



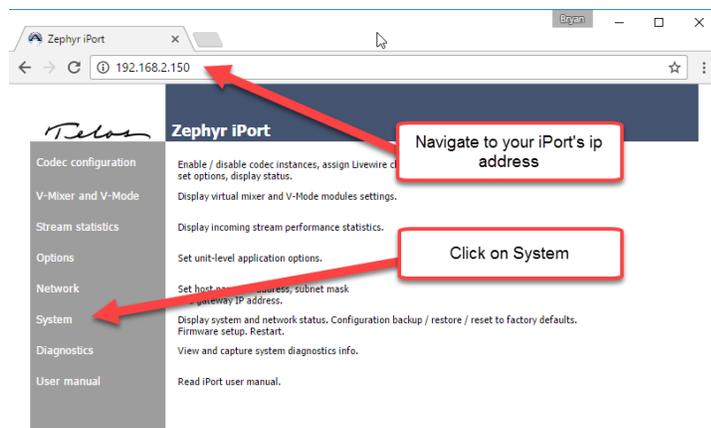
## Telos Zephyr iPort + TZD Software v2.1.0 Update Instructions and Release Notes

08 December 2016

### UPDATE INSTRUCTIONS:

Version 2.1 for iPort requires that you are already on a certain level of software. Please determine your current version before proceeding.

To determine your current version, open a web browser on a computer connected to the same network as your iPort, in the address bar type in the IP address of your iPort. In the example shown below, the ip address is 192.168.2.150. If prompted, enter the username and password for your iPort (the default is user with no password).



Once you are on the system page, you will find your version in the lower right corner as shown below. (Note that in this example, this iPort is running version 1.7.1i from Bank 1.)

Host name: iPort8075B2

System Status	
System status:	Error
CPU usage - avg / peak (%):	13 / 24
System temperature:	49°C
CPU temperature:	60°C
Serial number:	950000 68bd38f2d
Power1 Fuse1 :	ON OK
Power2 :	OFF

Configuration Management	
<input type="button" value="Backup"/>	save configuration data to file
<input type="button" value="Restore"/>	<input type="button" value="Choose File"/> No file chosen
<input type="button" value="Reset cfg"/>	restore default settings and restart
Warning: System will reboot after restoring configuration settings.	

Livewire port	
Network status:	OK
Link speed:	1 Gbs
Usage In:	34.2%
Usage Out:	0.9%

Reset	
<input type="button" value="Restart"/>	restart application from selected bank

WAN port	
Network status:	OK
Link speed:	1 Gbs
Usage In:	0.0%
Usage Out:	0.0%

Hardware and Firmware	
Hardware:	i5-2515E
<input type="radio"/> Bank 0	Zephyr iPort 1.7.1i (#1310101337) 10-Oct-2013 13:37:51
<input checked="" type="radio"/> Bank 1	Zephyr iPort 1.7.1i (#1310101337) 10-Oct-2013 13:37:51
<input type="button" value="Commit"/>	commit this version to Bank 0
<input type="button" value="Apply Selected Bank"/>	
Warning: System will reboot after changing the current bank.	
<input type="button" value="Install Bootloader..."/>	

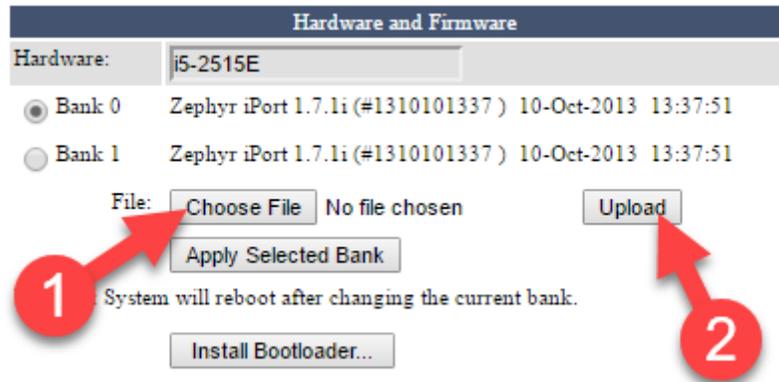
Front Panel Passcode	
New passcode (4 digits):	<input type="text"/>
Verify the new passcode:	<input type="text"/>
<input type="button" value="Apply"/>	

Remote Access Password	
New password (up to 8 letters or digits):	<input type="text"/>
Verify the new password:	<input type="text"/>
<input type="button" value="Apply"/>	

There are two updating scenarios. Please read both of them completely before proceeding.

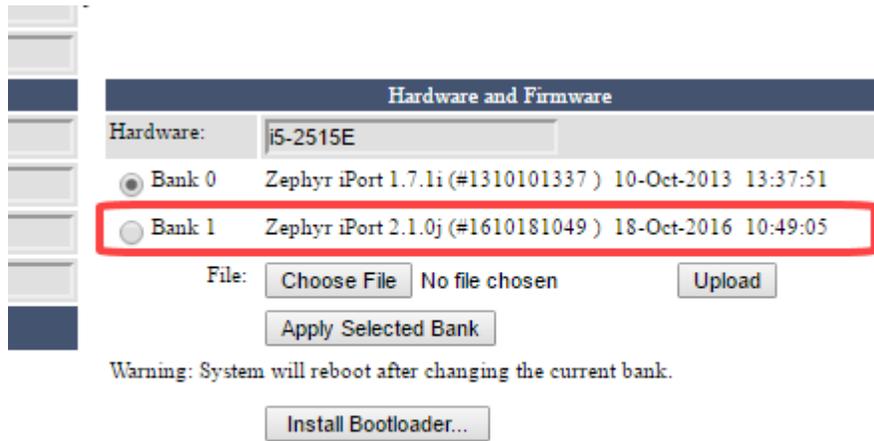
- 1) If your iPort is **NOT** already running 1.7 or higher, you **MUST** install a small update file **FIRST**. If your iPort is running 1.7 or or higher, do not perform this step.  
Please download the update file from [ftp://ftp.zephyr.com/pub/Axia/Updates/iPort/1601-00550-016-iPort\\_CF\\_image\\_upgrade\\_for\\_1.6-2.1.0j.tar](ftp://ftp.zephyr.com/pub/Axia/Updates/iPort/1601-00550-016-iPort_CF_image_upgrade_for_1.6-2.1.0j.tar) and save in a location on your computer for installation in your iPort.

For installing this update, you will install from the System Page. From the System page, under “Hardware and Firmware” click on the Choose File button. (If you do not have a Choose File button, but have a Commit button, you would need to select Bank 1 and click the Commit button. This will free up Bank 1 for updating.) Browse to the location where the update file is stored, choose the file and then click Upload as shown below. The system will indicate that it is updating software and after a minute or two will indicate that the update is complete.



A couple of items of note: Your browser may not refresh itself automatically. If it doesn’t simply click on one of the other headers in the web page and then back on the System page. Also important to note is that after the Update, the version number shown in the unused bank will not change. If you received the message that the update was successful then everything is complete and your system is now ready to update to version 2.1. You do not need to reboot the iPort at this stage.

- 2) If your iPort is currently running 1.7 or higher, or if you have completed Step 1, then you may download and install the 2.1 iPort software release. The 2.1 update can be downloaded from here <ftp://ftp.zephyr.com/pub/Axia/Updates/iPort/1601-00535-016-iPort-2.1.0j.tar>. The upload steps are the same as in the previous step. Simply click on the Choose File button, select your file, and then click Upload. Once complete, you will see that Zephyr iPort 2.1.0j is now installed in Bank 1 as shown here.



To activate this Bank, simply click on and select Bank 1, and then click the Apply Selected Bank button. The system will ask you to confirm that you want to activate this bank and reboot the unit. Click YES to do it now, or NO if you intend to reboot later.

Your update is now complete.

## RELEASE NOTES

**28 Oct 2016: Version 2.1.0j**

### Functional improvements:

- 4679 Assistance to production - blocking mechanism to prevent a wrong image from booting
- 5376 Syslog message: Indicate the value of invalid source IP address
- 5439 Stream recognition by stream ID
- 5533 Built-in production test for software-hardware matching
- 5677 CF image conversion package for versions 1.6 and older
- 5727 Completely migrate to standard syslog
- 5903 Enable configure Decoder buffering using LWRP command
- 6090 Include an updated revision of the user manual into the software package

### Fixed defects:

- 3899 Non-optimal internal process cooperation and scheduling cause decoder underruns
- 3932 iPort losing all IGMP subscriptions
- 4941 Data channels: Receiving end in biderctional mode is not working after iPort restart
- 4942 Data channels: iPort in TCP Client mode - the first few messages after a connection reset may get lost
- 5065 Attribute restore - ip settings are overwritten
- 5139 HTML: Doctype should be the first thing in document
- 5292 SNMP - PEN: replace the prototype number 88770 with the registered Telos PEN 42463



- 5298 Writing system time to hardware clock cause stream underruns/overruns
- 5320 Incorrect indication on LWRP command CFG GPIO#XXX ENAB:X
- 5337 Duplicate error messages on front panel.
- 5340 Decoder session count growing up if TZD is used
- 5353 Web UI options.Receive buffer size.Error: Unknown message code 0
- 5356 Ack, error, indication: must not be sent to all clients, only to the one that issued the original command
- 5364 Content delay: if incoming stream breaks for a period greater than Playback offset time, last recorded file will not be played
- 5374 Content delay: Last file is not played if the incoming stream has been stopped
- 5381 Confusing syslog messages
- 5382 Inaccurate value in Syslog when iPort receives packet from valid IP address but invalid port number
- 5392 Random "ERROR 1000 bad command" when Sending Bursts of LWRP commands
- 5402 Syslog gets flooded with "Decoded audio buffer too full" messages if decoder is enabled but stream is disabled
- 5416 UI web codec configuration. After mcast conflict resolved remote IP shows 0.0.0.0
- 5419 iPort restarts if Decoder path A and path B configured to receive streams with different codec settings
- 5420 Inadequate GPO pin status changes
- 5433 When the incoming stream is disturbed or stopped the delay "playback" would stop to play until the delay is manually restarted
- 5435 LWRP: DST DEC#x messages are missing "END" tag
- 5458 Missing responses to LWRP commands





- 5466 iPort shows that pathA and pathB receives stream from the same address
- 5478 GPIO in Status and control mode does not show "Decoder LW audio present" status if stream type is Standard stereo
- 5479 GPIO in Status and Control mode. Decoder WAN receive OK/lost status changes after the delay if Content delay is enabled
- 5484 If Content Delay is active then stream statistics are cleared when decoder starts decoding
- 5487 GPI n CMD events from codec link are lost when decoder GPIO operates in I/O emulation mode
- 5493 Sometimes GPIO events from codec link are received twice
- 5494 GPIO are delayed more then 500 ms
- 5514 Formatting SSD from web UI fails if system has detected it as device /dev/sdb (fanned chassis only)
- 5520 Data channels: Resetting connection to decoder in TCP Server mode fails, if data was sent to it
- 5544 Data channels: Dead connections may stay hanging. Add SO\_KEEPALIVE option to all data channel sockets
- 5554 Internal LWCP/LWRP connections - cleanup of setup and closing procedures
- 5602 Decoder keeps showing stream info after incoming stream has been disabled
- 5613 VMIX: Fader-5 output on each Submix becomes inactive after trying to set output LW channel number that is out of range
- 5644 16 decoder/encoder mode: Encoder attributes are changed after applying changes to decoder and the other way around
- 5645 iPort crashes in 16 decoder mode
- 5647 If received encoded stream is corrupt, sometimes decoder could fall in state when LW buffer periodically becoming empty
- 5652 LWCP: NO event messages is sent to LWCP clients



- 5658 Stream statistics DSP Underruns not counting
- 5660 Stream statistics: "Packets Received(A/B) (%)" is not cleared after switching incoming stream
- 5692 Sometimes GPIO is delayed more than 80 seconds
- 5726 Stop responding on IGMP query
- 5728 Callback function for old raw audio packets in port 10 may cause problem
- 5742 iPort doesn't leave mcast group when disabling Vmixer/Vmode streams for the first time after restart
- 5756 iPort may crash after changing decoder protocol type(mcast/UDP)
- 5757 Web password doesn't change after resetting settings to default
- 5758 Some AAC-LD low bitrate(e.g. 64, 80) stream packets are corrupted
- 5772 Missed GPIO pulse
- 5787 Decoder resets when receiving GPIO only stream
- 5790 Problems with received packet statistics in TZD mode
- 5813 After restart, iPort doesn't show correct hostname in syslog messages
- 5838 SNMP requests cause memory leak
- 5868 Two frame receiving jitter threshold values that are almost the same - "500 ms" and "> 500 ms"
- 5869 iPort reporting high Frame Receiving Jitter right after enabling decoder
- 5889 Feature Licensing. After license deactivation iPort doesn't disable APTX encoders/decoders, and contend delay.
- 5890 Sometimes iPort doesn't change VLAN number
- 5895 Feature Licensing. Problems with deactivation
- 5896 Feature Licensing. Offline activation requires restart.





- 5901 Invalid ENC/DEC number in XML backup file
- 5902 Setting the VMIX Main output to the same state as before, bad command error is returned
- 5912 Slow access to web UI
- 5924 Sometimes iPort doesn't restore default settings
- 6168 The lport does NOT report to LWRP port 93 CFG GPO SRCA changes
- 6169 The lport does NOT clear completely GPO SRCA
- 6238 Wrong response when configure VMIX 8 Sub over LWRD
- 6317 Buffer underrun problem with replacement SSD
- 6318 Sometimes iPort don't receive GPIO pulses from IP driver
- 6460 LWRP SRC command is not executed completely
- 6461 Losing LWRP commands
- 6470 Web - Options: Telos dealers link indicates the old company name
- 6882 LWRP - cannot change V-mode 8 output name