

7800EMR-HYDRA2

User Manual

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EVERTZ MICROSYSTEMS LTD.

5288 John Lucas Drive Burlington, Ontario Canada L7L 5Z9

Phone: 905-335-3700 Sales: sales@evertz.com Fax: 905-335-3573 Tech Support: service@evertz.com Web Page: http://www.evertz.com

Fax: 905-335-7571

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IMPORTANT SAFETY INSTRUCTIONS

Â	The lightning flash with arrowhead symbol within an equilateral triangle is intended to alert the user to the presence of uninsulated "Dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.
	The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (Servicing) instructions in the literature accompanying the product.

- Read these instructions
- Keep these instructions.
- Heed all warnings.
- Follow all instructions.
- Do not use this apparatus near water
- Clean only with dry cloth.
- Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than other. A grounding-type plug has two blades and a third grounding prong. The wide blade or the third prong is provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles and the point where they exit from the apparatus.
- Only use attachments/accessories specified by the manufacturer
- Unplug this apparatus during lightning storms or when unused for long periods of time.
- Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

WARNING

TO REDUCE THE RISK OF FIRE OR ELECTRIC – SHOCK, DO NOT EXPOSE THIS APPARATUS TO RAIN OR MOISTURE

WARNING

DO NOT EXPOSE THIS EQUIPMENT TO DRIPPING OR SPLASHING AND ENSURE THAT NO OBJECTS FILLED WITH LIQUIDS ARE PLACED ON THE EQUIPMENT

WARNING

TO COMPLETELY DISCONNECT THIS EQUIPMENT FROM THE AC MAINS, DISCONNECT THE POWER SUPPLY CORD PLUG FROM THE AC RECEPTACLE

WARNING

THE MAINS PLUG OF THE POWER SUPPLY CORD SHALL REMAIN READILY OPERABLE

INFORMATION TO USERS IN EUROPE

<u>NOTE</u>

CISPR 22 CLASS A DIGITAL DEVICE OR PERIPHERAL

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to the European Union EMC directive. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.



EN60065 EN55103-1: 1996 EN55103-2: 1996

Safety : 1996 Emission : 1996 Immunity



EN504192 2005 Waste electrical products should not be disposed of with household waste. Contact your Local Authority for recycling advice

INFORMATION TO USERS IN THE U.S.A.

<u>NOTE</u>

FCC CLASS A DIGITAL DEVICE OR PERIPHERAL

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

WARNING

Changes or Modifications not expressly approved by Evertz Microsystems Ltd. could void the user's authority to operate the equipment.

Use of unshielded plugs or cables may cause radiation interference. Properly shielded interface cables with the shield connected to the chassis ground of the device must be used.



REVISION HISTORY

REVISION	DESCRIPTION	DATE
1.0	First Release	Apr 2020

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Although every attempt has been made to accurately describe the features, installation and operation of this product in this manual, no warranty is granted nor liability assumed in relation to any errors or omissions unless specifically undertaken in the Evertz sales contract or order confirmation. Information contained in this manual is periodically updated and changes will be incorporated into subsequent editions. If you encounter an error, please notify Evertz Customer Service department. Evertz reserves the right, without notice or liability, to make changes in equipment design or specifications.





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1. OVERVIEW

The 7800EMR-HYDRA2 interface module provides 7800EMR existing and new EMR audio systems the ability to integrate directly to Calrec Hydra2* audio systems, by means of a seamless bidirectional translation between Evertz TDM and Calrec Hydra2. Featuring primary and secondary Hydra2 paths that are capable of 512 bidirectional audio channels (at 48kHz), primary and secondary TDM paths all are monitored and provide an automatic failover mechanism, in addition there is a licensable feature to allow for name transfer, from a Magnum Unified Control System to the Calrec Hydra 2 system for the appropriate audio labels.

The 7800EMR–HYDRA2 interface module just makes sense, it simplifies system wiring, configuration and overall management of the audio signals, monitoring and name transfers, not to mention it provides path redundancy as well as saving rack and module slots space. When we compare this to a traditional or equivalent system one would require multiple MADI lines to interlink the systems via numerous MADI conversion boxes on both ends, which to a key point do not have an inherently incorporated path redundancy as seen with Hydra2/TDM Audio paths, and then names would be handled in a separate protocol translator card with additional complicated configuration required.

Features & Benefits

- Compact 2 Slot design
- 512 mono channels
- Main and Redundant paths with auto fail over or dual path
- Reference Via Frame or external connection
- High Availability, 24/7 Design
- Full modular design
- Hot swappable
- Passive I/O rear plate
- Redundant Frame power supply
- Comprehensive system monitoring bus
- VistaLINK® PRO SNMP monitoring of I/O modules
- Supports Backwards compatibility to 7700FR

^{*} Hyrda2 is a Trade Mark of Calrec Audio Ltd.





Figure 1-1 : 7800EMR-HYDRA2 Block Diagram



Figure 1-2 : 7800EMR-HYDRA2 Top View



2. SPECIFICATION

2.1. ORDERING INFORMATION

7800EMR-HYDRA2	TDM to Hydra2 bi–directional interface module ** Calrec Hydra2 Daughter Card to be purchased from Calrec
2.1.1. Rear Plate Suffix +3RU	3RU Rear Plate for use with 7700FR-C or 7800FR Multiframe
2.1.2. Enclosures	
350FR 7800FR 7801FR	3RU Portable Multiframe which holds up to 7 single slot modules 3RU Multiframe which holds up to 15 single slot modules 1RU Multiframe which holds up to 4 single or 2 dual slot
2.1.3. Ordering Options	
+NAMES	License to enable name transfer from the MAGNUM Unifi ed control system to the Calrec Hydra 2 system





3. INSTALLATION

Before handling the card, it is important to minimize the potential effects of static electricity. It is therefore recommended that an ESD strap to be worn.

7800EMR-HYDRA2 module must have minimum 1 slot vacant in the frame. Each rear plate can house one 7800EMR-HYDRA2 module.

3.1. Installation of 7800EMR-HYDRA2 on 7800FR Frame

Step 1: Install the 7800EMR-HYDRA2 rear plate to the 7800 Frame with screws provided and make sure the orientation of the card as is shown in Figure 3-1.



Figure 3-1 : 7800EMR-HYDRA2 Rear Panel



Step 2: Insert the 7800EMR-HYDRA2 card in the 7800 Frame and make sure the orientation of the card will be as is shown in Figure 3-2.



Figure 3-2 : Illustration of 7800EMR-HYDRA2 card in 7800 Frame



3.2. FRONT CARD EDGE CONTROLS AND LEDS

The 7800EMR-HYDRA2 front card edges have some key controls and indicators that can help in the installation and debugging processes. Figure 3-3 shows the card edges and Table 3-1 describe the expected behaviour of each component. When applied relevant signal to the card, the following card edge LED's should light up.



Figure 3-3: 7800EMR-HYDRA2 Card Edge

Component	Description			
	LD8 Green	TDM input 1,TDM signal present		
TDM Present LEDs	LD2 Green	TDM input 2,TDM signal present		
	LD6 Green	Video PLL Status is locked		
Reference LED	LD6 Red	Video PLL Status is unlocked		
Ethernet Speed LED	LD11 Green or Off	Depending on speed		
Ethernet Activity LED	LD12 Flashes Green	Activity		
Rotary Switch	Switches the display to view firmware version, IP address and			

 Table 3-1: Description of 7800EMR-HYDRA2 Card Edges





4. SERIAL CONFIGURATION

4.1. NETWORK CONFIGURATION

This section allows the user to configure the IP address, Netmask address, Gateway, Broad cast address and DHCP mode.

	Main Menu Hydra2 Version 1.01 Buildserver Build 34	
(1) Network (2) SNMP Cd (3) Audio ((4) Referen (5) Show Bd (6) Show SI (7) Enginee (8) Save to	 Configuration onfiguration Sonfiguration ce Configuration Menu ard Information P Setup ring Debug Utility o flash and Reboot 	
(X) Exit > 1		
	Network Configuration Hydra2 Version 1.01 Buildserver Build 34	
MAC: 00:02:c	:5:1a:d3:e6	
ip address: netmask addr gateway: broadcast ad DHCP Mode:	192.1.1.4 ess: 255.255.255.0 192.1.1.1 ldress: 192.1.1.255 Off	
(1) Set IP (2) Set Net (3) Set Gat (4) Set Bro (5) Set DH(Address mask reway nadcast Address CP	
(S) Save and (X) Exit	l Exit	

Figure 4-1 : Network Configuration

4.2. AUDIO CONFIGURATION

This section allows the user to configure and view Audio settings. To view the audio input packets and audio input status, Go to options 1) Video Audio Input Packets Table and option 2) View Audio Input Status Table

	Main Menu Hydra2 Version 1.01 Buildserver Build 34	
(1) Network (2) SNMP Cor (3) Audio Co (4) Referen (5) Show Boo (6) Show SFF (7) Engineer (8) Save to	Configuration nfiguration onfiguration ce Configuration Menu and Information P Setup ring Debug Utility flash and Reboot	
(X) Exit > 3		
	Audio Configuration Hydra2 Version 1.01 Buildserver Build 34	
(1) View Aud (2) View Aud (3) TDM Port (4) Hydra Ma (5) Audio TH (6) Audio H (7) View TDI (8) View TDI (8) View TDI (9) TDM Tond (10) Hydra Ta	io Input Packets Table io Input Status Table t Info dule Options M Fault Status Menu ydra Fault Status Menu 1 Channel Pair Status Pa Channel Pair Status s Generator Menu one Generator Menu	
(X) Exit > □		

Figure 4-2 : Audio Configuration



4.3. HID ADDRESS

This section allows the user to check the HID address of H2M module. Go the menu (3) Audio Configuration, then (4) Hydra Module Options, then (10) Send HID request to Hydra module.

HID address is used to communicate with the Calrec.

If H2M module not plugged in to the Hydra2 card, there will be no communication between Calrec and Hydra2 card. HID should not be detected.



Figure 4-3 : H2M Module

Main Menu Hydra2 Version 1.01 Buildserver Build 34	
 (1) Network Configuration (2) SNMP Configuration (3) Audio Configuration (4) Reference Configuration Menu (5) Show Board Information (6) Show SPP Setup (7) Engineering Debug Utility (8) Save to flash and Reboot 	
(%) Exit > 3	
Audio Configuration Hydra2 Version 1.01 Buildserver Build 34	
 (1) Uiew Audio Input Packets Table (2) Uiew Audio Input Status Table (3) TDM Port Info (4) Hydra Module Options (5) Audio TDM Fault Status Menu (6) Audio Hydra Fault Status Menu (7) Uiew TDM Channel Pair Status (8) Uiew Hydra Channel Pair Status (9) TDM Tone Generator Menu (10) Hydra Tone Generator Menu 	
$\begin{array}{l} \text{(X) Exit} \\ > 4 \end{array}$	
Hydra Module Options Hydra2 Version 1.01 Buildserver Build 34	
Current Hydra Module IP Address: 192.1.1.20	
 (1) Enter Hydra Module IP Address (2) View Juput Labels (3) View Output Labels (4) View Output Labels (5) Enter Router mode (6) Set Input Labels (7) Set Output Labels (8) Set Default Input Labels (10) Send HID request to Hydra Module (12) Request Output Labels from Hydra Module (13) Send Output Labels to Hydra 	
(X) Exit > 10 Task Complete HID Request Reply: HID[64]	

Figure 4-4 : HID Address



4.4. SFP SETUP

This should detect the SFP and report back with a Vendor name (Avago, for instance). Go to option 6) Show SFP setup -> 1) Show SFP status,

🚇 COM13:115200baud - Tera T	erm VT	_	
File Edit Setup Control V	Vindow Help		
<pre>(1) Show SFP Status</pre>			
(X) Exit > 1 Collecting Data			
SFP 1 Status SFP 1 TX Fault: SFP 1 RX Loss: Vendor name Number of IO IO config TX enable[0]: TX enable[1]: Laser Transmit Power Laser Receive Power Wavelength Temperature Voltage	[0] [0] [AVAGO [2] [0NE_OF_EACH] [1] [0] [65.53] [65.53] [0] [255] [6.52]	3	
SFP 2 Status SFP 2 TX Fault: SFP 2 TX Loss: Vendor name Number of IO IO config TX enable[0]: TX enable[1]: Laser Transmit Power Laser Receive Power Wavelength Temperature	[0] [0] [[2] [0NE_OF_EACH] [1] [0] [65.53] [65.53] [65535] [255]]	

Figure 4-5 : SFP Status

4.5. PUSHING NAMES FROM MAGNUM



Note: +Names Option Available for Mono mode only



Setting up Calrec's Test Rack

Secondary SFP should configured same as Primary SFP only difference will be control and router SFP location (Use Secondary SFP location)

- Calrec rack IP address is set to 192.1.1.0, to change this please refer to Calrec's initial setup for Evertz document or the label on top of the chassis. Set your test pc's 2nd network adaptor IP address to 192.1.134.0 and Netmask 255.255.0.0 and MAC address to 000D07FF8600 (also called the locally administered address).
- 2. Insert the two Eoptolink Copper SFP's provided, one into the CONTROL card's Surface port 1 or 2 and the other into any of the ROUTER card's Hydra2 ports. Also plug a PAL/NTSC video reference into Video 2 Sync input on the central RESET card see picture below.



CAUTION: Do not hot plug SFPs into the Calrec Rack



Figure 4-6 : Carlec Setup

3. Plug the Control CAT5 cable into the test pc's 2nd network connection and power cycle the Calrec Rack. Wait 30 seconds until Active and Module OK leds both on for CONTROL and ROUTER cards. Confirm that you can ping 192.1.1.0.

Open Chrome and type in the following URL <u>http://192.1.1.0:8080</u> This will be up the login screen for Calrec's H2O interface. Log in with the following:

Username = admin

Password = admin1

Once logged in you should see the following tabs below:



c A L R E C VO Box & Access Manage Setup Rights Folders	Manage Clients Pa	Port atching	Sync Manage Sources Metadata	Hydra Control Patchbays Protocols	Sample Rate	Remote Networks	Admin Logout	
Boxes		_		Box and Port Labels	_	_	_	
Native Label User Label Type	Labels & De	scriptions	Source Settings SW-F	2-08 Mapping				
64 64 EVERTZ	Box Tr Native Bo User Box Addre	ype x Label : Label ess	EVERTZ 512/512 64 64 2112		Ve	erl	Z	/
	In/Out	Port	Native port label	User port label		User port des	scription	
	Input	1	2112-001					
	Input	2	2112-002]			
	Input	3	2112-003					
	Input	4	2112-004					
	Input	5	2112-005					
	Input	6	2112-006					
	Input	7	2112-007					
	Input	8	2112-008					
	Input	9	2112-009					
	Input	10	2112-010					
	Input	11	2112-011					
	Input	12	2112-012					
	Input	13	2112-013					
	Input	14	2112-014					
	Input	15	2112-015]			
	Input	16	2112-016]			
	Input	17	2112-017					
	Input	18	2112-018					
	Input	19	2112-019					
	Input	20	2112-020					
	Input	21	2112-021		1			1-
	Apply Char	nges	Cancel Changes					

Figure 4-7 : Calrec Webpage

4. Plug a third Copper SFP (SFPTR-RJ45-SER-AV) into the HYDRA2 PRI or secondary port (depending on testing port) on the rear plate and insert the CAT5 Hydra cable here. The Primary port is used as the Calrec ROUTER card is currently plugged into the primary half of the rack labelled as ROUTER1. To test the secondary Hydra2 port plug, power down the rack and plug the ROUTER card into the secondary side labelled ROUTER2 on the chassis.



Figure 4-8 : Hydra2 Card SFP



- 5. Now refresh H2O from the browser and check that under the I/O Box & Setup tab there should be an entry for the H2M module
- 6. Go to the Manage Folders tab and under Port Folders click '+' at the bottom and add a folder with a name 'Hydra2_Mod-64-inputs'. Add a second folder in the same way for the outputs. I have chosen 64 as that is the HID of my Hydra module.
- 7. Select the new input folder and under Boxes select the Hydra2 module and highlight all 512 inputs and press the Ports button at bottom LH corner to transfer all input channels into the new folder. Repeat the process for the new outputs folder.
- 8. We are now ready in H2O for port patching across the Hydra2 network. Now for Hydra2 port patching. In H2O go to the Port Patching tab and under Sources select port folder 'Hydra2_Mod-64-inputs' or whatever you called it. Do the same under Destinations and select the port folder 'Hydra2_Mod-64-outputs'. As shown in the picture below you can then patch

LREC NO BO	ox & Access up Rights	Manage Folders	Manage Clients	Port Patching	Syr Sour	nc ces	Manage Metadat	e Hydra a Patchbays	Control Protocols	Sample Rate	Remote Networks	Admin Logout
	_	Sources	_	_						Destinatio	ns	_
> Ports >	Hydra2_Mod-64-	inputs			v	'iew:		All 👌 Ports 🔪	Hydra2_Mo	d-64-outputs		
Port Label	Туре	Info	Patc	hed to		48 kHz	· •	Port Label	Тур	e Info		Fed from
2112-001	EVERTZ	2	112-001		<u>^</u>			2112-001	EVERTZ		2112-001	
2112-002	EVERTZ	2	112-002					2112-002	EVERTZ		2112-002	
2112-003	EVERTZ	2	112-003					2112-003	EVERTZ		2112-003	
2112-004	EVERTZ	2	112-004					2112-004	EVERTZ		2112-004	
2112-005	EVERTZ	2	112-005					2112-005	EVERTZ		2112-005	
2112-006	EVERTZ	2	112-006					2112-006	EVERTZ		2112-006	
2112-007	EVERTZ	2	112-007					2112-007	EVERTZ		2112-007	
2112-008	EVERTZ	2	112-008					2112-008	EVERTZ		2112-008	
2112-009	EVERTZ	2	112-009					2112-009	EVERTZ		2112-009	
2112-010	EVERTZ	2	112-010					2112-010	EVERTZ		2112-010	
2112-011	EVERTZ	2	112-011					2112-011	EVERTZ		2112-011	
2112-012	EVERTZ	2	112-012					2112-012	EVERTZ		2112-012	
2112-013	EVERTZ	2	112-013					2112-013	EVERTZ		2112-013	
2112-014	EVERTZ	2	112-014			Pato	:h	2112-014	EVERTZ		2112-014	
2112-015	EVERTZ	2	112-015			Remo	ve	2112-015	EVERTZ		2112-015	
2112-016	EVERTZ	2	112-016			Mov	0	2112-016	EVERTZ		2112-016	
2112-017	EVERTZ	2	112-017				6	2112-017	EVERTZ		2112-017	
2112-018	EVERTZ	2	112-018					2112-018	EVERTZ		2112-018	
2112-019	EVERTZ	2	112-019					2112-019	EVERTZ		2112-019	
2112-020	EVERTZ	2	112-020					2112-020	EVERTZ		2112-020	
2112-021	EVERTZ	2	112-021					2112-021	EVERTZ		2112-021	
2112-022	EVERTZ	2	112-022					2112-022	EVERTZ		2112-022	
2112-023	EVERTZ	2	112-023					2112-023	EVERTZ		2112-023	
2112-024	EVERTZ	2	112-024					2112-024	EVERTZ		2112-024	
2112-025	EVERTZ	2	112-025					2112-025	EVERTZ		2112-025	
2112-026	EVERTZ	2	112-026					2112-026	EVERTZ		2112-026	
2112-027	EVERTZ	2	112-027					2112-027	EVERTZ		2112-027	
2112-028	EVERTZ	2	112-028					2112-028	EVERTZ		2112-028	
2112-029	EVERTZ	2	112-029					2112-029	EVERTZ		2112-029	
2112-030	EVERTZ	2	112-030					2112-030	EVERTZ		2112-030	
2112-031	EVERTZ	2	112-031			Add toS	alvo	2112-031	EVERTZ		2112-031	
				_		ViewSa		2442.022	EVEDT7		2442.022	

Figure 4-9 : Patching



- 1. Login Client Host with admin/admin and select "interfaces" tab and choose "Quartz"
- 2. Add Hydra2 with Port "4000" or available Port

INT	ERI	FACES								
	Multi	-Profile	Single-Profile	Quartz	Magnum	n Profile Management			croll Lists	
0	🛇 Add 🖉 Edit 🗊 Delete 🗅 Make Like 🗅 Copy A Profile									
SELE	CT: All,	None, Modified	Clear Filters							
		Status	Name	≜ Default N	lame Set F	Port	Enhanced Errors			
		_								
	Ø		HYDRA2		Global	4000	True			
	Ø		MVP Profile		Global	9876	False			

Figure 4-10 : MAGNUM Interfaces

- 3. Add Device under the Devices tab and Add Hydra2 sources and destinations.
- 4. Go to "Source Availability" Tab and make the sources and destinations available.
- 5. Once you finish making sources and destination names, Save the changes
- 6. Go to "Names" Tab and change the names that will update on serial menu of the Hydra2 card
- 7. Route the Hydra2 card destination to the particular source for Example: Channel1
- 8. You should be able to view the update names that have come from Magnum in the 7800EMR-Hydra Module through serially or telnet into the card.

Menu using options:

(3) Audio Configuration

(4) Hydra Module Options

4) View Output sources (This views updated Names from Magnum)

9. Check Calrec should update updated Names from Hydra2 module



Note: Please be aware that the config transferred to the card can only transfer names with a length of 10 characters – so if magnum has longer names it will shorten them.





5. VISTALINK_® PRO CONFIGURATION

This chapter assumes that the VistaLINK[®] PRO server and client are already configured for your network and user must have basic knowledge of the VistaLINK[®] PRO interface. It also assumes that the user or network administrator has already added the appropriate jar file to the server, and both the client and server applications have been restarted. 7800EMR-HYDRA2 can communicate to VLPro using the control port of the card and appropriate Jar file. Open VistaLINK[®] PRO and click on the refresh tree icon. Select the IP address of 7800EMR- HYDRA 2 and right click to "View Configuration..." Depending on which mode the 7800EMR- HYDRA 2 is set to, the tab menu options in VistaLINK[®] PRO differ slightly.





6. UPDATING VLPRO SERVER JAR FILE

Products from Evertz are constantly evolving and new features are often added. It is therefore important to update the JAR files in use to provide access to all the latest features or enhancements. It will also necessary to add JAR files for new products. If your new product has not appeared even after waiting a few minutes for the Ethernet switch negotiation to complete then it is possible that your JAR file may be old or missing.

To perform a JAR update, ensure that all VLPro clients are closed (those clients which are not closed will automatically be disconnected as soon as the VLPro server is restarted). Maximize the VLPro Server window from the Windows task bar, select *Help* \rightarrow *Apply Update* \rightarrow *Product* from the menu

File Tools Help					
Status	Activate Li	cense	og	🗿 Clients	🔊 Discovery
Database:	Apply Update 🕨		5	Product	
E-mail System:	Logger Se	ttings	-60	Database	Description
Logging System	About	12:00:00 12:00:00		2015-11-06	DBAdmin scan of Alarm log completed
MVP Ack Syster				2015-11-06	DBAdmin moved 0 alarm records to archives.
Network:				2015-11-06	Logger Running State set to log events
License		12:00:00		2015-11-06	Logger Running State set to buffer events
Expires on 19-09-202 Evertzinternal-2020-09-	.19	12:00:00 12:00:00		2015-11-06	DBAdmin created archive list of 0 items. Scan 1
5 General Clients				2015-11-06	Logger Running State set to log events
5 Plus Clients		12:00:00		2015-11-06	Logger Running State set to buffer events
- Third Party Devices 5 Web Clients		12:00:00		2015-11-06	DBAdmin extracted records from alarm log. Building archive file. Scan 1
Licensed Features		12:00:00		2015-11-06	DBAdmin archiving is turned on so logs are being written to disk.
Auto Response		12:00:00		2015-11-06	Logger Running State set to log events
Cause/Effect		12:00:00 12:00:00 12:00:00 12:00:00 12:00:00 12:00:00 12:00:00 12:00:00		2015-11-06	Logger Running State set to buffer events
MIB Parsing				2015-11-06	DBAdmin scanning records from alarm log. Scan 1
SLA				2015-11-06	DBAdmin initiating scan of Alarm log
Thumbnail				2015-11-06	Completed sending message "DBAdmin starting scan of logs. See VLProServer lo
web Service				2015-11-06	Sending message "DBAdmin starting scan of logs. See VLProServer log for details"
Custom Challenting	- 1			2015-11-06	Completed sending message "DBAdmin initiated"
System Statistics				2015-11-06	Sending message "DBAdmin initiated"
				2015-11-06	DBAdmin initiated
		00:00:01		2015-11-06	Completed sending message "DBAdmin completed"
					Details Clear

Figure 6-1 : VistaLINK_® PRO Server

A window will appear, as shown in Figure 6-2, simply navigate to the location of the new JAR file and select the file by double clicking. The window will automatically close and the update will be applied in the background.

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File Tools He	lp								
Status	~	Server Lo	g 🔏 Clients 🚦	Discovery					
Database:	💆 Open						×	Л	
E-mail System: Logging System: MVP Ack System:	Look In:	Documents			•	§ 🏊 🦉			
Network:	A-Prod	lucts							
License Expires on 19-0 Evert2Internal-202 5 General Clients 5 Plus Clients - Third Party Devin 5 Web Clients Licensed Featur Cause/Effect MIB Parsing	B-Impo	rtant Notes leets Forms apes Machines onal							
SLA Thumbnail	Files of Two	a: iar diractory	tion the					La Casular la	
Web Service	riies of typ	e. Jai ullectory	,jai ,2ip				v	o for details"	
System Star						Open	Cancel		
		12:00:00	2015-11-06	DBAdmin initiated					
		00:00:01	2015-11-06	Completed sending	message "DE	BAdmin completed	f		
							Det	ails Clear	

Figure 6-2 : VistaLink_® PRO – Applying JAR Updates

You will be prompted to restart the server to enable the change to take effect. Apply as many JAR updates as required before restarting the server.



Figure 6-3 : VistaLink_® PRO – Restart You Alarm Server

By clicking Yes, server will automatically restart, but it is normal for the startup to take marginally longer while each individual update is being applied. Once complete, you may restart the VLPro Clients. As the clients restarts you will experience a short delay while the update is applied. A prompt will appear confirming that the updates have been applied.



7. UPGRADING THE FIRMWARE ON 7800EMR-HYDRA2 THROUGH FTP

- 1. Identify and confirm the IP Addresses of the module and PC/laptop, and ensure that they are on same subnet.
- 2. Obtain the new firmware and copy to any directory on your computer. (C:\temp)
- 3. Open a DOS window by selecting **Start** \rightarrow **Run**, and typing "cmd" in the window that appears,

📼 Run	X
	Type the name of a program, folder, document, or Internet resource, and Windows will open it for you.
Open:	cmd 👻
	This task will be created with administrative privileges.
	OK Cancel <u>B</u> rowse

Figure 7-1 : Run Window for FTP Access

- 4. In the DOS window type: *ftp xxx.xxx.xxx* (where the x's represent the module's IP Address)
- 5. Press <ENTER> when prompted for a "Username". And again when prompted for a "Password"
- 6. At the "**ftp>**" prompt, type "**hash**", toggles number sign (#) printing for each data block that is transferred.
- 7. At the "**ftp>**" prompt, type "**put x.bin**", where x represents the name of the firmware (.bin)



Note: If the firmware file is not local to where you are performing the FTP, then include the path with the name: (eg: "put c:\temp\hydra2\firmware.bin")

8. Once the upgrade is complete, send the command ""bye" to exit ftp connection (see Figure 7-2) and the module will reboot itself. Don't remove the module during this process or it could corrupt the firmware code.





Figure 7-2 : Sample FTP Upgrade Window