

## Updating Master Controller Firmware

9/8/06

**Caution:** The following procedure will cause one or more brief disruptions in intercom service. Upgrade procedure should be performed during non-critical periods of intercom usage.

*Read & understand entire procedure before performing upgrade*

This procedure is written using the Status \ Software Versions \ Master Controllers screen in AZedit and AZedit version 3.0.4.

1. Connect to the intercom system via AZedit and make sure that SERVER mode is deactivated under Options/Preferences.
2. Before proceeding, **SAVE** your current intercom setup to disk. (**VERY IMPORTANT**)
3. Next, just in case, make note of your current settings under:

### **Options \ Preferences \ Advanced**

Note settings and click CANCEL to exit

### **Options \ Intercom Configuration**

Be very careful in this screen. When the **WARNING** pops up, click ok then make note of settings under both, the Resources & Options tabs. **DO NOT** change any settings unless you are absolutely certain of what you are doing. After noting the settings, click CANCEL to safely exit without making any changes.

4. Un-plug one Master Controller so that there is only one active in the ADAM frame.
5. From the top tool bar, select Status/Software Versions/Master Controllers. You may have to expand the Version column to view complete lines of the version stats.
6. Highlight the Master Controller, right click on it with the mouse, and select the Download Firmware pop-up.

**NOTE:** If right mouse click does not work, firmware download may be disabled. To enable this feature, go to the Options menu and select Preferences. Then, click on the Advanced tab. In the Advanced settings, place a check next to Allow firmware download, then click Apply. Click OK to exit. You should now be able to use the firmware download feature. Repeat step 6, above.

7. From the pull-down menu at the top of the Firmware Download dialog box, select the folder or file to be downloaded. It will be something like "adam\_mc.hex" file. Double click on the ".hex" file to download.

## Updating Master Controller Firmware

8. A Device Download Firmware dialog box will now appear. Click on Begin Download.

A progress bar will appear and when at 100%, wait until the Master Controller Version displays the updated version. When it does, the upgrade to that Master Controller is complete. Also, in the Status/Master Controller & Status/Standby Controller pull-down, it should display the slot position (left / right) and Status "Cur".

If there is any disruption in the communications link during the download, you will get an error message. In this case, repeat the download.

ADAM CS or Single-Frame ADAM Systems: Allow 1 or 2 minutes for the update to complete. You may also see a message that the intercom connection has been lost. If this happens, wait about 15 to 30 seconds, and then click Retry to restore the connection. You may have to do this once or twice.

9. Next, proceed to the next Master Controller by un-plugging the newly updated Master Controller and carefully inserting the other Master Controller. Wait about one minute for the Controller to stabilize.
10. Repeat previous steps 4 – 8 (above) for the remaining Master Controller.

When the file has been 100% downloaded, the master controller will begin processing the update. Important: Any disruption at this point, such as a loss of power, removing or resetting cards (ADAM, ADAM CS) etc. will result in master controller failure. *If this happens, you will either have to return the affected unit for replacement, or you will have to remove the EEPROM chip(s) U2 & U4 from the affected unit and manually reprogram them with an EEPROM programmer.* Also, ADAM and ADAM CS users, do not proceed further with the update of any more cards until you identify the problem.

**NOTE:** Depending on the differences between the old and new firmware, your intercom system may perform a "first birthday reset". For an ADAM CS Intercom System, this means that the intercom configuration settings in your master controller will be reset to the default size for an ADAM CS Intercom System. In a single-frame ADAM Intercom System (ADAM-136) this means that the intercom configuration settings in your master controllers will be reset to the default size.

If you previously customized your intercom configuration settings, you will have to redefine these in the master controller. To check the master controller intercom configuration, make sure that you are ONLINE, and then access Intercom Configuration setup under Options. Then, if the resource configuration is not correct for your intercom system size, perform the necessary changes in Options/Preferences and/or Options Intercom Configuration. Also **NOTE**; any change under the Intercom Configuration window will cause a 1<sup>st</sup> Birthday on the system (erasing all current settings) and you will need to re-load the intercom setup file you saved in step 2 above.

This completes the procedure to update an ADAM CS or single-frame ADAM intercom system. Note that the new firmware version should display in the Master Controller Version Information screen.

\* \* \* \*

**TELEX Communications**  
updating mc.doc  
9/8/06  
GB