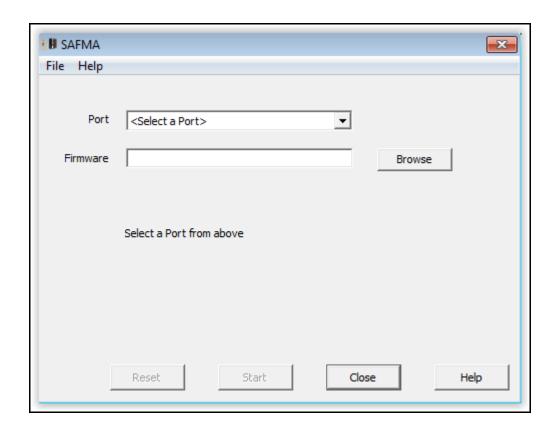
## TalkMaster™ FOCUS

# StandAlone Firmware Management Reference Manual





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#### **Getting Started**

#### Welcome

Welcome to the TalkMaster Focus StandAlone Firmware Management Application (SAFMA). SAFMA is designed to update Firmware in an IP7 IP Endpoint via the USB Port. It should only be used when the Firmware Management Console is unable to flash update IP7's over the network.

#### **Release Notes**

June 2017

Modified Phase 1 Serial communications to work with Windows 10 latest updates

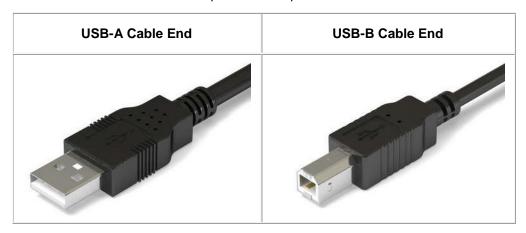
February 2012

Initial Release

#### Overview

Stand Alone Firmware Management App is a utility used to update Firmware in the IP7 via the USB Port. It should be used in instances where the Firmware Management Console is unable to flash update IP7's over the network (usually due to a failed firmware upgrade).

A PC with a USB A-B cable is required for this procedure.

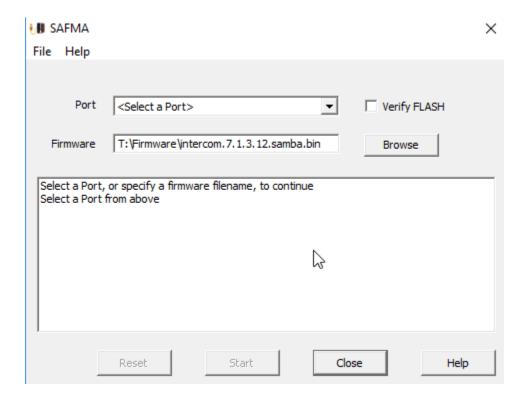


Running SAFMA consists of two phases:

- Phase 1 The existing firmware must be erased. Erasing the Firmware does not alter the IP7's configuration information
- Phase 2 The new firmware is flashed into the IP7 via the USB Cable

The entire process should take less than 1 minute for each IP7

#### ${\bf Talk Master FOCUSS tand Alone Firmware Management App}$

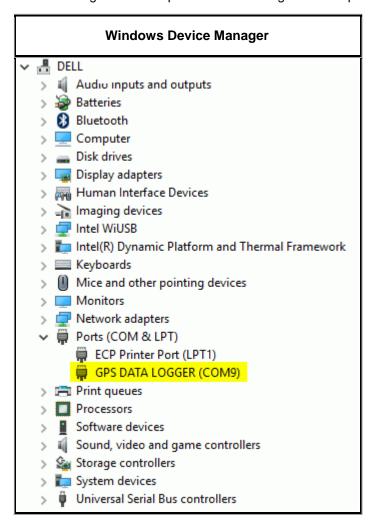


### Flash Upgrading

#### **Device Driver Installation**

When a USB Device is plugged into a the computer, Windows should automatically load a driver that will work with SAFMA.

- Plug the IP7 into the computer using a USB cable. On Windows 7 and Windows 10, the IP7 will enumerate as a GPS DATA LOGGER during Phase 1
- Once the driver has been installed, open the Windows Device Manager to confirm settings for using Windows Update can be changed to their previous settings



The **COMx** number that is created will vary based on the devices that are already installed on the computer. The USB Driver needs to be installed each time a different USB-A port on the PC is used, so always try to use the same USB-A port on the PC

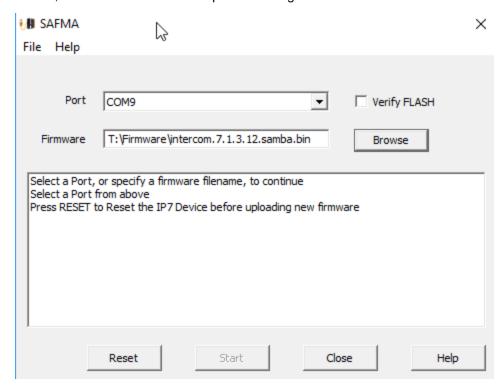
#### Phase 1 - Reset

In Phase 1, the current firmware is wiped and the IP7 is prepared for Phase 2. This process does not affect the IP7's configuration information.

To begin, download the IP7 firmware from the Digital Acoustics Website under the Support >> Software/Firmware Downloads page. Unzip the contents to a folder on your desktop so it can be easily found.

From the Windows Start menu, open Stand-alone Firmware Management application:

- Unplug the IP7 from its external power or PoE network cable
- Plug a USB cable into one of the USB-A ports on the PC
- Plug the other end of the USB cable into the USB-B port on the IP7. This will power up the IP7 (the IP7-MZC-FD will need to be powered via a external 12VDC power supply). Wait at least 15 seconds before proceeding
- After the PC has recognized the USB device, the COMx port should be shown in the Port field. If
  is not, then select it from the drop down dialog



Press the Reset button. The Reset Complete message box will be displayed

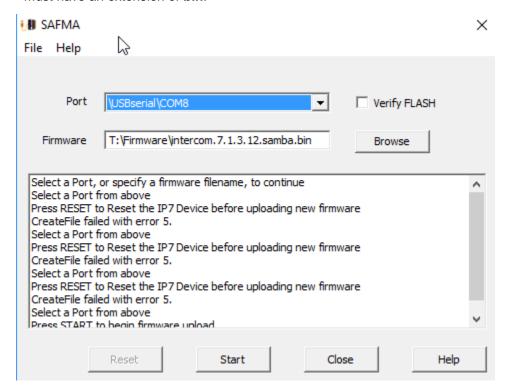


 Remove the USB cable from the USB-B Port (or external power supply) on the IP7 to power down the IP7 and complete the Phase 1 process If the Reset does not complete successfully, then refer to the Hardware Rest Pins topic

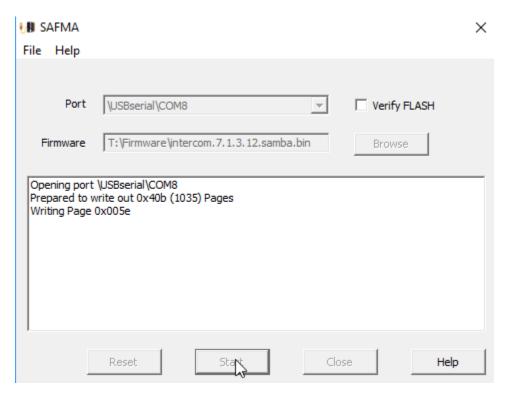
#### Phase 2 - Start

In Phase 2, the new Firmware is loaded into the IP7

- Download the latest IP7 Firmware from the Digital Acoustics Website. SAFMA Firmware files are included in the Firmware download and have a .bin extension. A firmware file with an extension of .IP7 cannot be used
- Plug the USB cable into the USB-B port on the IP7. This will power up the IP7 (the IP7-MZC-FD will need to be powered via a external 12VDC power supply)
- The Blue LED on the IP7 should light up. All Red LEDs must be off to continue the process. If any Red LEDs are on, Phase 1 did not complete successfully
- Select the \USBSerial\COMx port listed in the Port drop down dialog
- Use the Browse button to select the previously downloaded Firmware file. The firmware name must have an extension of bin.



 Press the Start button. As the firmware is loaded, the screen will display the progress. The load will complete is less than one minute. Do not repower the IP7 during this time



When the Firmware Update is completed, click the OK button to proceed



- Remove the USB cable from the USB-B Port on the IP7 (or the external power supply) to power down the IP7 and complete Phase 2
- Connect the IP7 back to its normal power supply and network connection. The IP7 is now ready for use

## **Troubleshooting**

Symptom	Resolution	
In Phase 1, the Reset button is grayed out	The wrong COM port has been selected.     Use the Windows Device Manager to verify the correct COM port is being selected.	
	Phase 1 has already completed. Proceed	

	to Phase 2
Phase 1 Reset fails	<ul> <li>Retry the Phase 1 Reset again</li> <li>With the USB connected to the IP7 and computer, power the device with external power or PoE power. Pull the USB connector out and insert it back in</li> <li>If Phase 1 continues to fail, follow the procedure for resetting the Firmware via the Hardware Reset Pins topic</li> </ul>

#### **Hardware Reset Pins**

In certain circumstances, the Phase 1 Reset may fail and the IP7 may have to be reset via the Hardware Reset Pins:

- An IP7 was powered off while the Firmware was being updated over the network
- Early versions of IP7 Firmware did not support the software reset feature

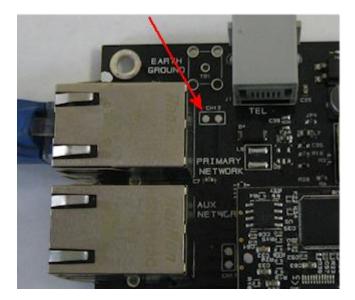
To reset the IP7 via the Hardware Reset Pins, the cover on the IP7-STx, IP7-SE8, IP7-FD, IP7-FX, IP7-SS20 or IP7-SS40 must be removed

- Remove the four screws (two on the front and two on the back)
- Carefully open the case by pulling up slowly on the side opposite the Volume buttons till the top pops off. Take care to prevent damage to the Vol+ and Vol- buttons
- The Hardware Reset pins are located to the right of the Vol+ and Vol- buttons as shown below



• On the IP7-MZC-FD, the reset pins are located behind the Primary Ethernet 10/100 connector

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- Power up the IP7 by plugging in a USB cable, external power supply or a PoE network cable
- Bend a piece of wire or a paper clip and jumper the two holes indicated above



- Remove the wire and power cycle the IP7. The only LED that should come on is the blue power LED
- Return to the SAFMA software and run Phase 2
- When re-installing the IP7 cover, align the holes with the blue Vol+ and Vol- buttons and carefully
  press down on the opposite side of the cover to snap it over the back of the case. Take care to
  prevent damage to the Vol+ and Vol- buttons

## **Menu Options**

## **File Menu Options**

The File menu has the following option:

• Exit - exits the SAFMA session

## **Help Menu Options**

The Help Menu has the following options:

• About - displays the current software version

## **Support Information**

## **Contacting Technical Support**

For Information on contacting Technical Support, please visit our web site at:

www.digitalacoustics.com

#### **About Us**

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## Notes



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