



**Release Notes**  
**Schroff Lower Fan Tray firmware part number 63998-52153**  
**Based on Pigeon Point Systems (PPS) BMR-H8S firmware release 2.0.1**

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**Release Date: Nov 27 2020**

**Introduction:**

The firmware package "63998-52153\_FW.zip" contains firmware release 2.0.1 for the H8S based fan tray.

**Release history:**

Release date	Schroff FW P/N	PPS version	Auxiliary Revision
February 14, 2012	63998-52151	BMR-H8S V2.0.1	6766
July 26, 2012	63998-52152	BMR-H8S V2.0.1	7236
Nov 27,2020	63998-52153	BMR-H8S V2.0.1	10155

**Preparation:**

**Firmware files**

Unzip the file 63998-52153\_FW.zip. This file contains the following images:

HPM.1 images

63998-52153\_hpm1all.img, Contains both the bootloader and firmware images.

63998-52153\_hpm1boot.img, Contains the bootloader image.

63998-52153\_hpm1fw.img, Contains the firmware image.

Upgrade images for serial interface connection

63998-52153\_install1.mot, Installs the fan tray FRU data.

63998-52153\_install2.mot, Installs the bootloader and firmware.

Upgrade images for IPMB upgrade

63998-52153\_upgrade.img, Contains the firmware image.

Upgrade FRU data file

21990124ABBIN.bin, The updated fan tray FRU data including the adaptive fan tachometer thresholds.

**Installation:**

The firmware may be upgraded from an external network connection by using the HPM.1 protocol with ipmitool or OpenHPI, by using h8sprg through the serial debug port on the fan tray, or by using the upgradefw tool from the Pigeon Point Shelf Manager.

An example command to upgrade the upper fan tray firmware using ipmitool is:

```
ipmitool -I lan -H 192.168.0.22 -A none -t 0x5c -b 0 hpm upgrade 63998-52153_hpm1all.img all
```

The adaptive fan tachometer sensor threshold feature that has been enabled in this firmware release requires the fan tray FRU data to be upgraded with the 21990124ABBIN.bin file.

The Pigeon Point Shelf Manager includes a tool, fru\_update, which will extract variables listed in Table-1 from the FRU data, write the new FRU data file to the FRU, and then replace the variables listed in Table-1.

Table-1, Saved variables

Variable Name	Area	Info
Serial number	[Board Info Area]	
Serial number	[Product Info Area]	
Mfg. Date/Time	[Board Info Area]	
Product Version	[Product Info Area]	
Asset Tag	[Product Info Area]	
	Internal Use Area	Complete

#### Syntax:

**sh /<path>/fru\_update <IPMC> <FRU ID> <path>/<filename>**

**<path>:** Location of the FRU files, default: **/var/nvdata**

**<filename>:** Name of the FRU file.

Example: 21990124ABBIN.bin

21990124: Shelf or FRU part number

AB: Revision of the FRU data file

BIN: Identification for a FRU data file

.bin Format of FRU data file

Example:

```
sh /var/nvdata/fru_update 5a 0 /var/nvdata/21990124ABBIN.bin
```

Writes FRU-data for the upper fan tray with part number 21990-124 into the upper fan tray SEEPROM and restores the variables listed in Table 1.

## Changes

### Release 2.0.1 (63998-52153):

#### Bug Fixes:

- Improved sensor reading

### Release 2.0.1 (63998-52152):

#### New and Changed Features

- Enabled adaptive fan tachometer thresholds. The fan tachometer threshold is now set to 70% of the expected fan RPMs each time the fan level is changed. This feature requires updating the fan tray FRU data.

#### Bug Fixes

- Corrected an issue where an unexpected interrupt could cause an IPMC WDT fault.
- Changed the Site Type to *Fan Tray* and the Entity ID to *Fan Tray or other cooling unit*.
- Increased the unresponsive shelf manager timeout to 65 seconds so that the fan level will remain low until the shelf manager boots.
- Corrected an issue where the red LED would briefly turn on if the fan level was increased or decreased by more than one level.
- Corrected the TELCO alarm interface Major/Minor reset input pinout.
- Corrected an issue where the Shelf Manager could interpret a deactivated fan tachometer sensor as having a low reading and cause an alarm.



**Release 2.0.1 (63998-52151):**

**New and Changed Features**

- None

**Bug Fixes**

- None