Software R11.1.5.1 is a general release of code for the 834-5, 841-t6, and 854-6 Service Delivery Gateways.

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, data sheets, and other documentation can be found on ADTRAN's Support Forum, https://supportforums.adtran.com.

2. Supported Platforms

Release 11.1.5.1 supports the 834-5, 841-t6, and 854-6 platforms.

> **i** **NOTE**
> POTS for 8xx platforms is implemented & tested only for United States. For other countries, POTS is not implemented and not tested.

Mosaic Device Manager and SHA customers: Please make sure your ACS is updated with the latest drivers.

3. Features and Enhancements

The features of this release 11.1.5.1 are described on the related Data Sheets 834-5 Service Delivery Gateway Data Sheet (available on the ADTRAN Web site).

The following Mesh WiFi topologies are supported:

- 843-5 (hub) + 1-4x 831-t5 (sat)
- 854-6 (hub) + 1-4x 841-t6 (sat)

The following table highlights the enhancements for all products running software Release 11.1.5.1.

OWRT-5260	■ Enable beamforming and MU-MIMO
OWRT-5919	■ Enhanced remote diagnostic feature
OWRT-5931	■ Improve TR-069 logging
OWRT-6177	■ Improve Bluetooth management
OWRT-6240	■ Add TCP congestion optimization
	■ Enable packet steering (RPS/XPS) for MT7622
OWRT-6572	■ Fix IPv6 handling on upgrade
OWRT-6604	■ Optimize Ookla speedtest client
OWRT-6626	■ Optimize Wi-Fi backhaul selection
OWRT-6632	■ Added speedtest retry
OWRT-6642	■ Reformatted DNS Bind protection setting
	■ Added toggle for dns rebind protection
OWRT-6648	■ Added needed modules to initrd. Had to get them from staging dir.
	■ Fix initramfs LAN access
OWRT-6657	■ Add filter and scrolling support to klish show log
	■ Add syslog support for cwmp http dialog

OWRT-6658	■ Set "US" as default voice region
	■ Change voice regions to upper
	■ Add sas break time. Build supported region list
	■ Add voice country code region definitions and provisioning
OWRT-6661	■ Do both USR1 and USR2 for clearing DHCP so it retries. Don't remove connect.radio on timout.
OWRT-6662	■ Fix 711 codec validation. Region lookup. Config commit
	■ Don't install voip monit service until enabled and started
OWRT-6663	■ Reduce mosquitto log level. Add update_topology RPC topic. Add reboot RPC topic.
OWRT-6665	■ Detect and fix corrupt polecat2 cal data at boot
OWRT-6669	■ Add default value for guest disabled flag
OWRT-6680	■ Added SLIC gains
OWRT-6672	■ Install GCC10 compilation fixes
	■ Bump memtester to v4.5.1 for GCC10 compilation fixes
OWRT-6687	■ Add GUI for VoIP Configuration
OWRT-6714	■ Added gpio6 for reset pb
OWRT-6737	■ WiFi-get-channel-list.sh can now be called with phy or radio
	■ Add helper script to retrieve available channels for the GUI
	■ Update radio channel list to populate from srg script instead of iwinfo
OWRT-6746	■ Fix segfault in easycwmp for down/upload fault reporting
OWRT-6755	■ Enable DFS for 834-5; disable for 831-t5 and 841-t6
OWRT-6763	■ Added voip version cmd

4. Fixes

This section highlights major bug fixes for all products running software Release 11.1.5.1.

OWRT-6215	■ Added check for null in WPSPIN command
OWRT-6250	■ Fixed an issue with dragonfly 2.0.31 SDP-574 Update hostname on HUB using mesh-set-hostname.sh SDP-914 Reset hostname
	■ Fixed an issue in which curl for dragonfly_update was not working correctly
OWRT-6281	■ Fixed an issue in which 2.5G phy support was not working correctly for 854/841
	■ Fixed an issue in which10M and 100M support were not working correctly for 954/841
	■ Fixed an issue in which enabled MXL PHY driver caused issues on 841-t6
	■ Fixed an issue in which enabled extphy breaks on warm reboot
	■ Fixed an issue in which extphy was required for AN_FIXED_PHY support (854/841)
OWRT-6281	■ Added phy diagnostics
	■ Added an enable to phy-fixup-841 and moved all phy fixups to background
	■ Fixed an issue in which isable extphy was enabled and breaks on warm reboot
	■ Fixed an issue in which SGMII init for extphy for AN_FIXED_PHY support needed to be commented out
OWRT-6304	■ Fix webUI reporting of guest and video network status
OWRT-6373	■ Fixed an issue in which WAN LED is not working correctly on 854-v6 and 854-6
	■ Added PHY ledtrigger support
	■ Added default LED states for 841-t6 and 834-v6
	■ Added WiFi LED support for 854-6 and 854-v6
	■ Fixed an issue in which GPY211 LEDs were disabled as they are not used
OWRT-6393	■ Fixed an issue in which WiFi locks up in netifd
OWRT-6437	■ Fixed baker button definitions

OWRT-6446	■ Fixed an issue in which QuickStart was scanning for all radios; limit scan to high band 5g Radio.
	■ Fixed an issue in which WiFi QuickStart aborts without completion
OWRT-6462	■ Fixed an issue in which deleted back host tags were added back to netdata.conf.
OWRT-6517	■ Fix device_name IE field.
OWRT-6520	■ Fix inactive device scanning from hosts.json
	■ Fix reporting network_status constantly with IPv6 enabled. Add rpc to reboot and set_rsd enabled. Fix no publish to old topology rule.
	■ Make sure topo and network status get populated at restart.
OWRT-6540	■ Adjust dashboard gauge max values to account for values greater than 1Gbps
OWRT-6541	■ Fix WiFi country code in UK firmware
OWRT-6557	■ Set wps_pushbutton only on desired WPS interface
OWRT-6583	■ Disable broken 160MHz support for MT7615 and MT7915
OWRT-6589	■ Set mcproxy igmp query to 20 seconds.
OWRT-6591	■ Set QuickStart complete before stopping so HUB starts.
OWRT-6600	■ Add memtester to SOS image and initramfs image
OWRT-6601	■ Fix speedtest result calculations
OWRT-6610	■ Disable EEE advertisement for GPY211
OWRT-6613	■ Fix backhaul interface icon for 5Ghz-Mesh in topology
OWRT-6617	■ Update hostname in topology when checking LAN update
OWRT-6670	■ Fix busybox sh crash
OWRT-6678	■ Fix mac80211 decap offload
OWRT-6679	■ Suppress 'ACS survey is missing noise floor' messages
OWRT-6682	■ Don't set 1G LAN RGMII timing skew on 841-t6
OWRT-6683	■ Don't force enable RSD for daily builds
OWRT-6739	■ 2-radio wired SAT scenario covered. Also added fixes for 3-radio SAT detection.
OWRT-6744	■ Don't add bogus center frequency values to hostapd conf when channel is set to auto

5. Errata

The following features are planned but are not included in the 11.1.5.1 release:

- ■ No support for Network Performance Testing (NPT)
- ■ No support for Analytics
- ■ No support for Captive Portal (IPv6)
- ■ No support for Advanced DMZ
- ■ SFP on 854-6 not yet supported
- ■ 160MHz mode is disabled on 854-6
- ■ 160MHz mode is not supported on 834-5 and 841-t6 models

OWRT-6780	■ WiFi HW mode 11ax not displayed on 854-v6
OWRT-6779	■ Some WiFi packet counters missing for connected clients
OWRT-6768	■ unexpected reboot of Intellifi mesh nodes
OWRT-6721	■ IPv6 address displayed in webUI even after DHCPv6 config method set to none in PPPoE

OWRT-6712	■	reboot required for static WAN IP to take effect on 841 in router mode
OWRT-6676	■	Intellifi mDNS not present on Intellifi satellite
OWRT-6617	■	Intellifi hostname update fails to display on mesh topology until after reboot
OWRT-6599	■	Fixed an acket accelerator crash on 854-6
OWRT-6595	■	Stealth mode WAN LED error on 854-x
OWRT-6594	■	Upstream PPPoE traffic from LAN client bypasses hardware accelerator
OWRT-6593	■	With 2.5G WAN, single iperf stream from 1G LAN client is ~10% slower than expected; multiple streams OK.
OWRT-6568	■	Intellifi Sat fails to detect wifi devices on Guest / Video network
OWRT-6557	■	2.4G WPS does not work with some clients
OWRT-6552	■	Fast roaming is not enabled on Guest SSID
	■	

6. System Notes

Software Revision Summary

The software revision summary table below lists the driver and bootloader versions utilized with R11.1.5.1.

SW Revision	CFE Bootloader	Wireless Driver Version	Date
11.1.5.1	N/A	N/A	12/14/2021

7. Upgrade Instructions

For detailed information about migrating gateway firmware through multiple releases, see the Migration Best Path documents for your gateway model available from the ADTRAN Support Community.

Prior FW Releases

To obtain prior releases of this product, go to the **Software** section of the ADTRAN Support Community.

Upgrade Firmware

1. Open a web browser, connect to your device, and login with the admin username and password assigned to your device.
2. Click **Admin** > **Update** and click the **Browse** button.
3. Locate and select the appropriate firmware image.
4. Click the **Start Upgrade** button. The image will be uploaded to the device and the device will automatically reboot upon completion.

Verify Version

1. After the device has completed rebooting, press the **F5** Key to refresh your browser and log back into the device. The Device Info > Summary page appears.
2. Verify the version information in the **Software Version** field.

Restore Defaults

1. In the left menu, click **Admin**.
2. Click **Configuration** and then select the Factory Default button.
3. On the new page, select the **Factory reset** button. The factory reset warning dialog box appears.
4. Select **Yes, reboot**. The device is restored to default configuration.

Custom Defaults

The Custom Defaults feature allows the importation of a set of defaults to the gateway that will be restored when the Restore Default Settings operation is activated. This set of defaults can be defined and updated via the GUI, CLI or CWMP support of the gateway.

To create a set of Custom Default settings:

1. Configure the gateway as required.
2. On the Backup page, select the **Backup Running Configuration** button to upload a configuration file from the gateway.
3. After the file is uploaded, go to the Update Software page, select the file, and select the **Update Working Settings** button to download the file to the gateway. The gateway will use the downloaded settings as the custom default whenever the Restore Default Settings operation is invoked.

8. Technical Support

CPE Issues

For this Release, please contact **ADTRAN Support** or your ADTRAN Sales Engineer for any issues encountered during operation.

RMAs

Open a Support ticket with description "RMA" and attach the RMA Device spreadsheet which includes Model, MAC address, Issue, and Firmware version. You can find the spreadsheet in the ADTRAN Support Community on the RMA instructions page.

Firmware

Please contact your ADTRAN Sales Engineer to obtain this firmware.

9. Warranty and Contact Information

Warranty

Warranty information can be found online at: www.adtran.com/warranty.

Contact Information

For customer support inquiries, please contact ADTRAN Support:

Contact	Support	Contact Information
Customer Care	From within the U.S. From outside the U.S. Technical Support: ■ Web: Training: ■ Email: ■ Web:	1.888.4ADTRAN (1.888.423.8726) + 1.256.963.8716 www.adtran.com/support training@adtran.com www.adtran.com/training www.adtranuniversity.com
Sales	Pricing and Availability	1.800.827.0807