cisco.

Firmware Release Notes

Cisco Ultra Reliable Wireless Backhaul (formerly Fluidmesh) gateways and radio transceivers

First Published: July 28, 2021 Last Updated: : July 28, 2021

Applicability

These firmware release notes are applicable to all Cisco Ultra Reliable Wireless Backhaul gateway and radio transceiver devices.

This document contains important change information regarding the most current device firmware versions on all devices. These are as follows:

- FM1000 Gateway (1.5.0)
- FM10000 Gateway (Gen. 1) (1.5.0)
- FM10000 Gateway (Gen. 2) (2.2.0)
- FM Ponte 50 (1.2.6)
- FM1200 Volo (7.8.0)
- All FM3200-series and FM4200-series radio transceivers (8.5.0)
- FM3500 Endo and all 4500-series radio transceivers (9.3.0)

Firmware changelog

The following device-specific changes were introduced for the firmware versions mentioned in this document:

- RADIUS TLS support was added, with security certificate uploads through WebUI and TFTP (CLI only).
- CLI: mpls arp-limit command added.
- A new packet fragmenter was added.
- The Offline Configurator interface received an updated PHP version with long-term security support.
- Support for advanced Rate Controller options was added.
- The user-interface country code list was arranged in alphabetical order.
- Fixed antenna gain was added for FM1200 Volo and FM Ponte 50 devices.
- The country code list was updated for EIRP management.
- The firmware upgrade procedure was improved for FM1000 and FM10000 Gateway devices.
- CLI: output from the show-running-config command was improved.
- LDP: multicast flow was optimized.

Bug fix changelog

- The *txpower* setting in AUTO mode has been improved (for Europe, the system now imposes limits according to frequency and country code).
- FMQuadro enable/disable performance checks for each KPI: LER, PER, RSSI.
- FMQuadro: response times have been improved.
- PROFINET and QNET traffic on layer 2 can be enabled or disabled (discarded) according to configuration parameters (FM1k and FM10k, already available for other product lines in past releases).
- SNMP traps are now sent for failed offline Configurator interface login attempts (FM1k and FM10k, already available for other product lines in past releases).
- A feature was added to increase the eth MTU to up to 2000 bytes, and a relevant CLI command was added to set the MTU size.
- Support was added for applets (user-defined, small CLI code portions that can be executed upon coloring triggers).
- Cisco rebranding was applied to the offline Configurator interface, CLI and FMQuadro.
- CLI: multicast management support has been added.
- CLI: User-prerogative enablement and disablement of interfaces has been added (for FM1k and FM10k ONLY).
- CLI: Plug-in management (activation/deactivation) has been added.
- CLI: Username/password management has been added.
- CLI: A configurable session timeout feature has been added.
- CLI: A country command has been added to manage the country code change
- RADIUS: Support for the filtering of RADIUS traffic during authentication has been added.
- CLI: Refactoring of ethernet/SFP commands has been added, with ethernet/sfp, mtu and speed commands grouped into a single command.
- Outdated Fluidmesh Wi-Fi AP support has been removed.

Bug fix changelog

The following bug fixes were introduced for the firmware versions mentioned in this document:

- LDP: All routes are sent if the node is GGW in Topology.
- A plug-in issue was fixed.
- Several telemetry issues were fixed.
- CLI: An issue was fixed in which incorrect WLAN telemetry throughput would be shown if the device was in Bridge mode.
- An issue with temporary route loss between mobile primary and secondary radios was fixed.
- An issue with action/ack packets being sent after radar detection was fixed.
- An issue with TFTP upgrades from a Windows TFTP server was fixed (FM1000 and FM10000 only).
- A Fluidity scanning bug was fixed.
- An issue with DNS configuration handling in Provisioning mode was fixed.

Firmware Release Notes

Bug fix changelog

- A bug was fixed in L3 multicast route management, involving faulty vehicle connection to the primary mesh-end of a cluster.
- LDP: A race condition between LSP replacement and node reboot was fixed, in cases where routes flap multiple times in the same manner as large, daisy-chained topologies.
- Configurator interface: An issue with the manage plugins page not showing/clearing plugin logs was fixed.
- Configurator interface: An issue with static route setup, in which the live static route was not set, or was deleted, was fixed.

THE SPECIFICATIONS AND INFORMATION REGARDING THE PRODUCTS IN THIS MANUAL ARE SUBJECT TO CHANGE WITHOUT NOTICE. ALL STATEMENTS, INFORMATION, AND RECOMMENDATIONS IN THIS MANUAL ARE BELIEVED TO BE ACCURATE BUT ARE PRESENTED WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED. USERS MUST TAKE FULL RESPONSIBILITY FOR THEIR APPLICATION OF ANY PRODUCTS.

THE SOFTWARE LICENSE AND LIMITED WARRANTY FOR THE ACCOMPANYING PRODUCT ARE SET FORTH IN THE INFORMATION PACKET THAT SHIPPED WITH THE PRODUCT AND ARE INCORPORATED HEREIN BY THIS REFERENCE. IF YOU ARE UNABLE TO LOCATE THE SOFTWARE LICENSE OR LIMITED WARRANTY, CONTACT YOUR CISCO REPRESENTATIVE FOR A COPY.

The Cisco implementation of TCP header compression is an adaptation of a program developed by the University of California, Berkeley (UCB) as part of UCB's public domain version of the UNIX operating system. All rights reserved. Copyright © 1981, Regents of the University of California.

NOTWITHSTANDING ANY OTHER WARRANTY HEREIN, ALL DOCUMENT FILES AND SOFTWARE OF THESE SUPPLIERS ARE PROVIDED "AS IS" WITH ALL FAULTS. CISCO AND THE ABOVE-NAMED SUPPLIERS DISCLAIM ALL WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING, WITHOUT LIMITATION, THOSE OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT OR ARISING FROM A COURSE OF DEALING, USAGE, OR TRADE PRACTICE.

IN NO EVENT SHALL CISCO OR ITS SUPPLIERS BE LIABLE FOR ANY INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES, INCLUDING, WITHOUT LIMITATION, LOST PROFITS OR LOSS OR DAMAGE TO DATA ARISING OUT OF THE USE OR INABILITY TO USE THIS MANUAL, EVEN IF CISCO OR ITS SUPPLIERS HAVE BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

Any Internet Protocol (IP) addresses and phone numbers used in this document are not intended to be actual addresses and phone numbers. Any examples, command display output, network topology diagrams, and other figures included in the document are shown for illustrative purposes only. Any use of actual IP addresses or phone numbers in illustrative content is unintentional and coincidental.

All printed copies and duplicate soft copies are considered un-Controlled copies and the original on-line version should be referred to for latest version.

Cisco has more than 200 offices worldwide. Addresses, phone numbers, and fax numbers are listed on the Cisco website at www.cisco.com/go/offices.

Cisco and the Cisco logo are trademarks or registered trademarks of Cisco and/or its affiliates in the U.S. and other countries. To view a list of Cisco trademarks, go to this URL: www.cisco.com/go/trademarks. Third-party trademarks mentioned are the property of their respective owners. The use of the word partner does not imply a partnership relationship between Cisco and any other company. (1110R)

© 2021 Cisco Systems, Inc. All rights reserved.