



# Firmware Release Notes

Cisco Ultra Reliable Wireless Backhaul (formerly Fluidmesh) FM1200 Volo, FM3200, FM4200 radios series

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## Applicability

These firmware release notes are applicable to FM1200 Volo radios and all FM3200-series and FM4200-series radio transceivers. (Note that this radio was formerly sold as the Fluidmesh).

This document contains important change information regarding the following device firmware version:

- FM1200 Volo (7.9)
- All FM3200-series and FM4200-series radio transceivers (8.6)

## Firmware changelog

- Fluidmax: TDMA token passing algorithm is improved to reduce the TX duty-cycle on the wireless link when Fluidmax is enabled. High duty-cycle may cause DFS radar pulses to be detected with low probability, thus potentially cause interference with radar. Therefore, the token-passing algorithm has been enhanced to manage the duty-cycle properly.
- Fix L2TP web page to report the correct remote port
- Fix issue managing duplicated IP with CLI "l2tp add" command
- Refactor CLI l2tp add/delete command: allow automatic tunnel IDs only (avoid possibility to set static tunnel IDs)
- Fix: Default route not reset after L3 failover
- Introduced `usb` command to enable/disable usb ports
- Fix: invalid javascript passphrase check
- Support new logs for Monitor
- Add upper-bound limit to VLAN ids in webui and clish
- Add new DEMO Mode unlocking unlimited features
- Generate logs for ssh auth (failed or succeeded) attempts and forward them to FM Monitor
- Generate logs for succeeded web auth attempts and forward them to FM Monitor
- Add support for RADIUS events logging in vehicles radios
- Radius: fix mobile authentication with EAP-TLS (MTU issue)
- Fix CLI SSH exploit major issue and improve CLI ssh (Additional information available here: <https://bst.cloudapps.cisco.com/bugsearch> Ref #CSCvz68909)
- Refactor and improve CLI meshroute command (show, allow list / block list management)
- Add logic to enable/disable ethernet interfaces
- CLI: Add min rssi threshold to fluidity coloring command
- Generate configuration change logs (static routes, allow list/block list, applet, user credentials)
- Improve ntp timer management and avoid potential issues when user is not authenticated
- Improve plugin notification management for Monitor, Racer and FMQuadro
- Add support for FM-5.9 plugin and related (ITS) frequencies
- Improve custom SNMP OID management
- Prevent potential malicious code injection using Web
- Add missing IP validation to ping softdog page
- Improve (lighttpd) web server configuration for HTTPS redirect
- Avoid potential issue with fast failover feature and GARP CLI setting

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- Improve Web UI logout logic
- Improve CLI view switching Racer online/offline
- Update certificate for Racer authentication

The Cisco Ultra-Reliable Wireless Backhaul Partner Portal and all radio transceiver firmware packages have been updated with new Cisco SSL certificates. All radios connected to Racer online require a firmware upgrade to the aforementioned versions to keep working properly. For any additional information, please contact [support@fluidmesh.com](mailto:support@fluidmesh.com).

- Improve radius server switch logic and fix potential issue with timeout management
- Improve logic for managing plugin and multi-plugin (uploading CSV file) installation
- Fix SNMP issue switching v2c/v3 version: do not allow v2c queries when v3 is enabled
- SNMP: change plugin bw unit from bit/s to Mbit/s
- Fix issue with transparent bridge mode
- Fix IP fragments corruption on Fluidity L3 vehicles

Commented [AM(1)]: Additional details to push customers updating the FW to use Racer online

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