



# FLARM Hub Firmware Release Notes

## Updates and Interoperability

Some features of FLARM Hub require an updated PowerFLARM firmware to work. It is recommended to always update both to the latest version simultaneously.



# FLARM Hub version 1.80

Published 25 September 2024

<b>Products</b>	PowerFLARM Flex
<b>Build</b>	d4e3aa6f
<b>Minimum PowerFLARM firmware</b>	7.41

## Changes since 1.77

### Enhancements

- Added Bluetooth Low Energy (BLE) interface for EFB apps.
- Added profiles to store multiple configuration sets.
- Added Auto Off option to power down automatically after landing.
- Traffic screen: improved North indicator visibility.
- Traffic screen: added miles as distance unit.
- Traffic screen: detailed altitude differences now shown up to 9999 ft (previously 999 ft).
- Traffic screen: zoom level preserved when returning.
- Menu screen: restructured for better ergonomics.
- Menu screen: improved ICAO address field usability.
- Menu screen: added text entry for aircraft registration, model, pilot name, and competition ID.
- Menu screen: improved button styling.
- Menu screen: added Mode-C filtering configuration.

### Fixes

- Menu screen properly grays out inactive items when device is busy.
- Improved stability of Wi-Fi connection.
- FLARM firmware updates are now shown immediately after connecting with the FLARM Hub App.



## FLARM Hub version 1.77

Published 29 April 2025

<b>Products</b>	PowerFLARM Flex
<b>Build</b>	5943a723
<b>Minimum PowerFLARM firmware</b>	7.41

## Changes since 1.73

### Fixes

- Improved reliability of Wi-Fi TCP connection for EFB apps.



## FLARM Hub version 1.73

Published 08 April 2025

<b>Products</b>	PowerFLARM Flex
<b>Build</b>	3c3f1c4c
<b>Minimum PowerFLARM firmware</b>	7.41

**Initial release for PowerFLARM Flex**



## FLARM Hub version 1.64

Published 25 March 2024

<b>Products</b>	PowerFLARM Fusion
<b>Build</b>	a86b17bd
<b>Minimum PowerFLARM firmware</b>	7.08

### Changes since 1.63

#### Fixes

- Fixed an issue where the Hub becomes unavailable after an update, when "Switch off in flight" option was used.



## FLARM Hub version 1.63

Published 15 February 2024

**Build** d001c5f4  
**Minimum PowerFLARM firmware** 7.08

### Changes since 1.61

#### Enhancements

- Improve the WiFi connection stability.



## FLARM Hub version 1.61

Published 28 November 2023

<b>Build</b>	93cd15c
<b>Minimum PowerFLARM firmware</b>	7.08

### Changes since 1.43

#### Fixes

- Fix support package creation



## FLARM Hub version 1.43

Published 11 October 2022

**Build** 1a3fcb5  
**Minimum PowerFLARM firmware** 7.08

### Changes since 1.42

#### Enhancements

- GDL 90 available as a protocol on Sub DE-9 port (requires PowerFLARM 7.08)
- Dataport operations progress information sentences (\$PFLAQ) are now forwarded on Sub DE-9 port

#### Fixes

- Bluetooth messages and connection were dropped when many targets in vicinity
- Dataport messages were dropped on Sub DE-9 port when many targets in vicinity
- Fixed support package creation





# FLARM Hub version 1.42

Published 14 July 2022

**Build** d3acfd3  
**Minimum PowerFLARM firmware** 7.04

## Changes since 1.41

### Enhancements

- Improve Wi-Fi performance by avoiding overlapping channels
- Increase security on web page to avoid weak security warnings in browser
- When creating a support package, the download of the complete flash content is an optional setting (can take a long time)
- Add user interface for configuring Alert Zones (requires AZN licence)

### Fixes

- Checksums added to all sentences emitted on D-Sub-DE-9 port
- Hub correctly recognizes restart after firmware update
- 'Download all IGC Files' button visible on small screens
- Hub can operate while downloading IGC files to USB stick
- Task declaration with long descriptions working on D-Sub-DE-9
- Disallow simultaneous updates of PowerFLARM and FLARM Hub firmware
- "\$PFLAC" sentences on D-Sub-DE-9 port were not handled correctly when having a leading space (" \_\$PFLAC")



## FLARM Hub version 1.41

Published 18 January 2022

**Build** eafefff0  
**Minimum PowerFLARM firmware** 7.04

### Changes since 1.40

#### Fixes

- Hub web UI crashed when downloading single IGC files with mobile UI
- Generation of PFLAU sentences was invalid for older ( $\leq 7$ ) dataport versions
- REST endpoint `/aircraft` returned invalid JSON in case of both directed and undirected traffic



# FLARM Hub version 1.40

Published 30 November 2021

**Build** 41bed2cf  
**Minimum PowerFLARM firmware** 7.04

## Changes since 1.22

### Enhancements:

- Download all IGC log files as a ZIP file in IGC Files page
- Command history available on Data Port via up/down arrow
- Enabled Bluetooth pairing when the device is locked

### Fixes

- Startup screen logo did not display correctly on iOS devices
- Wrong scaling factor of GDL90 vertical velocity (10x too large)
- IGC Task Declaration editor rejected longitude values even though correct
- Bluetooth Data Port configuration (data sentences, protocol version) is now reset to the default values when hub is restarted
- Fixed position of targets when using non-metric unit system



## FLARM Hub version 1.22

Published 07 July 2021

**Build** a49b86d  
**Minimum PowerFLARM firmware** 7.04

### Changes since 1.21

#### Fixes

- Enabled Wi-Fi channels (frequencies) per region. This fixes a bug where the Wi-Fi network (SSID) was sometimes not visible on Android devices in North America, not allowing to connect to Hub. To apply the update, you may need to use a laptop or any other, non-Android device.
- Sporadic disconnect using ICD data streaming over TCP (FTD-078, Section 8.1).
- Increased Bluetooth pairing duration from 1 to 5 minutes for an easier pairing process. The pairing process can be manually cancelled.



## FLARM Hub version 1.21

Published 09 June 2021

**Build** a18ed97  
**Minimum firmware** 7.04

### Changes since 1.20

#### Fixes

- In the IGC Task Editor, when "Declare take-off and landing" was not selected, new waypoints would be incorrectly added in the wrong position.
- In the IGC Task Editor, dragging and dropping waypoints was not working on Firefox.
- After a FLARM Hub Firmware update, the Hub webapp needed a manual reload. Now the new version will be loaded automatically after the update.



## FLARM Hub version 1.20

Published 10 May 2021

**Build** cf28a52

**Minimum firmware** 7.04

### Changes since 1.00

#### Enhancements

- Support for Garmin TIS protocol on both data ports. When selected, the baud rate needs to be set to 9600 manually.
- New data port traffic and alarm simulator for testing the installation of FLARM displays, EFBs, and flight computers.
- IGC task declaration.
- Support for Naviter Oudie.
- Option to hide the disclaimer on the Traffic Monitor page.
- New configuration item for ADS-R and TIS-B.
- Configuration page is now friendly for printing.
- Wireless connectivity (Wi-Fi and Bluetooth) can now be disabled under configurable conditions (in-flight, with valid GPS, or after specific elapsed time since power-on).
- Various UI improvements.
- Improved translations.

#### Fixes

- Updating the Hub firmware would sometimes display an error despite successfully updating.
- Correct ground speed on the GDL 90 protocol.
- Range Analyzer now correctly displays a large radio range.
- Improved the Traffic Monitor, including non-directional traffic not being properly displayed.
- The virtual LEDs on the Status page now match the device LEDs.



- Commands including a dot were rejected by the Hub data port.



## Version 1.00

Published 2 November 2020

<b>Build</b>	d9973fbb
<b>Minimum firmware</b>	7.03

Initial release.