



MegaFi Software Update Guide



Contents

About this Guide	3
Step 1: Download Latest MegaFi Software	3
Step 2: Extract Zip Files	3
Step 3: Connect MegaFi to PC	3
Step 4: Access Mission Control	3
Step 5: Navigate Past Connection Warning Screen	4
5.1 Click the 'Advanced' Button	4
5.2 Click URL on Screen	4
Step 6: Log In to Mission Control.....	5
6.1 Enter Password and Log In.....	5
Step 7: Accept End User License Agreement	6
Step 8: Change Router Password	7
Step 9: Download Latest MegaFi Software.....	7
Step 10: Upload Software	8
Step 11: Verify Checksum File.....	9
Step 12: Continue to Flashing Window.....	10
Step 13: Log In to Proceed	10
Step 14: Verify Firmware.....	11

About this Guide

This guide offers step-by-step instructions for updating MegaFi software. Please follow these instructions to update your MegaFi software prior to installation or in the event of post installation as needed.

Note/Warning: This document is for updating the software on SHIELD MegaFi units **ONLY**. If you have a previous HPUE device – like the AW12+EI, **DO NOT USE THIS**, as it will brick your unit.

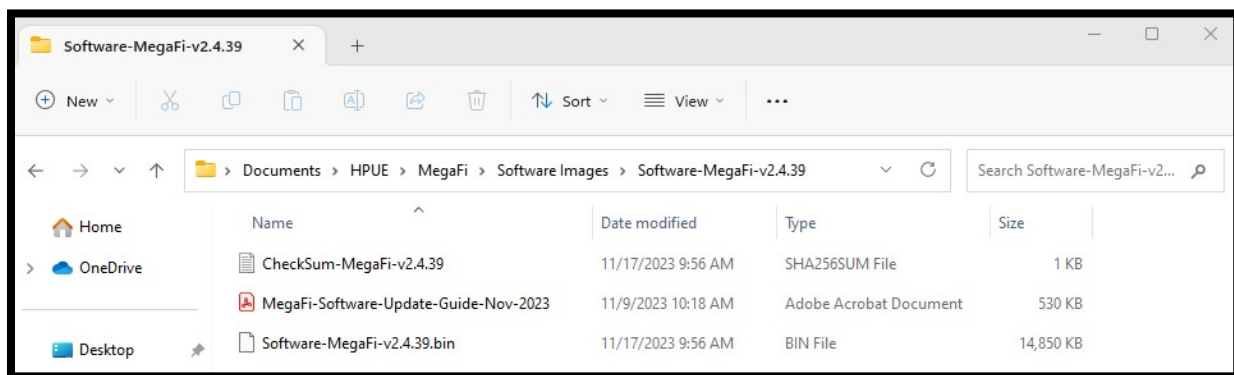
Step 1: Download Latest MegaFi Software

Select the following link to download the latest MegaFi software package (zip file) from the [Nextivity Product Support](#) page under the FirstNet HPUE tab to a local Windows 10 or Windows 11 computer.

Step 2: Extract Zip Files

Unzip/Extract the zip file/folder. You will see three extracted files:

- 1) A checksum file (Example: CheckSum-MegaFi-v2.4.39)
- 2) The upgrade file itself (Example: Software-MegaFi-v2.4.39.bin)
- 3) This upgrade instruction document



Step 3: Connect MegaFi to PC

Connect an Ethernet cable between the PC and the LAN port on the MegaFi.

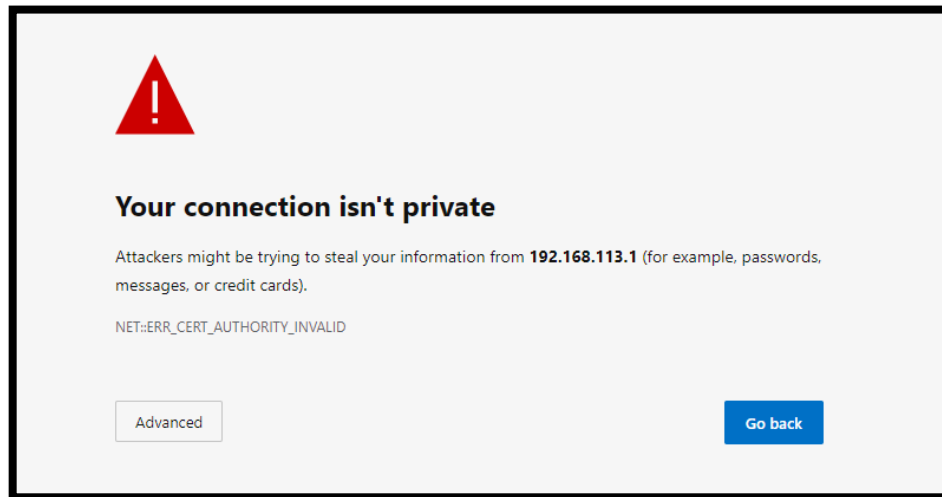
Step 4: Access Mission Control

Open a web browser and navigate to the following URL: <https://192.168.113.1/cgi-bin/luci/>

Note: The above IP address is MegaFi's default login to its GUI called Mission Control. If the device's IP address was previously changed, use that instead.

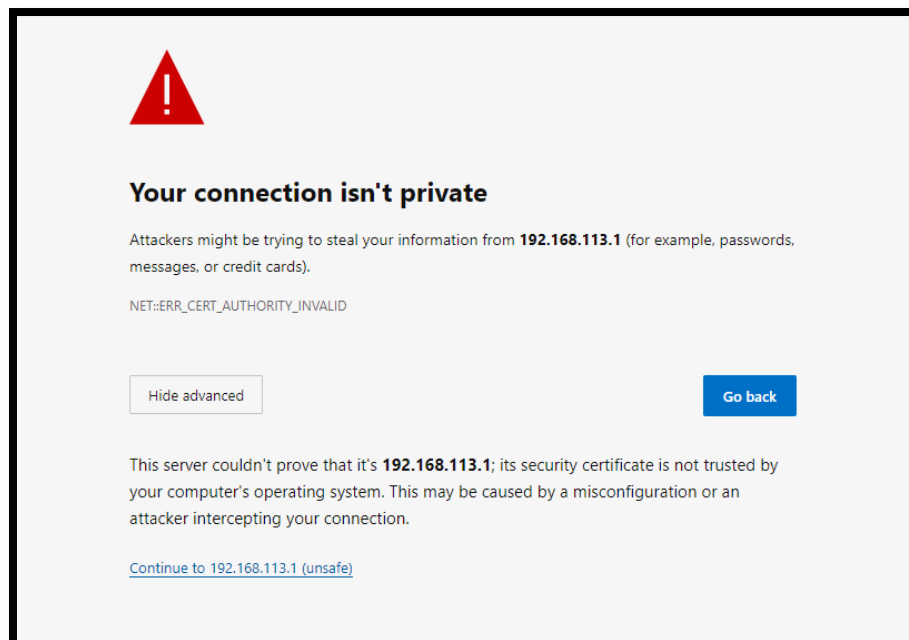
Step 5: Navigate Past Connection Warning Screen

The first time you try to connect to the MegaFi, a connection warning screen will display as shown below. If so, follow the steps below to get past the warning screen. Otherwise, skip this step.



5.1 Click the 'Advanced' Button

A second warning screen will display:



5.2 Click URL on Screen


Click the '**Continue to 192.168.113.1 (unsafe)**' link at the bottom.

Step 6: Log In to Mission Control

The MegaFi's Mission Control GUI login page will now be displayed.



The image shows the Mission Control GUI login page. At the top, there's a black header with the text "Mission Control" in white. Below this is a light blue background. In the center, there's a white box containing the "Current Status" section and a "Log In" section. The "Current Status" section has a table-like layout with six columns: Connected, Signal Strength, Band, Access Point Name, WAN IP Address, and Local IP Address. The "Log In" section has a form with fields for Username and Password, and buttons for Login and Reset.

Connected	Signal Strength	Band	Access Point Name	WAN IP Address	Local IP Address
 FirstNet	 (Good)	14	 firstnet-broadband	10.2.46.225	192.168.113.1

Log In

Please enter your username and password.

Username

Password

6.1 Enter Password and Log In

- 1) Enter the password that is on the label on the bottom of the MegaFi that you are updating, unless it was previously changed, use that instead.

Note: Username defaults to: **admin**

- 2) Click the '**Login**' button.

Step 7: Accept End User License Agreement

When logging in for the first time, the EULA (End User License Agreement) will be displayed. Fill out the requested information and click **'Accept'** to continue. Otherwise, skip this step.

End User Licence Agreement

Nextivity Inc. ("Nextivity")
End User License Agreement ("EULA")
Version Date: July 25, 2023

BY ACCEPTING THIS EULA, EITHER BY INDICATING YOUR ACCEPTANCE, BY EXECUTING A QUOTE OR ORDERING EQUIPMENT OR SERVICES DIRECTLY WITH US OR THROUGH AN APPROVED NEXTIVITY DISTRIBUTOR OR RESELLER (HOWEVER TITLED, REFERRED TO HEREIN AS AN "ORDER"), OR BY DOWNLOADING, INSTALLING AND/OR UTILIZING ANY OF THE SERVICES (DEFINED BELOW), YOU AGREE TO THE TERMS AND CONDITIONS OF THIS EULA. THIS EULA IS A LEGALLY BINDING CONTRACT BETWEEN YOU AND NEXTIVITY AND SETS FORTH THE TERMS THAT GOVERN THE LICENSES PROVIDED TO YOU HEREUNDER. IF YOU ARE ENTERING INTO THIS EULA ON BEHALF OF A COMPANY OR OTHER LEGAL ENTITY, YOU REPRESENT THAT YOU HAVE THE AUTHORITY TO BIND SUCH ENTITY TO THIS EULA. ANY CHANGES, ADDITIONS OR DELETIONS BY YOU TO THIS EULA WILL NOT BE ACCEPTED AND WILL NOT BE A PART OF THIS EULA. IF YOU DO NOT AGREE TO THIS EULA, YOU MUST NOT DOWNLOAD, INSTALL, OR USE THE SERVICES.

This Nextivity End User License Agreement ("EULA") is between Nextivity (or "we" or "us") and the user ("User" or "You" or "Your") of the Services, as defined below. This EULA applies to Your use of:

- (1) the Nextivity equipment ("Equipment");
- (2) the Nextivity on-premises, installed software that initialize and enables the Equipment ("Installed Software");
- (3) the Nextivity cloud-based software that allows You to manage and configure Your Equipment ("Cloud Software");
- (4) the written and visual materials Nextivity may provide to aid You in Your use of the Equipment, Installed Software and Cloud Software ("Documentation"); and
- (5) any training or support services performed, either remotely or in person, by Nextivity ("Support"). The Installed Software and Cloud Software may be referred to together as the "Software." The Software, Equipment, Documentation and Support may be referred to collectively as the "Services." This EULA also incorporates any Equipment-specific terms that may apply to the Equipment You acquire ("Supplemental Terms").

Section 1. Using the Services

1.1 License and Right to Use. Nextivity grants You a non-exclusive, non-transferable, non-sublicensable, revocable (a) license to use the Installed Software; (b) right to use the Cloud Software; and (c) right to use the Documentation solely in connection with Your use of the Software and Equipment, each as acquired from Nextivity or an approved reseller or distributor of Nextivity ("Approved Provider"), solely for Your internal business purposes during the Usage Term (as defined in Section 1.6 below), subject to the terms of this EULA and the applicable Order (collectively, the "Usage Rights"). Nextivity reserves all rights, title, and interest in and to the Services, including all related intellectual property rights, subject to the limited rights expressly granted hereunder.

First Name

Last Name

Company (optional)

Phone (optional)

E-Mail

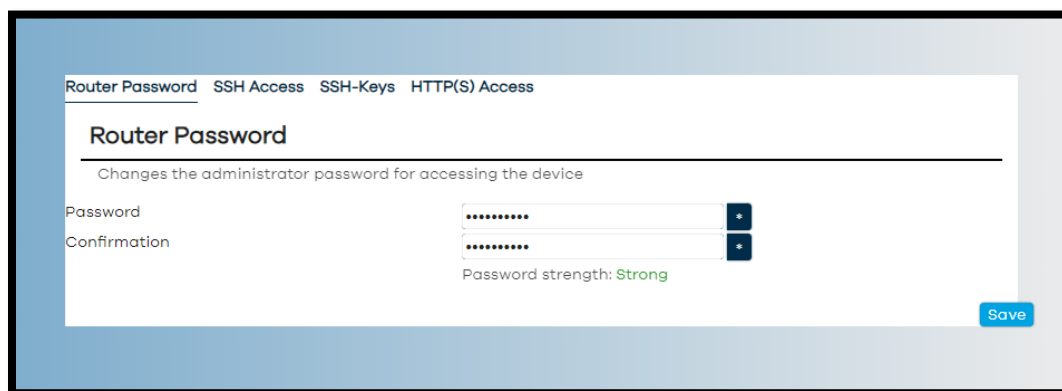
Step 8: Change Router Password

If logging in for the first time, the '**Router Password**' window will open and requires the user to change the default password. Otherwise, skip this step.

- 1) Enter the new desired password.

Note: The device will not accept **weak** passwords. Password must meet the following requirements: a minimum length of 10 characters and a randomized complexity of lowercase letters, uppercase letters, and numbers.

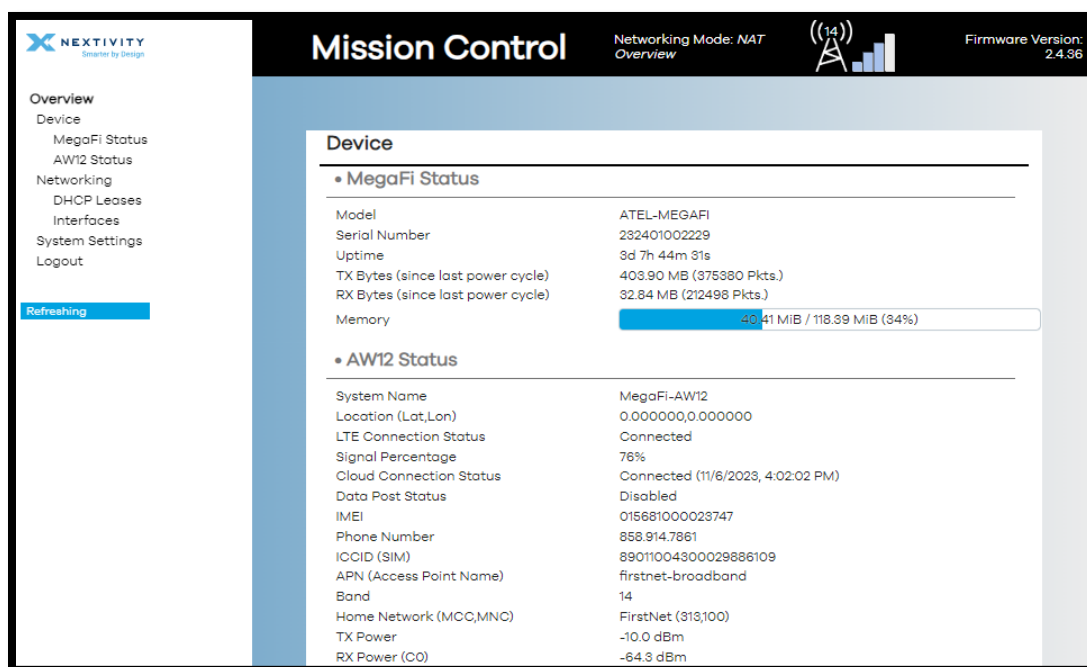
- 2) Click the '**Save**' button.



The screenshot shows the 'Router Password' configuration page. At the top, there are tabs for 'Router Password', 'SSH Access', 'SSH-Keys', and 'HTTP(S) Access'. The 'Router Password' tab is active. Below the tabs, the title 'Router Password' is displayed, followed by the subtitle 'Changes the administrator password for accessing the device'. There are two password input fields: 'Password' and 'Confirmation'. Both fields contain masked characters (dots). To the right of each field is a small blue icon with a plus sign. Below the 'Confirmation' field, the text 'Password strength: Strong' is displayed in green. A blue 'Save' button is located in the bottom right corner of the form area.

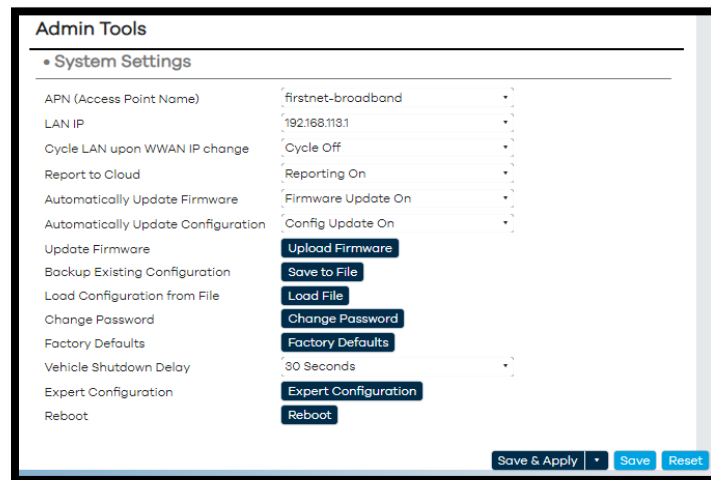
Step 9: Download Latest MegaFi Software

- 1) Mission Control will now display the device Overview page.



The screenshot shows the 'Mission Control' interface. At the top, there is a header bar with the 'NEXTIVITY' logo on the left, the title 'Mission Control' in the center, and 'Networking Mode: NAT Overview' on the right. To the right of the title is a signal strength icon and the text 'Firmware Version: 2.4.36'. Below the header, there is a left sidebar with a menu. The menu items are: Overview, Device, MegaFi Status, AW12 Status, Networking, DHCP Leases, Interfaces, System Settings, and Logout. The 'Overview' item is highlighted. Below the menu is a blue button labeled 'Refreshing'. The main content area is titled 'Device' and contains two sections: 'MegaFi Status' and 'AW12 Status'. The 'MegaFi Status' section displays the following information: Model (ATEL-MEGAFI), Serial Number (232401002229), Uptime (3d 7h 44m 31s), TX Bytes (since last power cycle) (403.90 MB (375380 Pkts.)), RX Bytes (since last power cycle) (32.84 MB (212498 Pkts.)), and Memory (40.41 MiB / 118.89 MiB (34%)). The 'AW12 Status' section displays the following information: System Name (MegaFi-AW12), Location (Lat,Lon) (0.000000,0.000000), LTE Connection Status (Connected), Signal Percentage (76%), Cloud Connection Status (Connected (11/6/2023, 4:02:02 PM)), Data Post Status (Disabled), IMEI (015681000023747), Phone Number (858.914.7861), ICCID (SIM) (89011004300029886109), APN (Access Point Name) (firstnet-broadband), Band (14), Home Network (MCC,MNC) (FirstNet (313,100)), TX Power (-10.0 dBm), and RX Power (C0) (-64.3 dBm).

- 2) Scroll to the bottom of the page and click the **'Upload Firmware'** button.



- 3) The **'Uploading file...'** window will display:



- 4) Click the **'Browse...'** button to locate the upgrade file for this example, downloaded in Step 1. Select it and click **'Open'** to proceed.

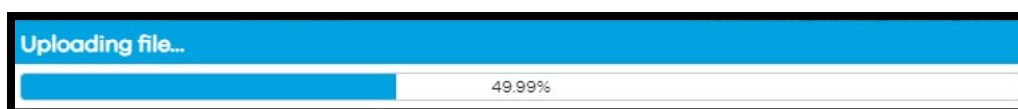
Step 10: Upload Software

- 1) After selecting the file, you will be returned to the **'Uploading file...'** window.



- 2) Click the **'Upload'** button.

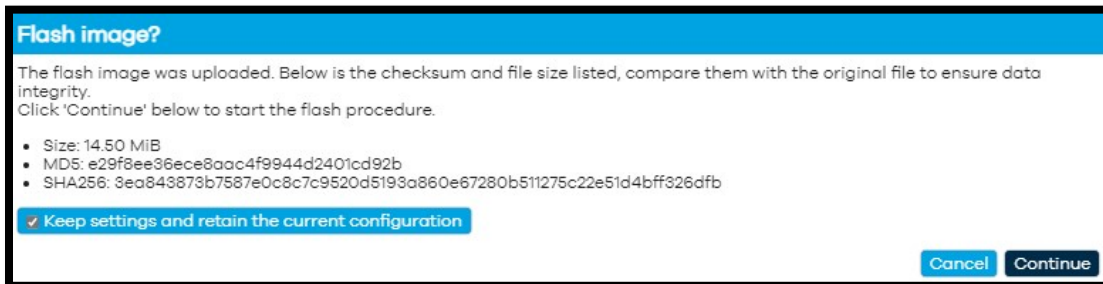
Note: The file will be uploaded, during which a progress bar is displayed:



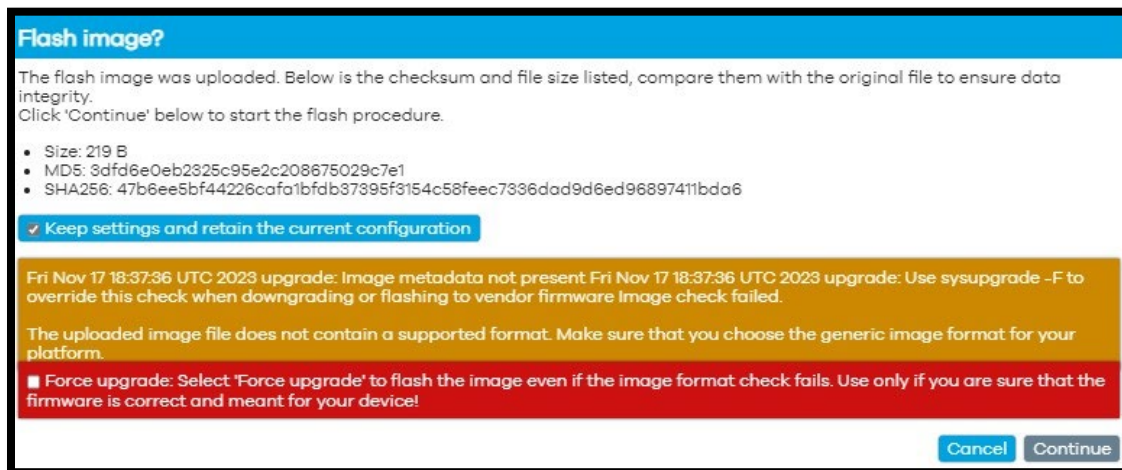
Step 11: Verify Checksum File

After the file uploading completes, the 'Flash image?' window will display.

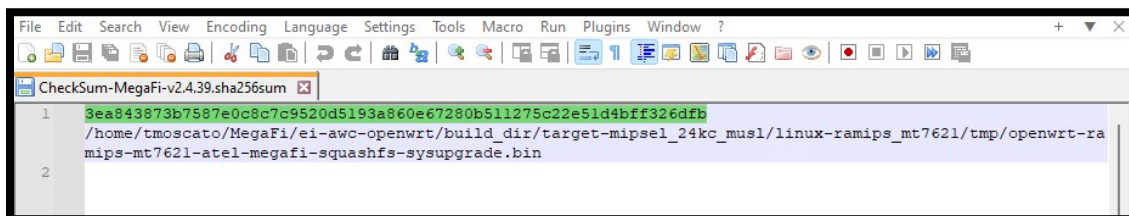
- 1) Manually verify the checksum file listed on your screen with the supplied checksum file downloaded in step 1. This will be the SHA256 alpha-numeric value on the Flash image display below:



Note: If you accidentally try to upload the wrong file or try to upload the correct file to an AW12+EI device, a warning screen will be displayed (see example below). If this happens, **STOP - DO NOT PROCEED**. Select 'Cancel' to back out of this operation and avoid "bricking" your device.

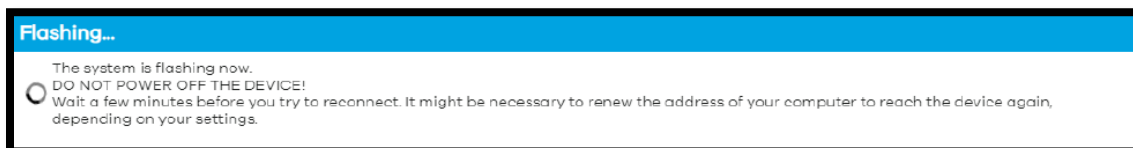


- 2) Verify the value inside the checksum file (first line below highlighted in green). Make sure they match before proceeding.



Step 12: Continue to Flashing Window

- 1) Click the 'Continue' button.
- 2) The '**Flashing...**' window will display.



WARNING: "Do not power off the unit until the image flashing is complete."

Note: The update will take between 5 to 15 minutes.

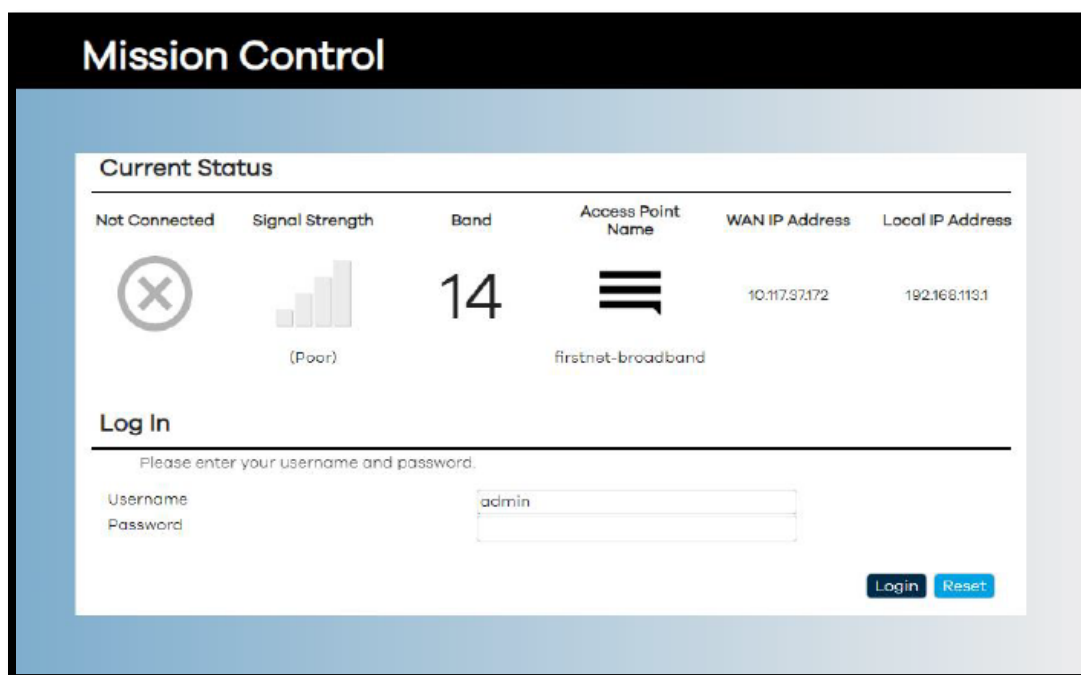
Step 13: Log In to Proceed

When the image flash is complete, you will be taken back to the login page.

- 1) Log in to continue.

Note: Current status may initially display 'Not Connected' and no 'Signal Strength'. It will correct itself once the device properly boots up from the upgrade process.

Note: Refresh the browser if the device has not gone back to home screen after 10 minutes.



Step 14: Verify Firmware

The Mission Control page will display.

- 1) Verify that the intended firmware upgrade successfully loaded by looking at the top right corner of Mission Control. Once verified, software update is complete.

