119-00119 SHP_01 Flightcell Service Bulletin: Firmware Upgrade 1.2.0

Product Details

- Part No. SHP_01
- Rev No. 1.2 onwards

Service Bulletin History

Document No.	Rev No.	Description	Effective Date	Jira No.
119-00119	1.0	Firmware Upgrade	10 Feb 2025	SHC-702 - Top Level task for SHC 1.2.0 FW Release In Progress

Planning Information

Reason

Firmware v1.2.0r1221 is a release incorporating new features:

- Live preview mode for USB cameras
- ARINC429 logging capabilities
- Possibility to offload only text data for faster downloads
- Improved audio/video synchronisation

And fixes for the following issues:

- Wi-Fi start-up
- Slow GPS updates when sourced from DZMx
- Locking the front panel management ethernet port to DHCP server mode

Prerequisites

The Firmware is suitable to be installed on Flightcell SHP_01 SmartHUB Revision 1.2 or greater.

Description

The new release of firmware for the Flightcell SHP_01 contains several new features and bug fixes..

The firmware release is issued as a single package file named smarthub-1.2.0r1221-upgrade.package

The firmware packages can be downloaded from our web page https://www.flightcell.com/support/firmware .

Follow the upgrade instructions outlined in the Accomplishment Instructions section to upgrade your unit.

Compliance

This firmware upgrade is Recommended.

This firmware is only suitable to be installed on Flightcell SHP_01 units.

Upgraded SHP_01 Revision 1.2 units and above must be marked/labelled on the outside of the unit with the appropriate software modification status letter from the following table:

SHP_01 Product Revision	Software Modification Status Letter
1.2	D
1.3	A
1.4	A

Approval

This service bulletin contains no modification information that revises the approved configuration and therefore does not require governmental or other regulatory agency approval.

Manpower

The manpower required to accomplish the procedures described in this service bulletin is detailed below:

Firmware Updates	20 Minutes
Verification	2 Minutes
Total Time Required:	Approx 22 Minutes

Accomplishment Instructions

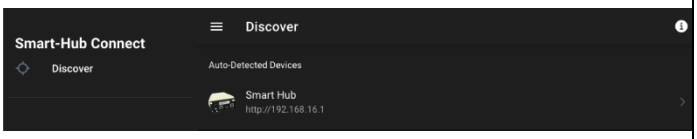
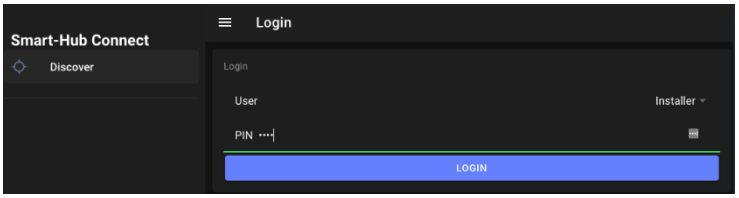
System Firmware Upgrade

Before commencing the upgrade

1. Download the correct firmware package file directly from: https://www.flightcell.com/support/firmware and save it to your local PC or laptop hard drive.
2. Ensure there is enough battery power to run the SmartHUB for at least 1 hour (SmartHUB draws approximately 0.28A at 28VDC).
3. Ensure that the front panel management ethernet port is currently configured as a DHCP server using the SmartHUB Connect web interface.

Failure to complete this step may result in an inability to access the device through the front panel ethernet port after upgrade.

1	Verify DHCP mode of front panel ethernet management port: This can be found by accessing the front panel UI and navigating to the MGMT IP in the Diagnostics section. Short press the button until the Diagnostics page is reached. Long press to enter the diagnostics section. Short press to advance until the MGMT IP screen. If the screen is as follows, no further action is required: *MGMT IP: 192.168.16.1* *Gateway:* *DHCP Server. Speed: 1000Mbps (or 100Mbps)* Otherwise complete the remaining steps	

2	Connect a laptop via ethernet cable to the front panel ethernet port	
3	Open a web browser and in the address/URL/location bar, enter the IP address: 192.168.16.1	
4	If a picture of a SmartHUB does not automatically appear in the auto-detected SmartHUB pane, then click on Discover and wait for the SmartHUB to appear.	
5	Click on the picture of the SmartHUB and login as installer	
6	Go to Settings->Network->Management	
7	Verify that Eth2 Address Mode is set to DHCP Server. Change if necessary.	
8	Re-power device for the change to take effect.	

To perform the upgrade

The upgrade may be performed via either;

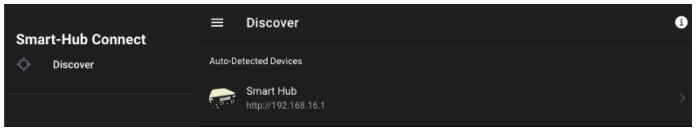
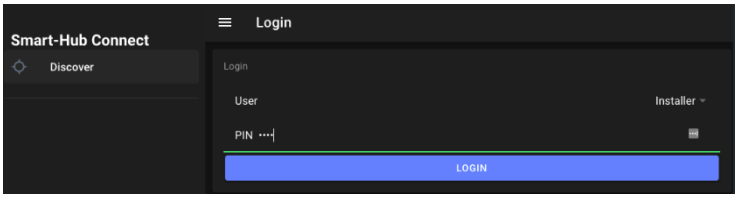
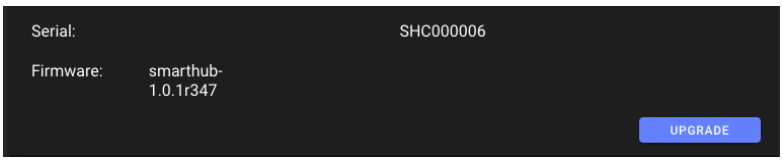
- Using a USB memory stick; OR
- Using the front panel ethernet port

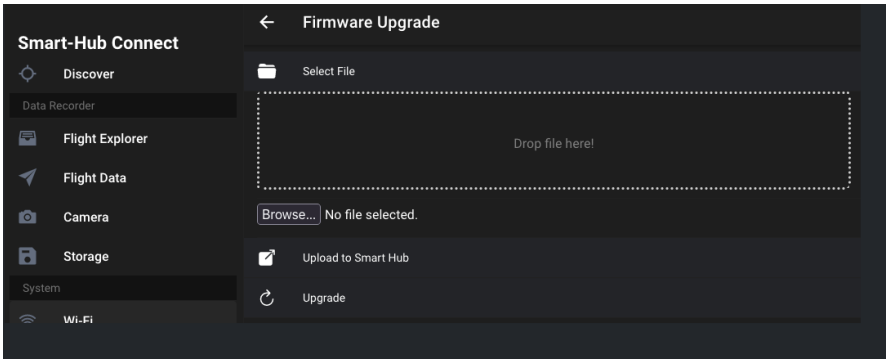
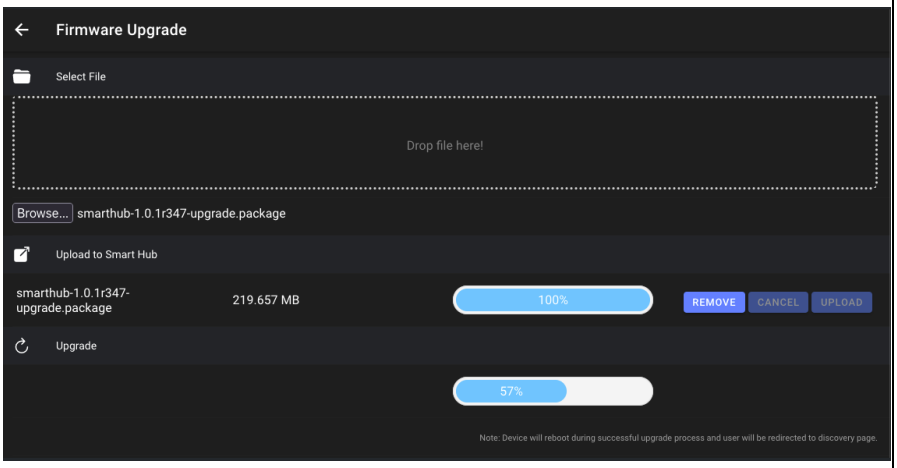
Upgrading the SmartHUB using a USB memory stick:

1	Copy the downloaded firmware package file to a USB memory stick. 1. The firmware package file must be copied to the root directory on the USB stick. 2. The firmware package file must be the only file with the extension .package on the stick.
2	Insert the stick into the bottom of the two stacked USB ports on the front panel.
3	After a few seconds a screen will appear saying USB Drive Mounted and asking user to long press to download flight data

4	Short press the button to advance to the upgrade screen
5	Long press the front panel button to commence the upgrade
6	Long press again to confirm the upgrade
7	Follow the prompts on the SmartHUB display.

Upgrading the SmartHUB using SmartHUB Connect (front panel ethernet port):

1	Connect a laptop via ethernet cable to the front panel ethernet port	
2	Open a web browser and in the address/URL/location bar, enter the IP address: 192.168.16.1	
3	If a picture of a SmartHUB does not automatically appear in the auto-detected SmartHUB pane, then click on Discover and wait for the SmartHUB to appear.	
4	Click on the picture of the SmartHUB and login as installer	
5	Navigate to the About page and under version information, check the firmware version	
6	Select the Upgrade button to proceed	

7	Select the firmware package file. Either: 1. Select Browse and locate where you copied the firmware package and select the file (by default, it would have been copied to your downloads folder). 2. Drag and drop the package file from another file explorer window into the 'Drop file here' boxed area.	
8	Click on UPLOAD then wait while the package is transferred to the SmartHUB	
9	Once the file has been fully uploaded the upgrade process will start automatically.	
10	After the upgrade, the SmartHUB will reboot automatically.	

Verification

After the upgrade process has completed, and the SmartHUB has rebooted, verify that the firmware upgrade has completed successfully.

Using the SmartHUB Front Panel:

1. Check the current SmartHUB firmware by pressing the button to cycle through until the diagnostics screen.
2. Long press the button to display the diagnostics screen and verify the displayed firmware

Using SmartHUB Connect:

1. After being redirected to the Discovery area, wait for the SmartHUB to fully reboot before re-discovering it.
2. Then follow instruction steps 4-10 above and check that the new firmware version is now 1.2.0r1221.

Additional Information

An updated version of the SmartHUB File Converter (Version 2.0.1) has been released alongside this firmware release. Please ensure this version is installed by anyone wishing to use the SmartHUB Flight Viewer application.

The version 2.0.1 release of the SmartHUB File Converter can be found at: SmartHUB File Converter Software - Version 2.0.1

Update nameplate

Label the unit with the appropriate Modification Status Letter. See the Compliance section above for details.

Approval

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Form No. F069 (R1) **Effective Date:** 29 Mar 2021