

# OmniaONE Software Update / Style Conversion Procedure

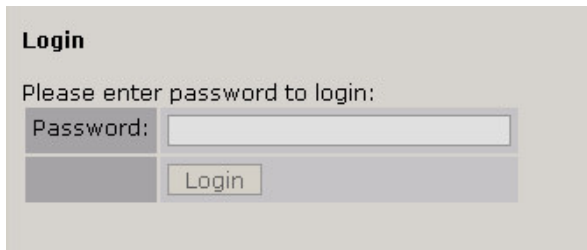
## Special Note:

When updating an OmniaONE unit to version 2.x from version 1.1 or earlier, you must update the unit to version 1.2 first (using the procedure below), run version 1.2, and then update the unit again from v1.2 to v2.x (repeating the procedure below a second time). Please contact Omnia Support to obtain the v1.2 update file.

The procedure to update to the current version of software within a given style (AM, FM, Studio Pro or Multicast) or conversion to a different style are the same and are performed over an Ethernet connection using any standard Web Browser using an update file downloaded from the Omnia website. The OmniaONE contains two software banks and the new software is always uploaded to the inactive bank. This is a safeguard against loss of power or other interruption during the update. In this event, the OmniaONE should still boot into the active bank containing the “old” software (but it is best to avoid interruptions in any case).

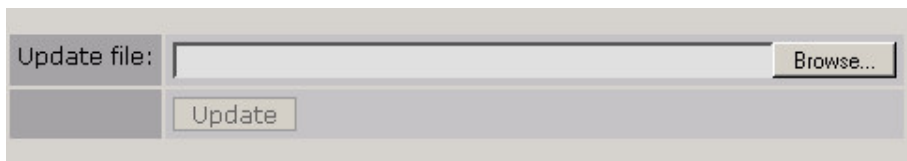
To update or convert the OmniaONE software proceed as follows:

1. Download and unzip the OmniaONE software update file (.oup) obtained from the Omnia website at: <http://www.omniaaudio.com/software> and save it to a convenient location on your computer.
2. Make sure your OmniaONE’s Network Configuration settings have been entered appropriately for your network (see [Network Configuration](#) on Page 35 in the Omnia ONE User Manual for details) and connect your OmniaONE’s Ethernet (Livewire) jack to your Ethernet network using a standard Cat.5 cable or directly to a computer using a Cat.5 crossover cable.
3. Open a standard Web Browser on your computer and connect to the OmniaONE by entering: <http://xxx.xxx.x.xxx/> in the browser’s address bar where the x’s in the example above are replaced with the OmniaONE’s IP address. Once connected you should see the Login screen shown below. Enter the Password (the default is “**omnia**” – all lower case) and click on the “**Login**” button. (Or simply press “Enter”)

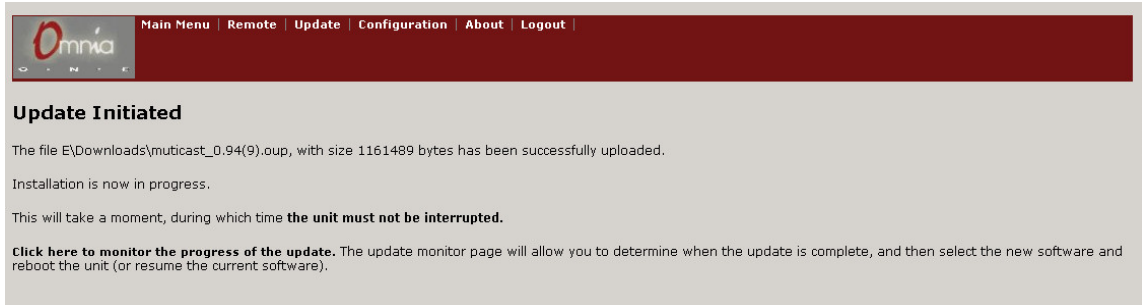


4. The Main Menu should appear. Click on the “**Firmware Update**” link option.
5. The “**Confirm Firmware Update**” screen should appear with the following warning:  
“Performing an update requires the controls and meters for the audio processor to be stopped. On-air audio will not be interrupted during the update. However, a reboot is required to activate the new software, and this will interrupt the audio. At the end of the process, you will have the option to change the current boot bank (to activate the new software) and reboot or to keep running the current software and reboot later. Do you want to continue the update process?”

If you would like to proceed after reading the warning message, click the “**Continue**” button and the “**Update File**” dialog should appear:

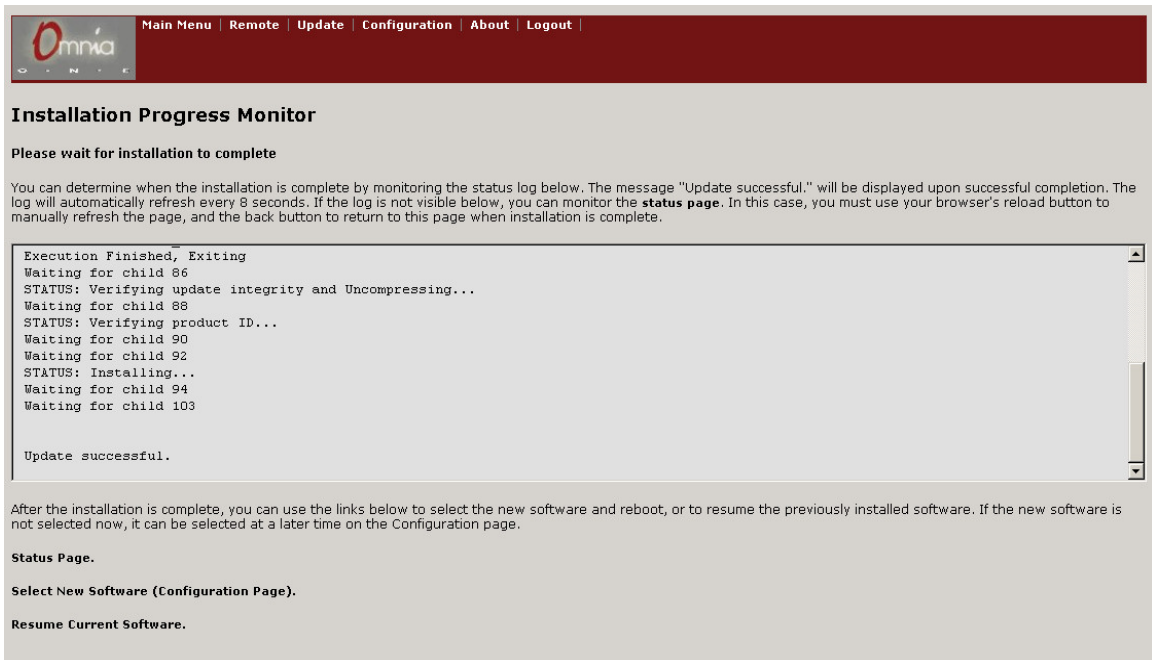


- Click the **“Browse”** button, locate the software update file downloaded and saved to your computer in Step 1, double-click it so that it appears in the **“Update File:”** box, and then click the **“Update”** button. The file will now be uploaded to the OmniaONE. This may take up to 5 minutes. A progress bar may or may not appear, depending on the browser being used but once the file is successfully uploaded to the OmniaONE, the following **“Update Initiated”** screen should appear:



- Now the software bank that is not currently in use will be updated with the new file. Read the **“Update Initiated”** screen and then click on the link: **“Click here to monitor the progress of the update.”**

The **“Installation Progress Monitor”** screen should appear:



The log box on this screen will be automatically refreshed every 8 seconds.

**NOTE:** If the log box does not show up on your browser, you can click on the **“Status Page”** link option to display an alternate status log. In this case, you must use your browser’s **“Reload”** button to manually refresh the Status page, then the **“Back”** button to return to this page when installation is complete.

When **“Update Successful”** appears at the bottom of the log (as shown), the update has been installed and is ready to be selected. Note: To see the **“Update Successful”** message, you may have to manually scroll to the bottom of the log using the scroll bar or scroll arrows on the right edge of the log window.

- Once the **“Update Successful”** message appears at the bottom of the log, click on the link: **“Select New Software (Configuration Page)”**
- Scroll down the Configuration page to find the **“Select Software Bank:”** section:

**Select Software Bank:**

Choose the software bank that will run the next time that the audio processor is re-booted. This will have no effect until re-boot, which can be done below, or by cycling power. Note that you must select the newly installed software bank after a software update in order for the new software to run.

<input type="radio"/> Bank 0	Version: FM: 0.93 (28)
<input type="radio"/> Bank 1	Version: FM: 0.95 (1)
Running Software:	Version: FM: 0.93 (28)
<input type="button" value="Apply"/>	

In this example, the new software has been uploaded to Bank 1.

You will notice that the previous software (Bank 0 in this case) is still selected and running.

You can choose to change to the other bank to activate the new software or keep running the current software and reboot later.

**NOTE:** A reboot is required to activate the new software, and this will interrupt the audio.

From the “**Select Software Bank:**” section, click the “radio button” of the Bank that contains the new software version and click the “**Apply**” button. In this example, we decided to go ahead and activate the new software so we clicked on the “**Bank 1**” radio button and then clicked “**Apply**”:

To activate the selected bank now, click the “**Reboot Processor**” link option. The processor will reboot and the new software will be activated.

To continue running the previous version, click the “**Return to Configuration**” link option instead. When you are ready to activate the new version, return to the Configuration page and repeat Step 9.

Once activated, the new version should appear as the “**Running Software:**” version:

<input type="radio"/> Bank 0	Version: FM: 0.93 (28)
<input checked="" type="radio"/> Bank 1	Version: FM: 0.95 (1)
Running Software:	Version: FM: 0.95 (1)
<input type="button" value="Apply"/>	

10. You may now close your browser. The software update is complete.

**NOTE:** You may need to repeat this procedure if updating from v1.1 or earlier to v2.0 or later. Please see the **Special Note** at the start of this document

## Brief Summary of Changes and New Features

### OmniaONE v2.7 (as of September, 2014)

- First official release of ONE stereo generator (SG) style. Implements the same stereo generator as the Omnia.11; SSB capable, distortion-cancelled composite clipping. No processing.
- Input meter for SG style only has a “zoom” feature: Above -12 dBFS input level (which corresponds to 100% modulation) each segment represents 0.1dB instead of the usual 2dB. This makes it easier to set the input level precisely.
- Switchable LPF on SG style only has a wide skirt to allow use with clipping systems that generate spectrum above 15kHz while still protecting the 19kHz pilot.
- Composite clip meter on SG style with 4dB range.
- Various fixes to allow the Java remote to work everywhere, especially with Java 7 and 64-Bit Java.
- New pre- and de-emphasis filters in the FM style that are amplitude matched to the ideal analog prototype to within about 0.05dB.
- New BS-412 system in the FM style that allows the output to more tightly maintain the 0dB mark with a wide variety of program material, mono or stereo. New presets have been added that are optimized to best drive the BS-412 limiter.
- New presets have been added for the Multicast style.
- Added logo for Axia iProbe.
- Enhanced resolution of the front panel meter displays. This is most noticeable on the composite clip meter because of its smaller range.
- Fixed bug where unit may not start up all the way on the initial boot after changing the running style.
- Added security option (located under Administrative / Security / “Rem Comp L” on the front panel only) to disallow remote control of several composite output controls. If this option is engaged, the remote will not be able to set the composite 1&2 output levels, the pilot level or the pilot phase. Also, the webpage will not be able to change the network configuration, remote port and password plus will not be able to upload I/O Configs to the unit.
- Fixed bug where IN 1 Go Hi preset (if configured) would be selected on every boot.
- Added a heartbeat signal on Pin 2 of the “RS-232 Aux” connector that is active whenever the microprocessor is running.
- Fixed bug where remote reboot would not return a complete web page to the browser.
- All data is now completely separated for each style (I/O Configs and State as well as Presets).

### OmniaONE v2.6 (as of May, 2011)

- Added an optional 5<sup>th</sup> Limiter band to the FM style only. The high band splits after the AGC section feeding the high-band limiter and optionally feeds a new super-high-band crossover and super-high-band limiter. The new super-high-band is defeatable, causing super-high band audio to be fed to the high-band limiter, as if there was no new crossover or limiter present. By default, the super-high-band is defeated in all factor presets. If engaged, the processing settings (attack, release etc.) have been copied over from the high-band settings but can be modified independently if desired.
- Added immediate failover on detection of loss of AES/EBU carrier signal, when AES is the primary input (and failover is enabled).

- Failover thresholds are now fully adjustable from the front panel or remote. The “absolute thresh” controls the input level below which both the L&R input channels must go (and remain for the failover time period) for a failover to occur. The “relative thresh” defines a difference in level between the primary and secondary inputs. If either channel of the primary input goes this far below the level of the corresponding channel of the secondary input and remains there for the failover time, failover will occur.
- Failover time is now adjustable in 1 second steps instead of 5.
- “Failback” to primary time is now adjustable from the front panel or remote.
- Added a button to the remote to manually clear the failover state, forcing it back to the Primary input.
- Added a “Failover Options” sub-panel to the front panel and remote’s Input menu due to the number of new failover controls.
- Added new presets developed by Cornelius Gould.
- Added limited support for the rear-panel GPI port. Please contact Omnia Support for details.

#### **OmniaONE v2.3 (FM STYLE ONLY) (as of February 24, 2009)**

- Fixed bug where IP addresses entered on the configuration page (of the web interface) were limited to 14 characters total. It requires 15 characters to enter 4 3-digit numbers with “dot” separators.
- Removed unused lpf\_tilt\_freq parameter from all factory preset files (the lpf filter is always 15k for FM; this parameter did nothing).

#### **OmniaONE v2.2 (as of January 5, 2009)**

- Added support for Axia iProbe application.
- Incorporated changes from AM/Multicast/Pro version 2.1 into the FM style (this includes bugfixes for Ethernet remote access via a firewall).
- Added 3 new presets to the FM style: HotAC, ModernRock and TripleA.