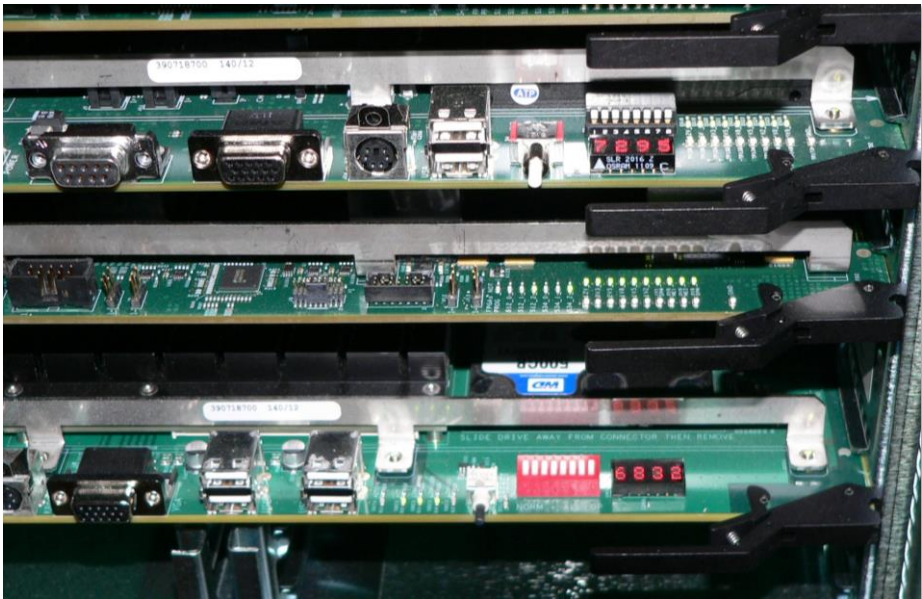


Section 6A - K-Frame



6A - 1

K-Frames

- Frames
 - 6 RU (Compact) & 13RU (Standard) - 3G K-Frame
 - External Power Supplies
 - ME Boards
 - Controller Board
 - Input, Output and Modular I/O
- Troubleshooting / Diagnostics
 - Frame Diagnostics Methods:
 - Web Browser
 - Telnet
 - Logs
 - Diagnostic Data



5-ME (6 RU) K-Frame



grass valley
A BELDEN BRAND

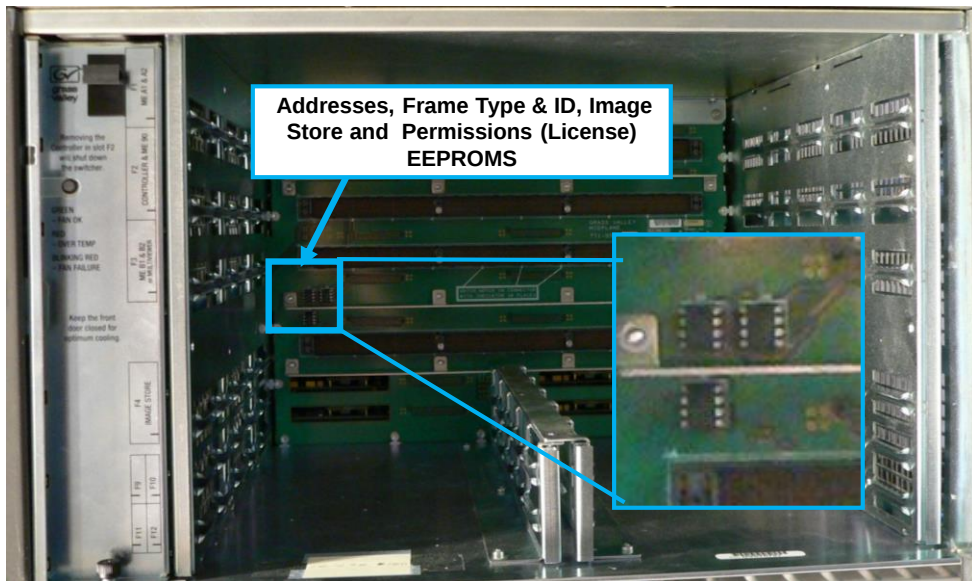
6A - 3

This shows the Smaller Compact K-Frame board locations and external Power Supplies.

The Fan assembly on the left and air filter on the right can be easily removed.

[illegible]

K-Frame IP Address Location



grass valley
A BELDEN BRAND

6A - 4

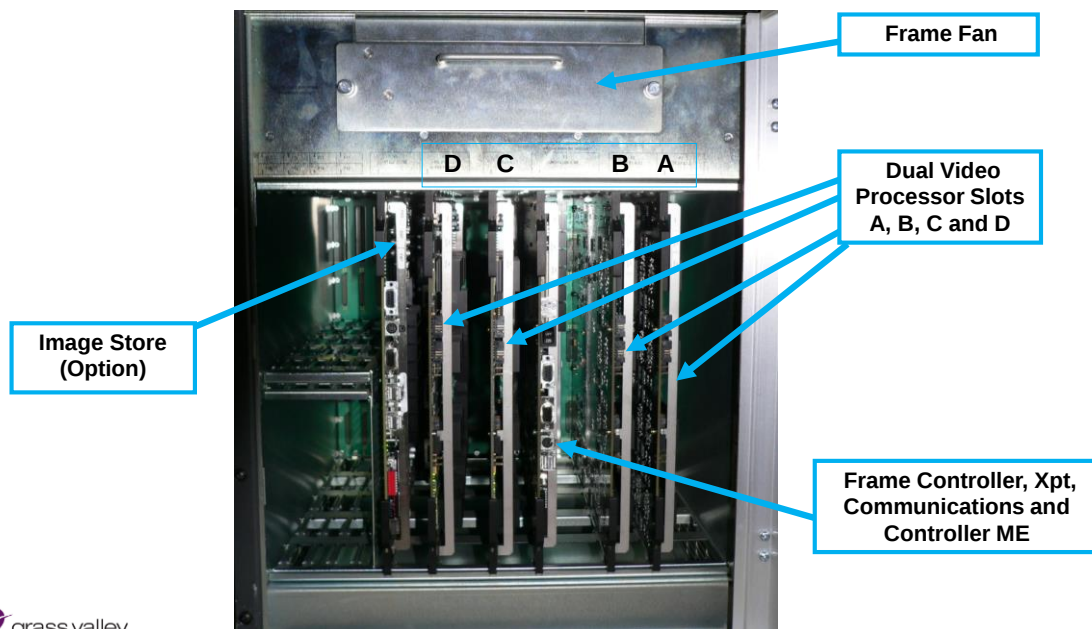
Backplane Hardware

The IP address of the Frame Processor and Image Store, the system permissions (or software license options), last Operating Video Format are stored on 3 socketed EEPROMS on the Mid Plane board, above the ME B slot connector.

The System Name, Type (K-Frame) and Serial Number are also stored on these EEPROMs. This is also the registered customer ID number.

When replacing the frame or the Mid Plane Board, the licenses must be upgraded to the new frame. Either work with Customer Service to get a new license to install OR install the old programmed EEPROMS from the old frame into the newer frame with care.

9-ME (13 RU) K-Frame



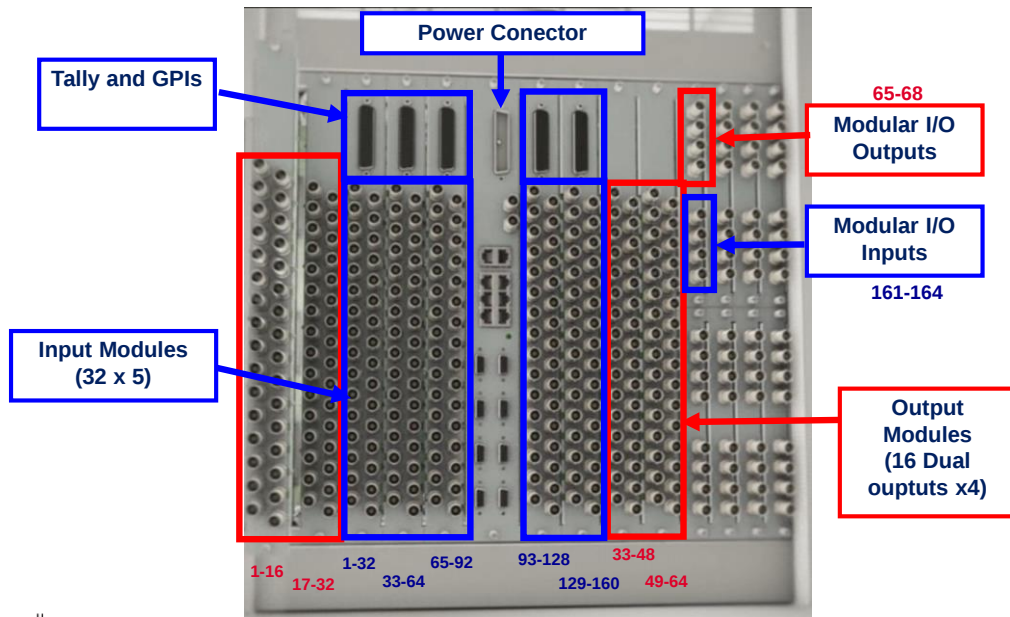
6A - 5

The main modules are inserted from the front.

There are 3 types of boards in the 3G frame. Up to 4 Video Processors (Dual ME) boards, 1 Controller Board and the Image Store.

Video Processor boards are labeled from the right starting with A.

9-ME (13 RU) K-Frame - Rear (1)



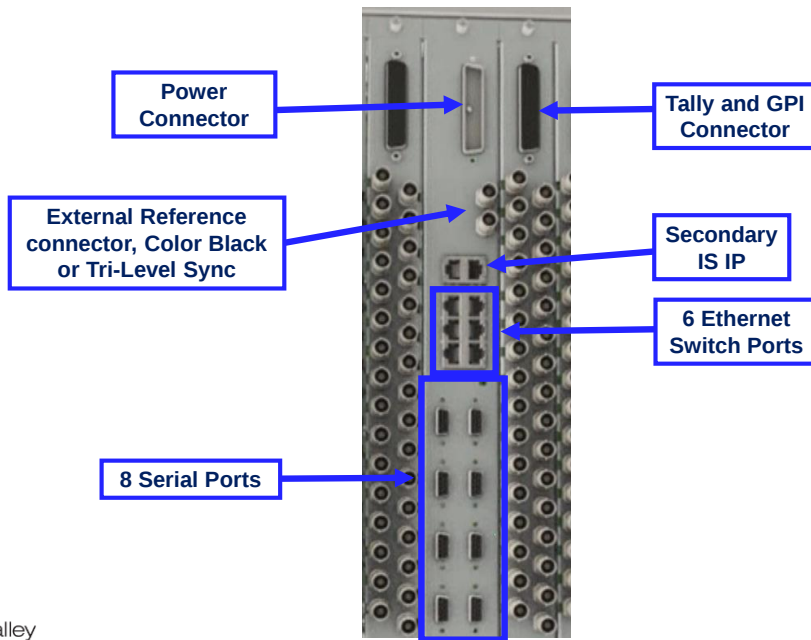
6A - 6

All rear modules are held in place with 2 screws.

Output boards have 2 BNCs for each output signal.

Each modular I/O board has 4 Inputs and 4 Outputs.

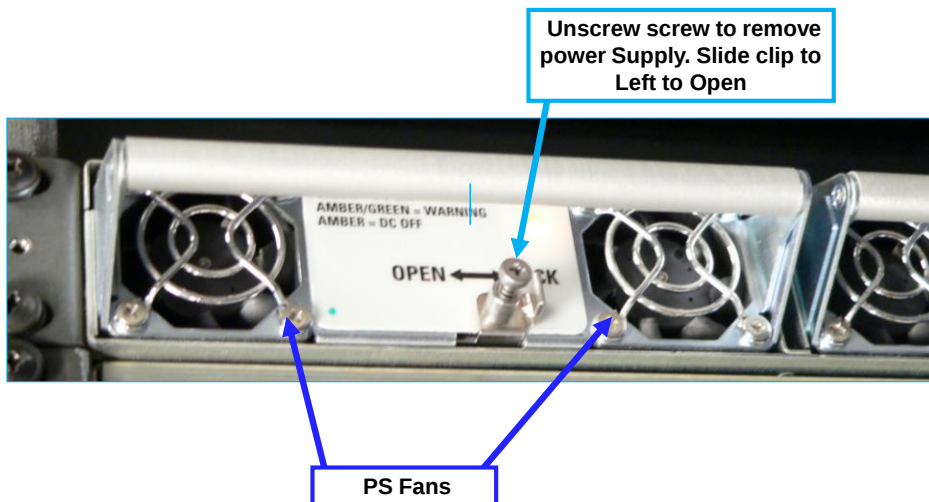
9-ME (13 RU) K-Frame - Rear



6A - 7

The rear Communications module provides connections for 8 Serial ports, 6 ports of the internal 8 port Ethernet switch, an additional port for the Image Store, the loop-through External Reference and the Frame Power Supply.

K-Frame - Power Supplies (1)



6A - 8

Video Frame Power Supplies

All power supplies are auto ranging and will operate from 85 to 264 Volts, 47 to 63 Hertz.

Each Power Supply has its own IEC power connection on the back of the frame.

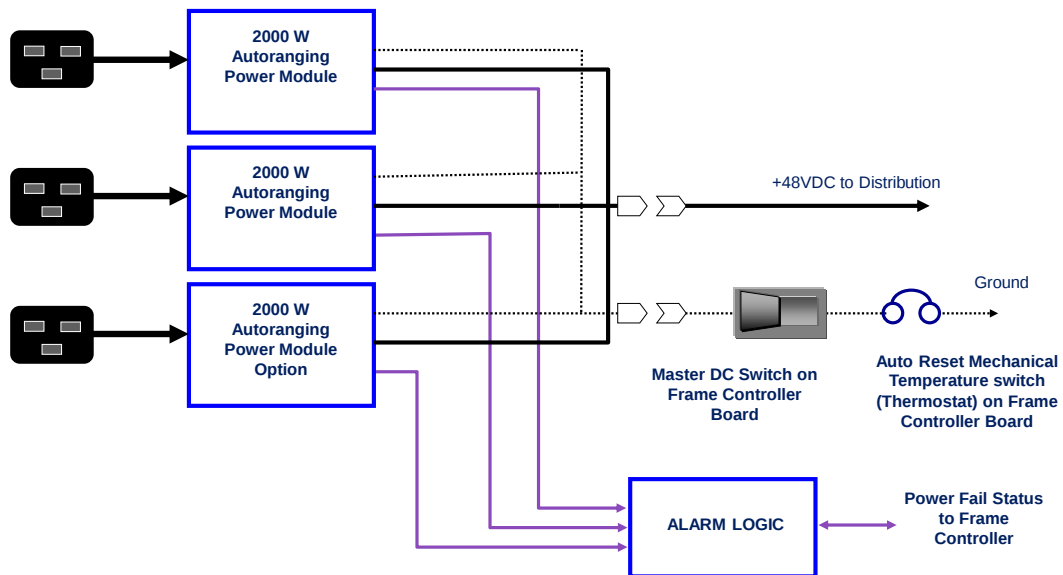
Each power supply provides 48 Volts D.C. and is capable of sourcing 16.7 Amps (800 Watts).

The PS frame contains spaces for 3 supplies (2 standard).

Each power supply has internal temperature sensors.

PS LED shows Green for good, Green/Amber for warning, and solid Amber for DC Off (AC Present)

K-Frame - Power Supplies



6A - 9

Power Supply Module

The same power supply tray is used for both the 6RU and the 13 RU frames.

The master DC switch is located on the Controller board.

One power supply is standard with the 6 RU switcher and the second is an option.

Two power supplies are standard with the 13 RU switcher and the third is an option.

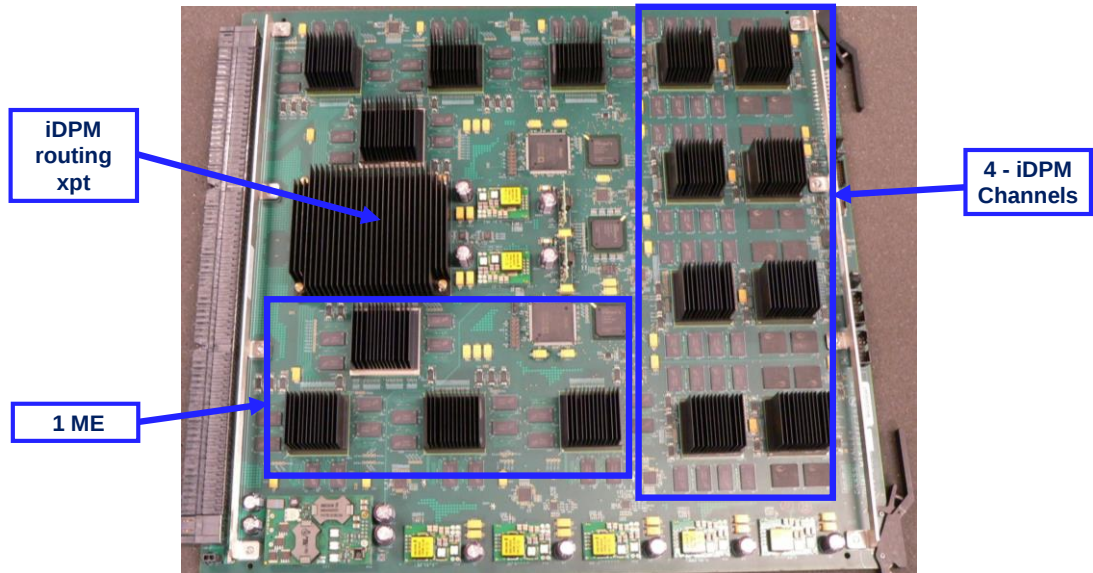
All power supplies are hot swappable and true load sharing.

The power supplies will run on anything from 85 to 264 Volts A.C. at 47 to 63 Hertz.

The power supplies are controlled by a series D.C. ground circuit. The switch and mechanical thermostat on the Frame Controller board are in the circuit.

The Thermostat will shut the power supplies down when the temperature reaches 75 degrees C (167 F). This device will close the circuit when the temperature drops 5 to 8 degrees C.

K-Frame Video Processing Board - Dual Mix Effects



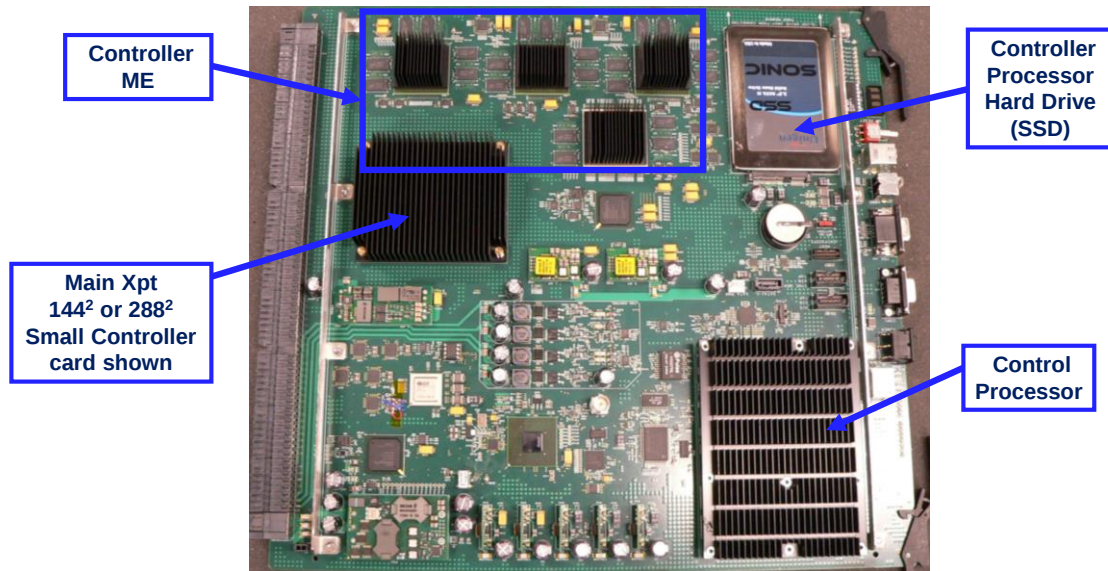
grass valley
A BELDEN BRAND

6A - 10

The Video Processor Dual M E board has no field replaceable parts.

The board has 2 complete M Es (Keys, Wipes, Mixer, 2D-DPMs, ME View) 4 channels of iDPM, and an iDPM routing xpt.

K-Frame - Controller Board



Small Controller Board Shown



6A - 11

The Controller board carries the Controller ME. The Main video routing xpt, The Controller Processor and its hard drive (SSD). It also supports the Serial ports, Ethernet Switch, Sync circuitry and 2 Test Signal and 2 Background generators.

The physical Xpt Chip is different on the 2 versions of the board. The Controller for the large frame also has an additional MultiViewer chip (MX-MV)

K-Frame - Rear I/O Boards

Video Output
Board Shown

Video Input
Board is similar



Modular Input
Output Board



6A - 12

The main input and output boards look very similar.

The Output board (shown here) has 16 pairs of output BNCs

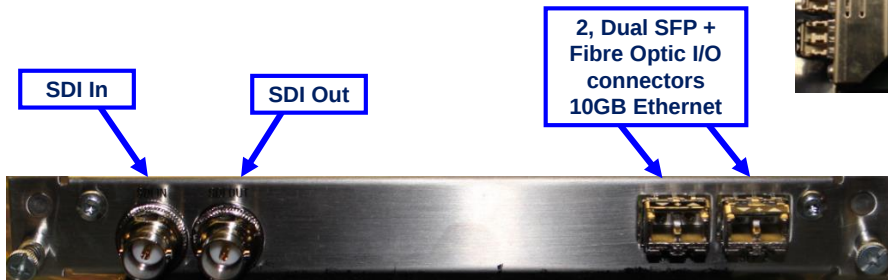
The Input board (Not shown) has 32 individual inputs.

The Modular I/O board is used for Set Def , Match Def or Bypass modes. In bypass it can be used as additional inputs and outputs. Note that if one input is set for Match def the corresponding Out put is set to Bypass. If the Output is set to Set Def the corresponding Input will be in Bypass.

Modular I/O IP card

The IP I/O card has:

- 2 Dual 10Gb Fibre Optic connectors
 - These are SFP PLUS! (Not standard SFP)
 - Each connector is bi-directional
- 2 BNC connectors for TICO compression onto Coax



The modular I/O card has 2 – 10 G ports.

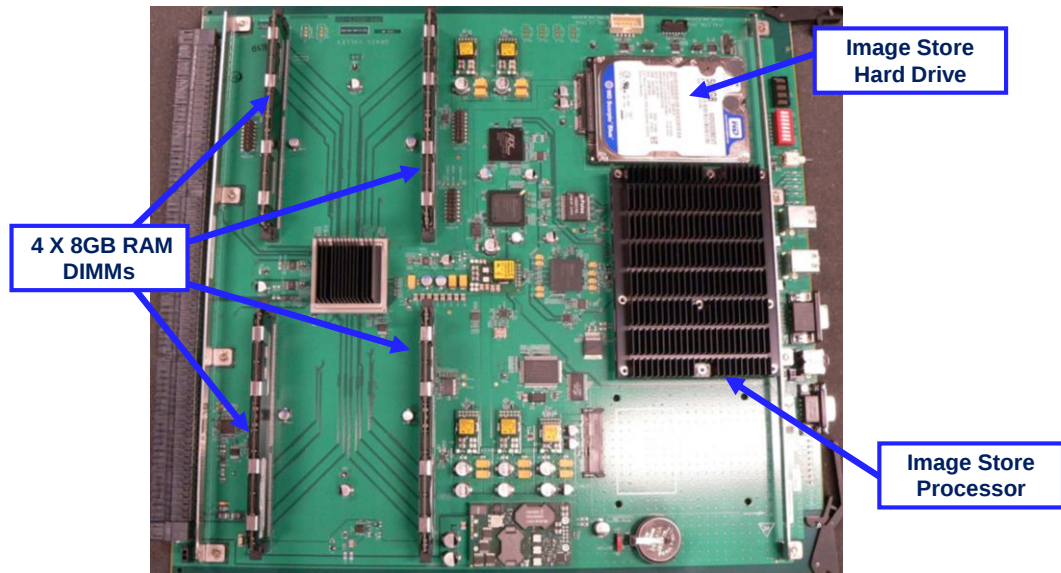
Each 10G port can carry 2 streams of uncompressed data of 1080p (3Gb)

Board uses SFP 'plus' 10G connectors for short distance connection using Fibre Optic cables.

Each Module also has an SDI input and SDI Output connector. These will be discussed later.

The module replaces a standard Modular I/O card and has connections to the Frame interconnect for 4 SDI signals in and 4 SDI signals out.

K-Frame - Image Store Board



6A - 14

The Image Store board operates independently of the main Controller. It has its own Processor, Hard drive for Image storage and up to 32GB of Memory.

All boards are shipped with 32 GB of memory installed. Licensing determines how much is available for use.

K-Frame Diagnostics - Web Browser (1)

Enter Frame IP Address

Select Desired Section

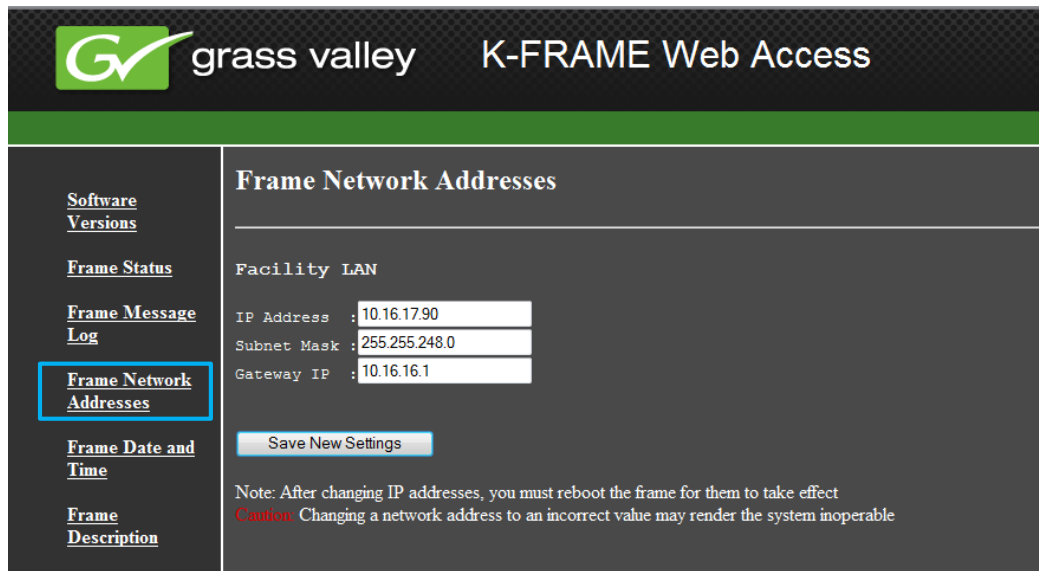
Cell Number	Cell Name	Present	Power	PCIe Link Up	Temp State
A3	Controller	Yes	OK	OK	Warm
A1	Mix Effects A	Yes	OK	OK	Warm
A2	Mix Effects B	Yes	OK	OK	Warm
A4	Mix Effects C	Yes	OK	OK	Warm
A5	Mix Effects D	Yes	OK	OK	Warm
A3	Mix Effects Ctrl	Yes	OK	OK	Cold



6A - 15

Web Browser access to the K-Frame processor showing Status page. This provides a quick way to verify the system operating condition.

K-Frame Diagnostics - Web Browser (6)



The screenshot displays the K-FRAME Web Access interface. At the top, there is a header with the Grass Valley logo and the text "K-FRAME Web Access". Below the header, a sidebar on the left contains a list of navigation links: "Software Versions", "Frame Status", "Frame Message Log", "Frame Network Addresses" (which is highlighted with a blue box), "Frame Date and Time", and "Frame Description". The main content area is titled "Frame Network Addresses" and contains the following information:

Facility LAN

IP Address	: 10.16.17.90
Subnet Mask	: 255.255.248.0
Gateway IP	: 10.16.16.1

Below the table is a button labeled "Save New Settings". A note at the bottom states: "Note: After changing IP addresses, you must reboot the frame for them to take effect". A caution message in red text reads: "Caution: Changing a network address to an incorrect value may render the system inoperable".

The 'Frame and Network Addresses' page enables the frame IP, Subnet Mask and Gateway IP to be set. A reboot is required to activate the Saved addresses.

grass valley

K-FRAME Web Access

Software Versions

Frame Status

Frame Message Log

Frame Assembly Time

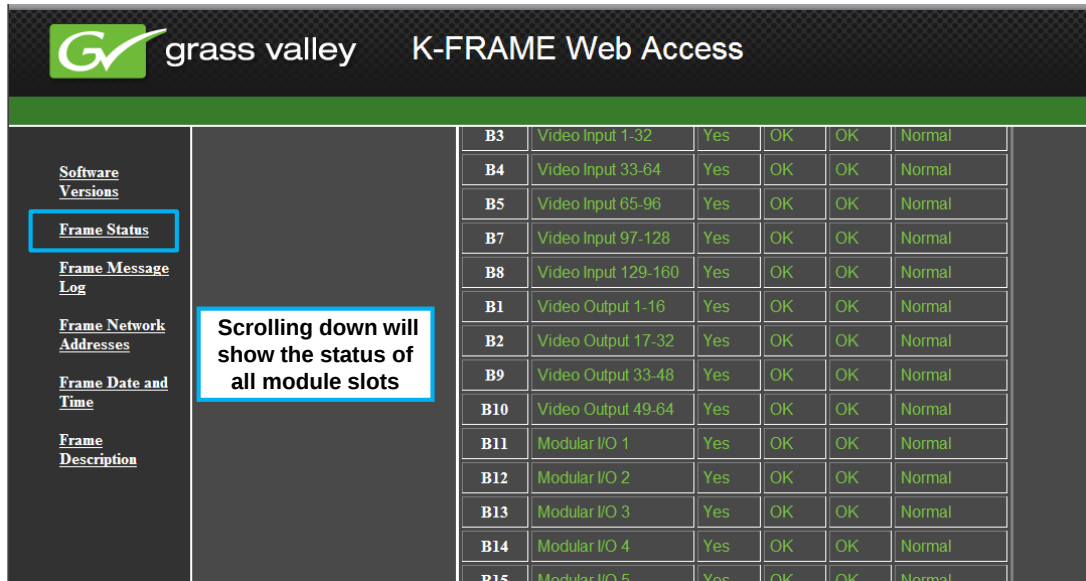
Frame Description

Scrolling down will show the status of all module slots

Board Name	Assembly Number	Assembly Rev	Serial Number	Manufacture ID
Controller	771-0527-00	X2	BH12030169	BH
Control I/O	771-0518-00	X2	BHxxxxxxx	BH
Power Supply Dist				
Mix Effects A	771-0523-00	X3	BH12280110	BH
Mix Effects B	771-0523-00	X3	BH12280112	BH
Mix Effects C	771-0523-00	X3	BH12280113	BH
Mix Effects D	771-0532-00	X2	BH12210006	BEH
Video Input 1-32 Base Board	771-0514-00	X2	BH11480140	BH
Video Input 1-32 Mezzanine	771-0515-00	X2	BH11480172	BH
Video Input 33-64 Base Board	771-0514-00	X2	BH11480132	BH

'Frame Status' shows the state of all Front and Rear frame boards.

K-Frame Diagnostics - Web Browser (2)



grass valley K-FRAME Web Access

Frame Status

Scrolling down will show the status of all module slots

B3	Video Input 1-32	Yes	OK	OK	Normal
B4	Video Input 33-64	Yes	OK	OK	Normal
B5	Video Input 65-96	Yes	OK	OK	Normal
B7	Video Input 97-128	Yes	OK	OK	Normal
B8	Video Input 129-160	Yes	OK	OK	Normal
B1	Video Output 1-16	Yes	OK	OK	Normal
B2	Video Output 17-32	Yes	OK	OK	Normal
B9	Video Output 33-48	Yes	OK	OK	Normal
B10	Video Output 49-64	Yes	OK	OK	Normal
B11	Modular I/O 1	Yes	OK	OK	Normal
B12	Modular I/O 2	Yes	OK	OK	Normal
B13	Modular I/O 3	Yes	OK	OK	Normal
B14	Modular I/O 4	Yes	OK	OK	Normal
B15	Modular I/O 5	Yes	OK	OK	Normal

'Frame Status' shows the state of all Front and Rear frame boards.

K-Frame Diagnostics - Web Browser (4)

grass valley K-FRAME Web Access

Enchilada Frame Message Log: /ahci00:2/boot1/logs/log21.txt

Previous Current Next

These selections will shift between 40 Log Files held in a circular buffer

Software Versions

Frame Status

Frame Message Log

Frame Network Addresses

Frame Date and Time

Frame Description

```
- 12 Apr 2013 13:23:08 (0) = main.map offset = 0xea08120
I 12 Apr 2013 13:23:08 (0) =====
I 12 Apr 2013 13:23:08 (0) K-FRAME
I 12 Apr 2013 13:23:08 (0) Copyright Grass Valley.
I 12 Apr 2013 13:23:08 (0) All Rights Reserved.
I 12 Apr 2013 13:23:08 (0) Version V5.1.0d45, built Apr 11 2013 16:22:26
I 12 Apr 2013 13:23:08 (0) =====
- 12 Apr 2013 13:23:08 (0) HAD E0800000: M/E Board 0, Num.Ver.Rev 3000.c.0, TimeStamp 08/06/2012 11:41, DMA:Yes
- 12 Apr 2013 13:23:08 (0) HAD E0C00000: M/E Board 1, Num.Ver.Rev 3000.c.0, TimeStamp 08/06/2012 11:41, DMA:Yes
- 12 Apr 2013 13:23:08 (0) HAD E1000000: M/E Board 2, Num.Ver.Rev 3000.c.0, TimeStamp 10/30/2012 16:54, DMA:Yes
- 12 Apr 2013 13:23:08 (0) HAD E1400000: M/E Board 3, Num.Ver.Rev 3000.c.0, TimeStamp 08/06/2012 11:41, DMA:Yes
- 12 Apr 2013 13:23:08 (0) HAD E0400000: M/E Board 6, Num.Ver.Rev 3000.c.0, TimeStamp 08/06/2012 11:41, DMA:Yes
- 12 Apr 2013 13:23:08 (0) HAD E2400000: Input Board 0, Num.Ver.Rev 1000.b.0, TimeStamp 08/20/2012 15:18, DMA:N/A
- 12 Apr 2013 13:23:08 (0) HAD E2800000: Input Board 1, Num.Ver.Rev 1000.b.0, TimeStamp 08/20/2012 15:18, DMA:N/A
- 12 Apr 2013 13:23:08 (0) HAD E2C00000: Input Board 2, Num.Ver.Rev 1000.b.0, TimeStamp 08/20/2012 15:18, DMA:N/A
- 12 Apr 2013 13:23:08 (0) HAD E3000000: Input Board 3, Num.Ver.Rev 1000.b.0, TimeStamp 08/20/2012 15:18, DMA:N/A
- 12 Apr 2013 13:23:08 (0) HAD E3400000: Input Board 4, Num.Ver.Rev 1000.b.0, TimeStamp 08/20/2012 15:18, DMA:N/A
- 12 Apr 2013 13:23:08 (0) HAD E1C00000: Output Board 0, Num.Ver.Rev 1800.b.0, TimeStamp 08/22/2012 11:03, DMA:Yes
- 12 Apr 2013 13:23:08 (0) HAD E2000000: Output Board 1, Num.Ver.Rev 1800.b.0, TimeStamp 08/22/2012 11:03, DMA:Yes
- 12 Apr 2013 13:23:08 (0) HAD E3800000: Output Board 2, Num.Ver.Rev 1800.b.0, TimeStamp 08/22/2012 11:03, DMA:Yes
- 12 Apr 2013 13:23:08 (0) HAD E3C00000: Output Board 3, Num.Ver.Rev 1800.b.0, TimeStamp 08/22/2012 11:03, DMA:Yes
- 12 Apr 2013 13:23:08 (0) HAD E4000000: Modular I/O 0, Num.Ver.Rev 4000.b.0, TimeStamp 08/22/2012 14:12, DMA:Yes
- 12 Apr 2013 13:23:08 (0) HAD E4400000: Modular I/O 1, Num.Ver.Rev 4000.b.0, TimeStamp 08/22/2012 14:12, DMA:Yes
- 12 Apr 2013 13:23:08 (0) HAD E4800000: Modular I/O 2, Num.Ver.Rev 4000.b.0, TimeStamp 08/22/2012 14:12, DMA:Yes
- 12 Apr 2013 13:23:08 (0) HAD E4C00000: Modular I/O 3, Num.Ver.Rev 4000.b.0, TimeStamp 08/22/2012 14:12, DMA:Yes
- 12 Apr 2013 13:23:08 (0) HAD E5000000: Modular I/O 4, Num.Ver.Rev 4000.b.0, TimeStamp 08/22/2012 14:12, DMA:Yes
```



6A - 19

The 'Frame Message Log' shows the contents of a 40 page circular buffer. This information is saved with the 'Capture Diagnostic Data'.

K-Frame Diagnostics - Image Store - Web Browser

Enter Image Store IP Address

Image Store Software

Processor	Version	Date
Image Store	V5.1.0d45	Apr 11 2013 16:16:16

Image Store FPGAs

Name	Number	Version	Revision	Compile Time
Control FPGA	5000	B	0	Feb 27 2013 17:32:00
Video FPGA	5001	U	A	Mar 28 2013

Image Store Board Information

Serial Number	Assembly Number	HW Rev	MFG ID
BH12440013	771-0525-00	A	BH

grass valley
A BELDEN BRAND

6A - 20

The Images store has it's own Web information. The pages are very similar to the frame processor pages.

K-Frame Diagnostics - Image Store - Web Browser

grass valley Image Store Web Access

[Software Versions](#)
[HW Status](#)
[Message Log](#)
[Network Addresses](#)
[Date and Time](#)
[Description](#)

Network Addresses

Current LAN Network Configuration

Primary IP Address : 10.16.17.91
Secondary IP Address: 10.16.17.92
Subnet Mask : 255.255.248.0
Gateway IP : 10.16.16.1

LAN Network Configuration After Reboot

Primary IP Address :
Secondary IP Address:
Subnet Mask :
Gateway IP :

Note: After changing IP addresses, you must reboot the frame for them to take effect
Caution: Changing a network address to an incorrect value may render the system inoperable



6A - 21

There are 2 IP addresses for the Image Store. The frame normally communicates to IP address frame IP address +1.

In this example the frame is at 10.16.17.90.

The second IP address connects to a dedicated Ethernet port on the rear of the frame.

K-Frame Capture System Diagnostics - Menu

Selecting Capture Diagnostic Data will enable all data from the Frame, Menu and Panel Processors to be saved

KAYENNE K-FRAME VIDEO PRODUCTION CENTER

Node Name	Control Surface	Node Type	IP Address	Version	Date
Bay-8-90		Video Proc Frame	10.16.17.90	V5.1.0d42	Apr 2 2013
Bay-8-4ME Pnl	2 A	Kayenne Panel	10.16.17.123	V5.1.0d42	Apr 2 2013
Kayenne Panel		Kayenne Panel	10.16.17.124	V5.1.0d42	Apr 2 2013
Bay-8-2ME Pnl	1 A	Kayenne Panel	10.16.17.93	V5.1.0d42	Apr 2 2013
Image Store		Image Store	10.16.17.91	V5.1.0d42	Apr 2 2013
Bay-8-4ME Menu	2 A	Menu Panel	10.16.17.125	V5.1.0d42	Apr 2 2013
Clip Store		Clip Store Summit	10.16.17.206	V8.1.11.181	

Menu Version: Ver d42 V5.1.0

Memory Usage: Memory 18%

Buttons: Minimize Menu, Restart or Exit Menu, Shutdown Menu Computer, Capture Software Diagnostic Data

Bottom Menu Bar: Eng Login, SetDef MatchDef, Source Definition, Outputs, Ports & Devices, Switcher Tally, Router, ClipStore Config, Video Settings, Node Settings, Install Options, Test Patterns, Status, Save Load, Acquire Resources, eDPM, SWR, User Setups, File Ops, E-MEM & Timeline, Macros, Source Ops, ME, Keyer, iDPM, Wipes, Copy Swap, Devices, Image Store, Router, Eng Setup

Saving Diagnostic data takes about 15-30 minutes.

The menu will be inoperable during this time. The switcher will still be operational but may not operate as normal.

[illegible]

K-Frame Diagnostics - Telnet (2)

```

c:\ Telnet 10.16.17.90
> consoleMenu
[1] Status           [2] Controller       [3] ME
[4] Input            [5] Output           [6] ModIO
[7] Image Store      [8] Multi Viewer     [9] Debug
[10] Software Options [11] Fan Controller  [12] Power Supply
[13] Boot Sw Help    [14] Test Diagnostics [15] DisableAllUpdates
[16] Prod Test Setup [17] DisableAllMonitoring [18] Exit to shell
> 9
[1] GPI              [2] Tally            [3] MessageControl
[4] TimeThreads       [5] Router Control   [6] RDP/CPL Tests
[7] Show image info   [8] Show DMA info    [9] Feature Tests
[10] Transition        [11] Switch Image DMA [12] Temp Show All
[13] Temp Adjust Params [14] Dump HAD Info  [15] Flash HADs
[16] NP Aux Control    [17] Field Timing    [18] CPL Msg Timing
[19] Display Re-entries [20] DebugNetwork   [21] DebugStillStore
[22] Debug Event Control [23] Exit
Debug> 12

```

Id	Sensor Name	Location	Temp(C)	State	Cold2Norm	Norm2Warm	Warn2Hot	Hot2TooHot
0	Cntl Board	Near Front	49.5	Warm	20.0	50.0	60.0	80.0
1	Cntl Board	Near Rear	54.0	Warm	40.0	55.0	70.0	80.0
2		Cntl SBC	63.0	Normal	60.0	75.0	90.0	100.0
3	Cntl DC/DC	12.0V	50.0	Normal	40.0	65.0	100.0	110.0
4	Cntl DC/DC	1.5V	58.5	Normal	40.0	65.0	100.0	110.0
5	Cntl DC/DC	0.9V	73.3	Warn	40.0	65.0	100.0	110.0
6	Cntl Large Frame	Xpt	45.0	Normal	40.0	65.0	85.0	95.0
7		IO Board	29.5	Normal	20.0	40.0	60.0	80.0
8	PS Left	Inlet	27.0	Cold	30.0	40.0	50.0	60.0
9	PS Left	Hot Spot	40.0	Normal	30.0	50.0	70.0	90.0
10	PS Middle	Inlet	29.0	Cold	30.0	40.0	50.0	60.0
11	PS Middle	Hot Spot	40.0	Normal	30.0	50.0	70.0	90.0
12	PS Right	Inlet	29.0	Normal	30.0	40.0	50.0	60.0
13	PS Right	Hot Spot	40.0	Normal	30.0	50.0	70.0	90.0
14	MEA Board		60.5	Warn	40.0	55.0	70.0	80.0
15	MEA DC/DC	12.0V	75.0	Warn	40.0	65.0	100.0	110.0
16	MEA DC/DC	2.5V	85.6	Warn	40.0	65.0	100.0	110.0
17	MEA DC/DC	1.8V	66.3	Warn	40.0	65.0	100.0	110.0
18	MEA DC/DC	1.5V	73.0	Warn	40.0	65.0	100.0	110.0

The Debug (9) command and TempShow (12) command can provide useful information

Take extreme care when communicating to the frame in this way as some commands can render the system inoperable.

K-Frame Logs

```

- 01 Apr 2013 15:15:53 (O) = main.map offset = 0xea08120
I 01 Apr 2013 15:15:53 (O) =====
I 01 Apr 2013 15:15:53 (O) K-FRAME
I 01 Apr 2013 15:15:53 (O) Copyright Grass Valley.
I 01 Apr 2013 15:15:53 (O) All Rights Reserved.
I 01 Apr 2013 15:15:53 (O) Version V5.1.0d41, built Mar 28 2013 10:41:45
I 01 Apr 2013 15:15:53 (O) =====
- 01 Apr 2013 15:15:53 (O) HAD E0800000: M/E Board 0, Num.Ver.Rev 3000.c.0, TimeStamp 08/06/2012 11:41, DMA:Yes
- 01 Apr 2013 15:15:53 (O) HAD E0C00000: M/E Board 1, Num.Ver.Rev 3000.c.0, TimeStamp 08/06/2012 11:41, DMA:Yes
- 01 Apr 2013 15:15:53 (O) HAD E1000000: M/E Board 2, Num.Ver.Rev 3000.c.0, TimeStamp 10/30/2012 16:54, DMA:Yes
- 01 Apr 2013 15:15:53 (O) HAD E1400000: M/E Board 3, Num.Ver.Rev 3000.c.0, TimeStamp 08/06/2012 11:41, DMA:Yes
- 01 Apr 2013 15:15:53 (O) HAD E0400000: M/E Board 6, Num.Ver.Rev 3000.c.0, TimeStamp 08/06/2012 11:41, DMA:Yes
- 01 Apr 2013 15:15:53 (O) HAD E2400000: Input Board 0, Num.Ver.Rev 1000.b.0, TimeStamp 08/20/2012 15:18, DMA:N/A
- 01 Apr 2013 15:15:53 (O) HAD E2800000: Input Board 1, Num.Ver.Rev 1000.b.0, TimeStamp 08/20/2012 15:18, DMA:N/A
- 01 Apr 2013 15:15:53 (O) HAD E2C00000: Input Board 2, Num.Ver.Rev 1000.b.0, TimeStamp 08/20/2012 15:18, DMA:N/A
- 01 Apr 2013 15:15:53 (O) HAD E3000000: Input Board 3, Num.Ver.Rev 1000.b.0, TimeStamp 08/20/2012 15:18, DMA:N/A
- 01 Apr 2013 15:15:53 (O) HAD E3400000: Input Board 4, Num.Ver.Rev 1000.b.0, TimeStamp 08/20/2012 15:18, DMA:N/A
- 01 Apr 2013 15:15:53 (O) HAD E1C00000: Output Board 0, Num.Ver.Rev 1800.b.0, TimeStamp 08/22/2012 11:03, DMA:Yes
- 01 Apr 2013 15:15:53 (O) HAD E2000000: Output Board 1, Num.Ver.Rev 1800.b.0, TimeStamp 08/22/2012 11:03, DMA:Yes
- 01 Apr 2013 15:15:53 (O) HAD E3800000: Output Board 2, Num.Ver.Rev 1800.b.0, TimeStamp 08/22/2012 11:03, DMA:Yes
- 01 Apr 2013 15:15:53 (O) HAD E3C00000: Output Board 3, Num.Ver.Rev 1800.b.0, TimeStamp 08/22/2012 11:03, DMA:Yes
- 01 Apr 2013 15:15:53 (O) HAD E4000000: Modular I/O 0, Num.Ver.Rev 4000.b.0, TimeStamp 08/22/2012 14:12, DMA:Yes
- 01 Apr 2013 15:15:53 (O) HAD E4400000: Modular I/O 1, Num.Ver.Rev 4000.b.0, TimeStamp 08/22/2012 14:12, DMA:Yes
- 01 Apr 2013 15:15:53 (O) HAD E4800000: Modular I/O 2, Num.Ver.Rev 4000.b.0, TimeStamp 08/22/2012 14:12, DMA:Yes
- 01 Apr 2013 15:15:53 (O) HAD E4C00000: Modular I/O 3, Num.Ver.Rev 4000.b.0, TimeStamp 08/22/2012 14:12, DMA:Yes
- 01 Apr 2013 15:15:53 (O) HAD E5000000: Modular I/O 4, Num.Ver.Rev 4000.b.0, TimeStamp 08/22/2012 14:12, DMA:Yes
- 01 Apr 2013 15:15:53 (O) HAD E5400000: Modular I/O 5, Num.Ver.Rev 4000.b.0, TimeStamp 08/22/2012 14:12, DMA:Yes
- 01 Apr 2013 15:15:53 (O) HAD E5800000: Modular I/O 6, Num.Ver.Rev 4000.b.0, TimeStamp 08/22/2012 14:12, DMA:Yes
- 01 Apr 2013 15:15:53 (O) HAD E5C00000: Modular I/O 7, Num.Ver.Rev 4000.b.0, TimeStamp 08/22/2012 14:12, DMA:Yes
- 01 Apr 2013 15:15:53 (O) IDT PCIe switch in DMA mode (config 0x0000016f)
- 01 Apr 2013 15:15:53 (O) DMA transfer subsystem ENABLED
- 01 Apr 2013 15:15:53 (O) EDaR Crash Dumps Enabled
- 01 Apr 2013 15:15:53 (O) EDaR Crash Dump directory set to: /ahci00:2/boot1/DUMP/DUMP_4-1-2013
- 01 Apr 2013 15:15:53 (O) Core Dump directory set to: /ahci00:2/boot1/DUMP/DUMP_4-1-2013
- 01 Apr 2013 15:15:53 (O)
- 01 Apr 2013 15:15:53 (O) *** Console to Log STD_OUT restored. ***
- 01 Apr 2013 15:15:53 (O) add net 0.0.0.0: netmask 0.0.0.0: gateway 10.16.16.1
- 01 Apr 2013 15:15:53 (O) Controller FPGA Files FPGA FileNames() Num:2

```

A reboot will always start a new page with the header information



The K frame logs can be viewed in the web browser or from any captured Diagnostic data file.

Current shows the most current page in the web browser.

A reboot will always appear at the top of the page.

The screenshot shows a Windows File Explorer window with the following structure:

- DIAGS 2013-4-1
 - Frame (highlighted with a blue box)
 - boot1
 - DUMP
 - LOGS
 - INV
 - srcmem
 - suite1
 - cues
 - edpms
 - emems
 - macros
 - rmems
 - srcmem
 - suite2
 - cues
 - edpms
 - emems
 - macros
 - rmems
 - srcmem
 - boot2
 - Image Store
 - boot1
 - boot2
 - Menu
 - K-Frame Menu
 - Bitmaps
 - Data
 - Drivers
 - Nodes (highlighted with a blue box)
 - PanelPrf
 - Panel3Prf
 - RemAux
 - SrcRls
 - SrcRls2
 - Suite2Prf
 - SuitePrf
 - SysConfig

On the right side of the window, a table lists the files and folders:

Name	Size	Type	Date Modified
srcmem		File Folder	4/4/2013 1:24 PM
suite1		File Folder	4/4/2013 1:24 PM
suite2		File Folder	4/4/2013 1:24 PM
Nodes	2 KB	NVA File	4/1/2013 4:37 PM
PanelPrf	116 KB	NVA File	4/1/2013 4:37 PM
Panel3Prf	120 KB	NVA File	4/1/2013 4:37 PM
RemAux	192 KB	NVA File	4/1/2013 4:37 PM
SrcRls	529 KB	NVA File	4/1/2013 4:37 PM
SrcRls2	529 KB	NVA File	4/1/2013 4:37 PM
Suite2Prf	327 KB	NVA File	4/1/2013 4:37 PM
SuitePrf	323 KB	NVA File	4/1/2013 4:37 PM
SysConfig	224 KB	NVA File	4/1/2013 4:37 PM

A text box on the right side of the window contains the following text:

Saving Diagnostic data will capture all the information from the Frame, Image Store, Menu and Panel processors

Saving Diagnostic data will capture all the information from the Frame, Image Store, Menu and Panel processors



6A - 27

The System Configuration will show all of the Engineering information.

[illegible]

```
<?xml version="1.0" encoding="ISO-8859-1" standalone="yes"?>
<SystemConfig xmlns="urn:grassvalley.com:ENCL1AD:lvn:V5.1.0d41">
<SystemCfg ID="62000000" nType="obj">
<param name="ImageStoreName" datatype="String">Image Store</param>
<param name="Cgi" datatype="String" datatype="UInt32">303304714</param>
<PeriSetup ID="1" nType="obj">
<RouterIF ID="1" nType="obj">
<param name="RouterTypeRouterIPAddress" datatype="String">10.16.16.23</param>
<param name="RouterTypeRouterIPAddressSec" datatype="String">10.16.16.24</param>
</RouterIF>
<RemuxIF ID="0" nType="obj">
<param name="RemuxConfigured" datatype="Bool">true</param>
<param name="CtrlSurfaceNumber" datatype="UInt16">1</param>
<param name="RemuxPanelName" datatype="String">126</param>
<param name="RemuxPanelID" datatype="State">1</param>
<param name="RemuxEstinationType" datatype="State">1</param>
<param name="RemuxIPAddress" datatype="String">10.16.20.126</param>
</RemuxIF>
<EditorIF ID="0" nType="obj">
<param name="DeviceName" datatype="String">Editor 1</param>
</EditorIF>
<EditorIF ID="1" nType="obj">
<param name="DeviceName" datatype="String">Editor 2</param>
</EditorIF>
<SrcMachineIF ID="1" nType="obj">
<param name="DeviceName" datatype="String">SG3-1</param>
<param name="MachineControl" datatype="State">3</param>
<param name="VrIfProtocol" datatype="State">5</param>
<param name="SerialPortNum" datatype="Int16">4</param>
</SrcMachineIF>
<SrcMachineIF ID="2" nType="obj">
<param name="DeviceName" datatype="String">SK2-1</param>
<param name="MachineControl" datatype="State">3</param>
<param name="VrIfProtocol" datatype="State">5</param>
<param name="SerialPortNum" datatype="Int16">5</param>
</SrcMachineIF>
<SrcMachineIF ID="6" nType="obj">
<param name="DeviceName" datatype="String">K2-2</param>
<param name="VrIfType" datatype="State">1</param>
<param name="MachineControl" datatype="State">3</param>
<param name="VrIfProtocol" datatype="State">5</param>
<param name="OmniBusDeviceIPAddress" datatype="UInt32">94083922</param>
</SrcMachineIF>
```



grass valley
A BELDEN BRAND

An example of a Sys Config file from captured Diagnostic Data NV file.

```
<?xml version="1.0" encoding="ISO-8859-1" standalone="yes"?>
<?PersistentNodes xmlns="urn:grassvalley.com:ENCHILADA:nv/5.1.0d40">
<SystemCfg Id="62000000" nType="obj">
  <Nodes Id="1" nType="obj">
    <Node Id="1" nType="obj">
      <param name="NodeIPAddress" datatype="UInt32">1611730954</param>
      <param name="Name" datatype="String">Bay-8 2ME Menu</param>
    </Node>
    <Node Id="2" nType="obj">
      <param name="NodeIPAddress" datatype="UInt32">1561399306</param>
      <param name="Name" datatype="String">Bay-8 2ME Pnl</param>
    </Node>
    <Node Id="3" nType="obj">
      <param name="NodeIPAddress" datatype="UInt32">2098270218</param>
      <param name="Name" datatype="String">Bay-8 4ME Menu</param>
      <param name="SuiteNumber" datatype="UInt64">1</param>
    </Node>
    <Node Id="4" nType="obj">
      <param name="NodeIPAddress" datatype="UInt32">2064715786</param>
      <param name="Name" datatype="String">Bay-8 4ME Pnl</param>
      <param name="SuiteNumber" datatype="UInt64">1</param>
    </Node>
    <Node Id="5" nType="obj">
      <param name="NodeIPAddress" datatype="UInt32">214601866</param>
      <param name="Name" datatype="String">Bay-8 KSP</param>
      <param name="SuiteNumber" datatype="UInt64">1</param>
    </Node>
    <Node Id="6" nType="obj">
      <param name="NodeIPAddress" datatype="UInt32">2483163146</param>
      <param name="Name" datatype="String">Cliff-PC</param>
    </Node>
    <Node Id="15" nType="obj">
      <param name="NodeIPAddress" datatype="UInt32">1845628938</param>
      <param name="Name" datatype="String">RRIR PC</param>
    </Node>
    <Node Id="16" nType="obj">
      <param name="NodeIPAddress" datatype="UInt32">437915658</param>
      <param name="Name" datatype="String">andre</param>
      <param name="SuiteNumber" datatype="UInt64">1</param>
    </Node>
  </Nodes>
</SystemCfg>
</PersistentNodes>
```



grass valley
A BELDEN BRAND