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TagLINK Gateway Family

Release notes

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1. Release versions

Following is the list of official **ERM TagLINK Gateway** firmware versions.

1.1. Version 4.5.5 (August 2025)

- TagLINK combo:
  - Fixes for internal bridge to pass Wiliot's certification.
  - Fixed issue with outgoing SMS.
  - Internal bridge will automatically update to 4.4.96.
  - Added parameter to enable/disable WiFi AP for configuration.
- Improved firmware update reliability.
- Added report for wrong SIM PIN code (to the serial configuration software).

1.2. Version 4.5.2 (August 2025)

- Modified the INFO SMS to wait until the device is online, to prevent sending the 'approved' or 'token refresh' status.
- Removed **pixelLimit** parameter.

1.3. Version 4.5.0 (July 2025)

- Added web configuration for WiFi/Combo devices.
- Preventing server connection until time is known.
- Requesting time from NTP server if no other source is available.
- Optimized GNSS power on duration when there's no (recent) clock.
- Added parameter to send known bridges periodically (**bridgeDetection**).
- Filtering out gateway to bridge transmissions.
- Added low power mode (**workWithoutPowerMode**).
- Fixed issue with **!REBOOT** that causes reboot loops in some cases.
- Removed support for Wiliot on Google's cloud platform.

1.4. Version 4.4.6 (June 2025)

- Added extended fields to **gwGeoLocation** (enabled by **extendedGeoLocation**).
- Modified parameters:
  - Removed charger parameters.
  - Removed "**gnssMaxDuration**" parameter.
  - Removed "**wiliotServer**" from the schema (read-only on the cloud).
  - Restored "**bluetoothRxChannels**" that was removed by accident.
  - Removed "**exitPIMode**" parameter (always on).
  - WiFi password parameter is write-only.
  - Added unconditional automatic reboot, no-rx reboot, adjusted names of reboot parameters.
- Bridge reboot mechanism:
  - Added bridge reboot output.
  - Automatically rebooting bridges on power up.
  - Added support for bridge reboot output by SMS (**!rebootbrg <seconds>**).
- Gateway Info:
  - Power events will transmit **gatewayInfo** when power is lost/restored.
  - Added number of packets overflowed in the logger.
  - Added more details in the GNSS field (GW Info).
  - Removed packet counters for ACL.
- Added GNSS accuracy filter.
- Added option for pretty GNSS trails.

1.5. Version 4.4.3 (April 2025)

- Fixed issue with ACL.
- Added automatic detection for hologram SIM.

1.6. Version 4.4.2 (April 2025)

- Combined GW+BRG identifies itself with gateway type of "**ermv1**".
- WiFi gateways will automatically try to connect to "**ERM**" with password "**12345678**".

1.7. Version 4.4.1 (April 2025)

- Added ACL, up to 32 bridges (API version 205).
- Added "**!NUMBER xxx**" SMS command to set the gateway's phone number.
- Added support for combined GW+BRG+WiFi product.
- Modified DFU progress to show progress in percents.
- Updated custom broker keys.
- Added input events (ermInC / ermInD / ermInE / ermInF).
- Fixed issue of not returning to prod. server after custom broker fails to connect.
- WiFi support (in supporting hardware):
  - WiFi gateways will automatically try to connect to "**Wiliot**" with password "**12345678**".
  - Added support for API command to configure WiFi SSID and password.
  - Added WiFi and additional connectivity status for Wiliot Monitor.

1.8. Version 4.3.15 (March 2025)

- SMS:
  - (4.3.10) Added "**token expired**" and "**refresh token**" states to **INFO** response.
  - (4.3.10) Added server name in response to **INFO**.
  - (4.3.10) Added SMS command to reset to defaults (**!DEFAULT**) - this will also reset the registration.
  - (4.3.11) All SMS commands (except INFO) are prepended with '!'.
  - (4.3.11) Sending received SMS messages as **ermSMS** event.
  - (4.3.11) **!CONNECT** command will switch back to regular server if gateway is connected to custom server.
  - (4.3.11) Delaying **INFO** response until gateway state is stable.
- Bridge firmware update:
  - (4.3.13) Fixed issue that in some cases the GW doesn't return to the server after DFU (ref #3074).
  - (4.3.14) Automatically exiting PL mode when updating bridge (**exitPlMode**).
- Gateway info:
  - (4.3.11) Added average daily data TX counter (DA).
  - (4.3.12) Added "**Ignition switch state**" field in gateway info.
  - (4.3.14) Removed "estimated" data counters.
  - (4.3.15) Removed **autoGatewayInfo** parameter (always on).
- General functionality:
  - (4.3.10) Added option to set customer configuration in production line.
  - (4.3.11) Added ping event after movement detection (**movAboveSpeed**, etc).
  - (4.3.11) Added support for WiFi gateways.
  - (4.3.11) Fixed issue of some settings that were not saved between firmware updates.
  - (4.3.11) Removed option to disable backoff times (that option could cause high data use in some rare cases).
  - (4.3.11) Removed option to disable diagnostics.
  - (4.3.11) Turning Bluetooth on periodically when in power saving mode.
  - (4.3.15) Increased logger size, added **!CLEAR** command to clear it.
  - (4.3.15) Modified custom events (see user manual).
- Data path:
  - (4.3.11) Added support for V3 protocol (not supported on Wiliot's cloud at the time of the release).
  - (4.3.12) Fixed handling of sensor packets with shorter length (ref #3072).
  - (4.3.15) Added WiFi SSID to gateway info.

  - (4.3.15) Added support for customMessage instead of customBroker in V2 protocol.
  - (4.3.15) Increased max. pixels per packet, added a parameter to limit it.
- Diagnostic log:
  - (4.3.10) Sending diagnostic log every 2 weeks.
  - (4.3.11) Added connection/disconnection duration.
  - (4.3.11) Added locations.
  - (4.3.11) Transmission of authentication failure diagnostic report will be at most once every 25 hours to prevent repeated transmissions.
  - (4.3.15) Added "**Logger used percent**" to the gatewayInfo.

1.9. Version 4.3.9 (November 2024)

- Added parameter to enable reception of pixels/bridges during bridge firmware update (transmission of configuration / commands will not be allowed).
- Sending automatically paired bridges as part of the gateway information packet (informational only).
- Added option to set configuration using Monitor (for production line).
- Added option to periodically transmit gateway information.
- Added parameter for daily maximum battery charging duration.
- Added report of bridge firmware complete/failed to the cloud.
- Setting owner id to NO_OWNER when using custom server and device is not registered.
- Added support for internal/external temperature sensor report using the **ermTemperature** event.

1.10. Version 4.3.7 (October 2024)

- Fixed extra CR+LF after POST data (problem with latest AWS version).
- Added server name report for Monitor.

1.11. Version 4.3.6 (October 2024)

- Fixed issue with setting always_on and ignition_on (they were swapped internally).
- Using protocol V2 by default (when updating from versions before v4.3.0).
- Communication byte counter is always active.

1.12. Version 4.3.5 (October 2024)

- Added communication byte counter (in **GatewayInfo**).

1.13. Version 4.3.4 (October 2024)

- **tagMetadataCouplingSupported** was set to false (unified packets only).
- Resetting registration when changing server.
- Added SMS command to change servers.

1.14. Version 4.3.3 (October 2024)

- Updated API version to 204.

1.15. Version 4.3.2 (October 2024)

- V2: Re-sending GW status after configuration update.
- V2: Added **bleSwVersion**.
- V2: Fixed setting some parameters.
- V1: Allowing longer incoming JSON (32 → 64).

1.16. Version 4.3.1 (October 2024)

- Enabled GNSS location filters.

1.17. Version 4.3.0 (October 2024)

- Based on version 4.1.8.
- Added Wiliot protocol V2 (using legacy protocol by default).
- Added "**disconnect**" action.

1.18. Version 4.1.8 (Not released)

- Removed data coupling.
- Increased server timeout to 6 minutes.
- Removed **gatewayName** (unused by Wiliot).
- Filtering duplicates at the BLE level.
- Fixed issue with FOTA SMS command.
- Fixed issue with truncated SMS messages.
- Added SMS command to get GNSS diagnostics.
- Added event for failure get GNSS location (duration is a parameter).
- Added event for low voltage.
- Added support for AUTO custom topic.
- Added SMS command to switch to OSCAR.
- Modified LED logic.

1.19. Version 4.1.7 (July 2024)

- Modified sensor packet cache to prevent filtering side info.

1.20. Version 4.1.6 (July 2024)

- Fixed issue with **transmitPixels** parameter.
- Removed nfpkt from sensor messages.

1.21. Version 4.1.5 (July 2024)

- Added link to maps to gateway page when in SMS messages.
- Added option to disable scanning.
- Added option to enable/disable pixel transmission.
- Added support for Sensor UUID (0x90FC).

1.22. Version 4.1.4 (June 2024)

- Reduced time to wait for packets (10s → 2.5s).
- Fixed issue with large packet transmissions (more than 30 pixels per packet).
- Not sending **gwGeoLocation** if location is not available.
- Using location timestamp and not transmission timestamp for location.
- Added **ermEvent** events: Power disconnected/reconnected, Ignition on/off.

1.23. Version 4.1.3 (June 2024)

- Fixed issue of first packet having PacketID 0 with QoS=1.
- Added additional information to INFO SMS command.
- Renamed SMS command from RESET to REBOOT.
- Added SMS status after REBOOT command.
- Added Gateway ID to every SMS message.
- Added Registration progress report after UNREGISTER command.

1.24. Version 4.1.2 (June 2024)

- Added automatic transmission for gateway information when connecting to the cloud.
- Added diagnostics log, with a parameter to enable/disable diagnostic transmission.
- Added message in DFU log of which bridge was not found.
- Added more details in SMS messages, including location and version to INFO SMS.
- Added delay after power loss to be able to report it to the cloud.
- Added support for prod/dev/test servers and for a custom server.
- Enabled Bluetooth advertising while the Gateway is not authorized to allow connection from a mobile application.
- Increased cache size for Bridge to Gateway packets.
- Increased number of tags per packet (16 → 32).
- Optimized transmission speed to the server.
- Modified default Bluetooth channel to 39 only (listen only to Bridges).
- Modified server port to 8883.
- Renamed **automaticReset** → **automaticReboot**.

1.25. Version 4.1.1 (April 2024)

- Updated API version to 202.