

RobustOS Pro Firmware Release Notes

NOTES

- This release notes mainly describe all-new features, fixes, and other changes implemented in the RobustOS Pro mainline version. Firmware upgrade information about all mainline versions will accumulate in this release note so that you can check the history [here](#).
- This release note applies to all gateway using **RobustOS Pro 2.x** version.
- The firmware name prefix corresponds to the supported product models:
 - ❖ eg5120: EG5120
 - ❖ eg5100: EG5100, EG5101
 - ❖ lg5100: LG5100
 - ❖ eg5200: EG5200
 - ❖ Ev8100: EV8100

VERSION V2.3.4

Release Date: June 4, 2025

Previous Version: V2.3.3

NEW FEATURES

1. Added compliance with RED DA (EN 18031) standard.
 - (1) Added mandatory admin password change on first login.
 - (2) Added cybersecurity version display on homepage.
 - (3) Added ICMP forwarding limiting in firewall.
 - (4) Added MAC-IP binding feature.
 - (5) Optimized password policy for user accounts.
 - (6) Optimized encryption algorithms for configuration import/export.
 - (7) Fixed kernel vulnerability (CVE-2024-1086).

ENHANCEMENTS

1. Added firmware downgrade risk notification feature.

BUGS FIXED

1. Resolved the rare issue of devices losing MAC addresses.
2. Fixed the problem of system access failure after LXDE desktop environment is installed.

KNOWN BUGS & LIMITATIONS

N/A

OTHERS

1. To upgrade the Chirpstack version built into LG5100, please use USB to flash the firmware.
Note: When flashing the firmware via USB, all user data on the device will be cleared.
2. To enable the speed test function, please install the speedtest-cli package.
3. After the version update, the configuration of LG5100 Packet Forwarder will be reset.

VERSION V2.3.3

Release Date: March 11, 2025

Previous Version: V2.3.2

NEW FEATURES

N/A

ENHANCEMENTS

1. Optimized the mechanism for saving the current configuration as the default configuration.

BUGS FIXED

1. Fixed the problem of high CPU usage caused by NTP update failures when the device is not connected to the network.
2. Fixed the problem of the EG5200 failing to restore factory settings using the RST button.

KNOWN BUGS & LIMITATIONS

N/A

OTHERS

1. To upgrade the Chirpstack version built into LG5100, please use USB to flash the firmware.

Note: When flashing the firmware via USB, all user data on the device will be cleared.

2. To enable the speed test function, please install the speedtest-cli package.
3. After the version update, the configuration of LG5100 Packet Forwarder will be reset.

VERSION V2.3.2

Release Date: January 24, 2025

Previous Version: V2.3.0

NEW FEATURES

N/A

ENHANCEMENTS

1. Enhanced the security protection capability of WEB Server.
2. Enhanced the security protection capability of SSH.
3. Optimized the service restart mechanism of application configuration.
4. Optimized the mounting logic of USB disk.
5. Optimized the CPU usage of Modem Manager.
6. Optimized Nginx configuration to support the expansion of third-party services.

BUGS FIXED

1. Fixed the problem of system certificate upload failure.
2. Fixed the problem of disabling Ethernet port failure.
3. Fixed the problem of EC25-J failing to obtain phone number.
4. Fixed the problem of SNMP not working properly.
5. Fixed the problem of some CLI commands not working properly.
6. Fixed the problem of some event features not working properly.
7. Fixed the problem of GPS not being able to automatically restart after abnormal exit.
8. Fixed the problem of EG5101 serial port type information display error.
9. Fixed the problem of the connected device being unable to access the Internet when IPsecVPN remote subnet is configured to 0.0.0.0/0.
10. Fixed the problem of abnormal SMS execution status cellular command echo.

KNOWN BUGS & LIMITATIONS

N/A

OTHERS

1. To upgrade the Chirpstack version built into LG5100, please use USB to flash the firmware.

Note: When flashing the firmware via USB, all user data on the device will be cleared.

2. To enable the speed test function, please install the speedtest-cli package.
3. After the version update, the configuration of LG5100 Packet Forwarder will be reset.

VERSION V2.3.0

Release Date: September 30, 2024

Previous Version: V2.2.2

NEW FEATURES

1. Added support for SmartRoamingV2.
2. Added support for EG5200, EV8100, EG5101.
3. Added support for DFOTA function of Quectel module.
4. Added support for importing custom APN list.
5. Added support for limiting the number of SMS sent by SIM card.
6. Added support for configuring WWAN MTU.
7. Added support for manually specifying cellular network operator.

ENHANCEMENTS

1. Added support for enabling or disabling the cellular IMS function.
2. Added support for custom WEB tags.
3. Added support for configuring the built-in LNS of LG5100 through the WEB interface.
4. Added support for specifying a speed test server.
5. Added support for WPA3 in Wi-Fi AP mode.
6. Added support for WEP and connection hidden SSID in WiFi client mode.
7. Added support for assigning static IP addresses to end devices.
8. Added support for SNAT rules in firewall Port Forwards.
9. Added support for input port range in firewall Port Forwards.
10. Added support for configuring the same source IP address for multiple rules in firewall Port Forwards.
11. Optimized the module restart mechanism.
12. Optimized the login security function.
13. Optimized the configuration file download function.
14. Optimized the Sudo account management function.
15. Optimized the control of USR LED.
16. Optimized the Network Manager log.
17. Optimized the configuration interaction logic of LG5100 Packet Forwarder.
18. Updated the name of DO status.
19. Updated APN list.
20. Updated the built-in Chirpstack version of LG5100 to V4.

BUGS FIXED

1. Fixed the problem that some CLI commands cannot be used normally.

1. Fixed the problem that the Basic Station certificate cannot be deleted on the LG5100 Web page.

KNOWN BUGS & LIMITATIONS

N/A

OTHERS

1. To upgrade the Chirpstack version built into LG5100, please use USB to flash the firmware.

Note: When flashing the firmware via USB, all user data on the device will be cleared.

2. To enable the speed test function, please install the speedtest-cli package.
3. After the version update, the configuration of LG5100 Packet Forwarder will be reset.

VERSION V2.2.2

Release Date: May. 29, 2024

Previous Version: V2.2.1

NEW FEATURES

N/A

ENHANCEMENTS

21. Optimized the roaming status display of SRM821 module.

BUGS FIXED

N/A

KNOWN BUGS & LIMITATIONS

N/A

OTHERS

This version is only for EG5120.

VERSION V2.2.1

Release Date: May. 16, 2024

Previous Version: V2.2.0

NEW FEATURES

1. EG5120 added support for SRM821 module.

ENHANCEMENTS

22. Added support for LAN DHCP static lease feature.
23. Optimized product model verification rules.

BUGS FIXED

1. Fixed the problem of SIM card status display on Dashboard.

KNOWN BUGS & LIMITATIONS

N/A

OTHERS

This version is only for EG5120.

VERSION V2.2.0

Release Date: Feb. 23, 2024

Previous Version: V2.1.1.1

NEW FEATURES

2. Added support for SFTP.
3. Added support for ML620 module.
4. Added support for BG95 module.
5. Added support for Robustel software repository (RCMS).

ENHANCEMENTS

24. Added support for displaying 5G status information.
25. Added support for OpenVPN Auto mode.
26. Added support for displaying currently logged in account information.
27. Added support for opening or closing network ports individually.
28. Added support for switching to another partition to start after Uboot fails to load after startup.
29. Added support for automatic disconnection of serial port TCP connection when timeout.
30. Added support for WLAN, WAN excessive traffic events, and daily traffic events.
31. Added support for ethernet port Up/Down events.
32. Added support for Verizon and ATT certification related functions.
33. Optimized static routing and policy routing to support the configuration of inactive link interface.
34. Optimized web login. Logging into ROS and ROS PRO does not require clearing browser cache.
35. Optimized EG5100 dashboard page refresh speed.
36. Optimized the display of Debug page refresh display.
37. Updated WiFi driver to improve WiFi connection stability.
38. Dashboard's CPU & RAM supports hyperlinking to resource graphs.
39. Firewall Port Forwards adds support for configuring SNAT rules.

BUGS FIXED

1. Fixed User LED display problem. Select PPTP and the User LED will still be on after establishing the L2TP link;
2. Fixed the UI display problem: click the link 'It is strongly recommended to change the default password' and the redirected Super User page will display that both Sudo User table and Super User table are selected.
3. Fixed the problem of missing status field reporting in Packet Forwarder of LG5100.

KNOWN BUGS & LIMITATIONS

N/A

COMPATIBLE MODULES

RM520N, EG25, EC25,BG95,ML620

OTHERS

1. To update the WiFi driver, you need to update the Linux Image file.

VERSION V2.1.1.1

Release Date: Aug. 03, 2023

Previous Version: V2.1.0

NEW FEATURES

1. Added support for setting custom prefixes parameters for GPS.
2. Added support for traffic statistics.
3. Added the function of enabling automatic switchback of the module and setting the switchback time.
4. EG5120 added support for cellular network type settings.

ENHANCEMENTS

1. The default working mode of Wi-Fi is changed to AP mode.
2. The cellular module supports turning on or off the IPV6 network.
3. Added cellular CA and ENDC status on the EG5120 Dashboard page.

BUGS FIXED

1. Fixed the issue that the SIM traffic graph was displayed incorrectly when the WAN link Clear button was clicked.

KNOWN BUGS & LIMITATIONS

N/A

OTHERS

N/A

VERSION V2.1.1

Release Date: Jun. 09, 2023

Previous Version: V2.1.0

NEW FEATURES

N/A

ENHANCEMENTS

N/A

BUGS FIXED

1. Fixed issue that Cert Manager page of the Packet Forwarder function page is not displayed.

KNOWN BUGS & LIMITATIONS

N/A

OTHERS

N/A