

Avid Configuration Guidelines HP Z820 Dual Six-Core / Dual Eight-Core CPU Workstation Media Composer 6.x Symphony 6.x NewsCutter 10.x and later



1.) HP Z820 AVID Qualified System Specification:

Z820 / AVID Qualified Operating System:

Microsoft® Windows 7 Professional 64-bit Edition with Service Pack 1

Z820 Hardware Configuration

Supported CPU Choices

- 1.) Dual Intel® 6-Core Xeon® E5-2640 Processors @ 2.5GHz 15MB cache / 1600MHz memory (The 6-Core Xeon® E5-2640 Processors will run the 1600MHz memory at 1333MHz speed due to the speed limitation of the memory controller in the E5-2640 Processor).
- 2.) Dual Intel® 8-Core Xeon® E5-2665 Processors @ 2.4GHz 20MB cache / 1600MHz memory

Supported Video Card

NVIDIA Quadro 4000 2GB PCI-e video board

System Disk Drive - 1TB (minimum recommended) SATA-II 3Gb/s 7200RPM

Standard AVID memory configuration: 16GB (8 x 2GB) DDR3 1600 ECC memory -(Requires eight 2GB DIMMs, DIMM sizes cannot be mixed sizes)

2GB memory modules must be installed in the following memory slots: CPU0-DIMM1, CPU0-DIMM3, CPU0-DIMM6, CPU0-DIMM8 CPU1-DIMM1, CPU1-DIMM3, CPU1-DIMM6, CPU1-DIMM8

Memory configuration constraints

No other memory configurations are formally supported in AVID environments. Only the 16GB (8 x 2GB), configuration is supported. Un-balanced memory configurations which mix and match memory module sizes and locations will result in a poor performing, non-optimal operating environment.

2.) Qualified Operating Systems, Avid Client Editing Applications, Hardware and Shared-Storage support for the HP Z820:

- Media Composer / Symphony 6.x, NewsCutter 10.x or later
- Supported: Only Microsoft® Windows 7 Professional 64-bit Edition with SP1 (SP1 required)
- Not Supported Any version of Microsoft® Windows XP or Vista
- Not Supported Microsoft® Windows 7 any 32-bit version, or any version of Home, Ultimate or Enterprise editions.

Note regarding Service packs:

As of this writing Service Pack 1 is the current Service Pack release for Win7. SP1 is required for Media Composer 6.x, Symphony 6.x and NewsCutter 10.x. As future Service Packs are released Avid will evaluate and announce formal support when testing is completed.

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3.) Qualified O.S., Hardware and shared storage supported:

	Qualified / Supported
Nitris DX / Mojo DX	Yes
3 rd Party Qualified Hardware	See release notes and Avid website for information regarding supported 3 rd party hardware (vendor qualified)
Unity ISIS 1Gb Ethernet Client	ISIS 5000 / 7000 V4.0
Unity ISIS Hi-res (10 Gbit) client	ISIS 5000 / 7000 V4.0
Qualified Operating System	Win 7 Pro 64-bit
Service Pack	SP1 – Required
1394 Adrenaline DNA	N/A Not Supported
1394 Mojo-SDI DNA	N/A Not Supported
1394 Mojo-Analog DNA	N/A Not Supported

AVID qualified HBA info

AVID qualified HBA	AVID Part Number	Slot Location	Function
Vendor qualified 3 rd party hardware interface requiring: x4 PCI-E or lesser interface ¾ Length PCI form factor or smaller	Not stocked by AVID	#1	Vendor qualified 3 rd party hardware interface. See release notes and Avid website for information regarding supported 3 rd party hardware
Vendor qualified 3 rd party hardware interface requiring: x8 PCI-E or greater interface Full Length PCI form factor	Not stocked by AVID	#6	Vendor qualified 3 rd party hardware interface. See release notes and Avid website for information regarding supported 3 rd party hardware
Intel PRO 1000 PT	7030-20139-01	#3	Shared Storage: Unity ISIS Copper Gb-Ethernet Dual Gb ISIS Connectivity
Intel i350-T2 – Dual Gb NIC	Not stocked by AVID	#3	Shared Storage: Unity ISIS Copper Gb-Ethernet Dual Gb ISIS Connectivity
Intel PRO 1000 PF - ISIS	Not stocked by AVID	#3	Shared Storage: Unity ISIS Optical Gb-Ethernet
Myricom 10G-PCIE-8B-S	7030-30041-01	#3	Shared Storage: Unity ISIS 10Gb-Ethernet for Hi-Res client (ISIS 5000 / 7000)
Avid HIB, DX Interface HBA**	Active: 7030-30048-01 Active: 7030-20084-01 Passive: 7030-30021-01	#5	Avid DX Hardware Interface HBA
Atto R680	Not stocked by AVID	#1 or #4	Local SAS Storage Support – Avid VideoRAID ST (5-bay) Xtore StudioRAID 5Ti (5-bay)
LSI 9200-8e SAS controller	7030-30036-01	#1 or #4	SAS Local Storage: Xtore StudioRAID 16Re (16-bay) chassis Xtore StudioRAID 5Te (5-bay) chassis
Pro Tools HD h/w		#3 and / or #4	Pro-Tools h/w for Pro-Tools co-install
Red Rocket Accelerator	Not stocked by AVID	#3, #4 or #6	Accelerator for RED files

** Avid DX Interface HBA Support Note: (See reference pictures on page 7 of this guide).

All 3 versions of the DX interface HBA are supported on the Z820 with Media Composer / Symphony 6.x and

NewsCutter 10.x

- 1) Active DX interface HBA 7030-30048-01
- 2) Active DX interface HBA 7030-20084-01
- 3) Passive DX interface HBA 7030-30021-01

4.) Slot Configuration:

	Slot Configuration Information				
Slot #	Electrical	Mechanical			
1	x4 PCI-E Gen 3	x8 Open- ended Connector	Vendor Qualified 3 rd Party Hardware PCI-e Interface requiring: x4 PCI-E or lesser interface ¾ Length PCI form factor or smaller <u>OR</u> (Secondary slot location) Local SAS Storagec ontrollers: Atto R680 LSI 9200-8e		
2	x16 PCI-E Gen 3 (225Watts)	x16	Graphics Card: Nvidia Quadro 4000		
3	x8 PCI-E Gen 3	x16	Shared Storage Controllers ISIS 5000 / 7000: Intel PRO 1000 PT Intel PRO 1000 PF Intel i350-T2 Myricom 10G-PCIE-8B-S <u>or</u> Pro Tools HD h/w <u>or</u> Red Rocket Accelerator		
4	x16 PCI-E Gen 3	x16	Local SAS Storage Controllers: Atto R680 LSI 9200-8e <u>or</u> Pro Tools HD h/w <u>or</u> Red Rocket Accelerator		
5	x4 PCI-E Gen 2	x16	Avid HIB, DX Interface HBA Active: 7030-30048-01 & 7030-20084-01 Passive: 7030-30021-01		
6	x16 PCI-E Gen 3	x16	Vendor Qualified 3 rd Party Hardware PCI-e Interface requiring: x8 PCI-E or greater interface Full - Length PCI form factor <u>or</u> Red Rocket Accelerator		
7	PCI-E 32bit /33MHz	PCI 32/33	Secondary SAS Port Break-out connector (Embedded)		
	Embedded Intel 82574L Gb NIC	PCI-E x1 Gen 1	<u>Qualified</u> for Avid ISIS 5000 / 7000 connectivity. This is the NIC port adjacent to the Firewire port		
	Embedded Intel 82579LM Gb NIC	PCI-E x1 Gen 1	Do not use for ISIS. Not qualified and is not functional with ISIS 5000 / 7000. This is the NIC port adjacent to the blue and green audio jacks		

5.) Use of embedded NIC ports for ISIS connectivity Important Information

The Z820 has two embedded NIC ports. One port is the 82574L. The 82574L port is qualified for ISIS and should be used for single Gb connectivity to ISIS 5000 / 7000. The 82574L port is the port directly above the Firewire port. The other embedded NIC port is an 82579LM. <u>The 82579LM will not work with ISIS and should never be connected to either ISIS 5000</u> or 7000. The 82759LM port is marked with the letters AMT and is adjacent to the blue and green audio jacks.

Embedded Intel network interface for ISIS connectivity:



For proper operation and connectivity of the Intel 82574L network interface with ISIS the following settings are required:

- 1. For the Intel 82574L driver, under the performance settings, change the following parameters:
 - Receive Buffers to 1024
 - Transmit Buffers to 1024
- 2. Disable the windows firewall.

6.) Utilization of the Z820 embedded (on-board) 1394 ports for Camera / Deck / Disk Drive support

Media Composer / Symphony 6.0 and NewsCutter 10 do not support Avid 1394 hardware such as Adrenaline and 1394 Mojo-SDI. This simplifies utilization of the Z820 embedded 1394 ports. The embedded 1394 ports can and should be used for all 1394 Camera / Deck / Disk Drive connectivity for all configurations running Media Composer / Symphony 6.0 and NewsCutter 10.

7.) Various Configuration Details:

A.) D/X hardware configs -

All 3 versions of the DX interface HBA are supported with the Media Composer / Symphony 6.x and NewsCutter 10.x

- 1) Active DX interface HBA 7030-30048-01
- 2) Active DX interface HBA 7030-20084-01
- 3) Passive DX interface HBA 7030-30021-01



Passive DX interface HBA (7030-30021-01)



B.) Qualified Avid system BIOS version(s): (As of this writing):

Failure to update the Z820 to an "Avid qualified BIOS" and set the BIOS settings per the instructions below may result in non-optimal operation of the AVID software and hardware.

- Minimum BIOS ver 1.12

Current Avid qualified Z820 BIOS information is maintained at the following Avid KB link:

http://avid.custkb.com/avid/app/selfservice/search.jsp?DocId=267609&Hilite=hp+bios

C.) Required system BIOS settings for AVID environments:

Hyper-Threading Setting:

<u>Please Note:</u> CPU Hyper-threading should be enabled in all configurations per the chart below. It is currently enabled by default by HP for shipping Z820's with BIOS ver 1.12 or earlier

	Hyper-Threading Setting		
Software Version	Dual 6-core CPU	Dual 8-core CPU	
Media Composer v6.x Symphony v6.x NewsCutter v10.x	Enabled (Mandatory)	Enabled (Mandatory)	

Z820 Required system BIOS changes:

- 1. Verify CPU Processors are set to Hyper-Threading Set per chart above. Current version BIOS v1.12 has Hyper-Threading enabled by default
- 2. Set Memory NUMA Disable
- 3. Set Runtime Power Management Disable
- 4. Set Idle Power Savings Normal

Z820 Optional system BIOS change:

1. Set Intel Turbo Mode^{**} – Disable

** Only required if connecting USB audio I/O devices. This setting will eliminate any audio "motor-boating" or audio "popping" which may be experienced with USB audio I/O devices.

Set Z820 Required system BIOS changes:

- During boot up press F10 at the HP splash screen to invoke Set Up.
- Select the Advanced tab
- Select Device Options <Enter>
- Select Hyper-Threading
- Verify setting is Enable
 - If Hyper-Threading is set for Disable then it must be changed to Enable
- Hi F10 to save the Hyper-Threading setting
- Select the Power tab
- Select OS Power Management <return>
- Select Runtime Power Management
- Default setting is Enable
 - Change this setting from Enable to Disable
- Select Idle Power Savings
 - Default setting is Extended
 - Change this setting from Extended to Normal
- Hi F10 to save the Runtime Power Management and Idle Power Savings settings
- Select Advanced Tab
- Select BUS options
- Select NUMA
- Default setting is Enable
 - Change this setting from Enable to Disable
- Hi F10 to save the NUMA setting
- Press F10 twice to Save
- Save Changes and Exit
- System will Reboot

Set Z820 Optional system BIOS setting: ** Only required if connecting USB audio I/O devices.

- Select the Power tab
- Select Hardware Power Management <Enter>
- Select Intel Turbo Mode
- Default setting is Enable
 - Change this setting from Enable to Disable
- Press F10 twice to Save
- Save Changes and Exit

D.) Nvidia Qualified Driver:

Nvidia qualified drivers

AVID Software	Version(s)	Nvidia GPU	Nvidia Driver Required
Media Composer / Symphony NewsCutter	6.0 and later 10.0 and later	Quadro 4000	275.89

After installation of the AVID software the supported Nvidia driver can be found in the following directory: Program Files / Avid / Utilities / Nvidia

Set optimized Nvidia driver settings for Avid editing environments:

- 1. See picture below
- 2. Right-Click on the desktop and select Nvidia Control Panel
- 3. Select the "Desktop" menu selection in the control panel menu bar.
- 4. Enable "Desktop -> Video Editing Mode

NVIDIA Control Panel	
File Edit Desktop Help	
Bac Phable Video Editing Mode	
Select a Ta V Add Desktop Context Menu	
Settings - Adjust image settings with preview - Manage 3D settings - Set Physic configuration - Display - Change resolution - Adjust desktop color settings - Rotate display - View HDCP status - Adjust desktop size and position - Set up multiple displays Stereoscopic 3D - Set up stereoscopic 3D - View compatibility with games - Video - Adjust video color settings - Adjust video image settings - Workstation - View Mosaic	<section-header><section-header><section-header><section-header><section-header><section-header><text><text><text><text></text></text></text></text></section-header></section-header></section-header></section-header></section-header></section-header>
System Information	

- 5. Select Manage 3D Settings
- 6. Select "Global Settings" Tab
- 7. Under the "Global Settings" tab select "Base Profile" as shown in the picture below:

NVIDIA Control Panel			
File Edit View Help			
G Back + 🕑 🎧 🛄 Advanced	Settings 👻		
Select a Task	Manage 3D Settin	nøs	4
Select a Task 30 Settings Adjust image settings with preview <u>Vanage 30 settings</u> Set Physic configuration Display Change resolution Adjust desktop size and position Rotate display View HDCP status Set up multiple displays Stereoscopic 30 Setreoscopic 30 View compatibility with games Video Adjust video color settings Adjust video image settings Video Adjust video image settings Wideo View system topology	Manage 3D Setting You can change the global 3D settings You can change the global 3D settings I would like to use the following 3D set Global Settings Global Settings Program Settings Global presets: Base profile Settings: Feature Antiellasing - Gamma correction Antialiasing - Line gamma Antialiasing - Setting Antialiasing - Transparency Buffer-flipping mode CUDA - GPUS Enable overlay Exported pixel types	and create overrides for specific programs. The overrides will be used aut ttings: Setting Off Application-controlled Off Off Application-controlled Off Application-controlled Off Application-controlled Off Coff Coff Application-controlled Off Coff Color indexed overlays (8 bpp)	Restore Defaults comatically each time the specified programs are
	secting of a reactive dating the dropatown isco		
	Typical usage scenarios:		
	Default 3D settings for your applications		
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			Analy Council

8. Scroll down and locate the "Power Management Mode" feature. The default setting is "Adaptive" as shown in the picture below.



9. For the "Power management mode" feature, select "Prefer maximum performance" as shown in the picture below.



10. Depress the "Apply" button.

Make the following setting for "Multi-display/mixed-GPU acceleration"

- 11. Stay in the "Manage 3D Settings" and "Base Profile" area
- 12. Select "Global Settings" Tab
- 13. Scroll down and locate the "Multi-display/mixed-GPU acceleration" feature. See picture below. The setting should be set to "Multiple display performance mode". If not set properly, select Multiple display performance mode and depress the "Apply" button. (The other settings are "Single display performance mode" and "Compatibility performance mode". These settings are not recommended for Avid editing environments).

NVIDIA Control Panel		<u></u>	IX
File Edit View Help			
🕞 Back - 🕥 🏠 🛄 Advance	d Settings 👻		
Select a Task	Manago 3D Sotting		
3D Settings	Manage SD Setting:	S Restore Defaults	
Adjust image settings with preview Manage 3D settings - Set PhysX configuration - Obsplay - Change resolution - Adjust desktop size and position - Rotate display - View HDCP status - Set up multiple displays - Video - Adjust video color settings - Adjust video image settings - Adjust video image settings	You can change the global 3D settings and time the specified programs are launched. I would like to use the following 3D settings Global Settings Program Settings Global presets: Base profile Settings: Feature Extension limit Maximuze texture memory Maximum pre-rendered frames Multi-display/mixed-GPU acceleration Power management mode Stereo - Display mode Stereo - Display mode Stereo - Swap eyes Threaded optimization Triple buffering Vertical sync Description: This listbox contains all of the features you can are setting of a feature using the dropdown listbox bis Typical usage scenarios: • Default 3D settings for your applications	create overrides for specific programs. The overrides will be used automatically eac set Setting Restore Setting Off Off Off Off Off Off Off Off	h
System Information			_

Make the following additional setting for "3D App-Video Editing"

- 14. Stay in the "Manage 3D Settings" area
- 15. Select "Global Settings" Tab
- 16. Under "Global Settings" tab select "3D App-Video Editing" setting as shown in picture below:



- 17. Depress the "Apply" button
- 18. Nvidia driver optimization settings for Avid environments are complete.

E.) Nvidia Quadro GPU monitor connectivity:

The Nvidia Quadro 4000 graphics card has a single DVI port and two Display-Port ports

(Important: Display-ports are not HDMI ports; at first glance they do look very similar to HDMI ports)

(Please Note: Only two of the three video ports can simultaneously be used. Connecting to all three video ports at the same time will result in non-functioning video output from the Nvidia GPU video card.)

The HP Z820 includes one Display-Port-to-DVI adapter. HP P/N 481409-002

For dual monitor connectivity:

- 1. Use the DVI port and one Display-Port (Display-Port connection can be native display-port to monitor via display-port connection, or use the display-port-to-DVI-adapter supplied with the system to connect to a native DVI monitor).
- 2. Or use two Display-Ports (Requires monitors with native display-port connections, two display-port to DVI adapters are not recommended when using dual display-port connections).



F.) Serial Port Deck Control:

Serial Port Deck Control:

The HP Z820 workstation does have an embedded serial port. The embedded serial-port has been qualified by Avid and will maintain frame accuracy in Avid environments. Primary or secondary / additional serial port deck control can be established via two methods (both of which have been qualified by Avid and will maintain frame accuracy in Avid environments)

- Addenda model RS-USB / 4 direct USB-to-RS422 serial adapter. This is a simple device which connects directly from a USB port of the Z820 directly to the RS422 port of a deck. <u>http://www.addenda.com/addenda-elect/products/rsUSB4.php</u>
- 2. Combination of a Keyspan (Tripp-Lite) Model USA-19HS USB-to-serial-port adapter with Addenda Rosetta Stone model RS 2/8 RS232-to-RS422 converter
 - Keyspan (Tripp-Lite) Model USA-19HS (AVID P/N 7080-20013-01) http://www.tripplite.com/en/products/model.cfm?txtSeriesID=518&EID=13384&txtModelID=3914
 - Addenda Rosetta Stone (or equivalent) model RS 2/8 RS232-to-RS422 converter (AVID P/N 7070-00507-01)

http://www.addenda.com/addenda-elect/products/rs28.php

To connect the Keyspan 19HS / Addenda RS -2/8 combination:

- Install the Keyspan 19HS driver before plugging the device into a Z820 USB port.
- Once the Keyspan 19HS driver is installed then plug the Keyspan 19HS into a Z820 USB port.
- The Keyspan 19HS will now show up in device driver.
- Using a serial cable, connect the 9-pin serial port of the Keyspan 19HS USB adapter to the port of the Addenda marked RS232 from PC
- Using a 2nd serial port cable connect the port of the Addenda marked "RS422 to VTR" to the deck control serial port of the deck.

G.) O.S. setting recommendations for optimum performance with Avid Editing applications:

The following links provide O.S. setting suggestions for ensuring optimum performance when working with your Avid editing application with a Windows operating system.

- Optimizations for Video Editors - Windows 7

http://avid.custkb.com/avid/app/selfservice/search.jsp?DocId=390339

H.) Supported external local SAS storage connectivity via embedded SAS controller ports:

Supported

- AVID VideoRAID SR (16-bay)
- Xtore StudioRAID 16Re (16-bay) / 5Te (5-bay) chassis

The Z820 can support:

- a. Up to two external AVID VideoRAID SR (16-bay) SAS local storage chassis
- b. Mix and match of up to two external Xtore StudioRAID 16Re (16-bay) / 5Te (5-bay) chassis

Simultaneous connectivity of AVID VideoRAID and Xtore chassis is not formally qualified or recommended.



External SAS Port 2

External SAS Port 1

I.) Set Windows "Visual Effects" for "best performance":

- 1. Right-Click on My Computer / Computer
- 2. Select Properties
- 3. The screen below will be displayed:

~	7.7.37		
Control Pa + S	ystem and Secur > System	•	✓→ [Search Con ♀]
File Edit View Tools Help			
Control Panel Home	View basic information	about your computer	0
🚱 Device Manager	Windows edition		
🛞 Remote settings	Windows 7 Professional		\frown
🚱 System protection	Copyright © 2009 Microso	ft Corporation. All rights reserved.	
Advanced system settings	Get more features with a n	ew edition of Windows 7	
	System		
	Manufacturer:	Hewlett-Packard Company	
	Model:	HP Z800 Workstation	8
	Rating:	5.9 Windows Experience Index	
	Processor:	Intel(R) Xeon(R) CPU X5650 @ 2.67GHz 2.66 GHz (2 processors)	
	Installed memory (RAM):	6.00 GB	invent
	System type:	64-bit Operating System	
	Pen and Touch:	No Pen or Touch Input is available for this Display	
	Hewlett-Packard Company su	oport	
	Website:	Online support	
	Computer name, domain, and	workgroup settings	
	Computer name:	Z800-6core-Win7	🛞 Change settings
	Full computer name:	Z800-6core-Win7	
	Computer description:		
	Workgroup:	WORKGROUP	
See also	Windows activation		
Action Center	Windows is activated		ask for .
Windows Update	Product ID: 00371-OEM-8992671-00008		genuine 🔨
Performance Information and Tools			software Learn more online

4. On the left side of the screen above, locate and select "Advanced system settings"

5. The System properties window will be displayed. (Picture below).



- 6. Under the "Advanced" tab depress the "Settings..." button for performance.
- 7. The "performance Options" window will be displayed. (Picture below).



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8. Under the "Visual Effects" tab select the "Adjust for best performance" selection. (Picture below).



- 9. Depress the "Apply" button
- 10. Reboot Windows
- 11. Required Windows visual performance settings for Avid environments are now complete.

J.) Intel NIC Port(s) for ISIS connectivity:

Embedded 82574L port / Intel PRO 1000 Dual Gb HBA / Intel i350-T2 Dual Gb NIC HBA

For proper operation and connectivity of any Intel NIC port used with ISIS the settings below are required. Example below is for the Intel PRO 1000 PT.

- 1. For the performance settings, change the following parameters:
 - Receive Buffers to 1024
 - Transmit Buffers to 1024
- 2. Disable the windows firewall.

To set the Intel NIC Receive / Transmit buffers:

Go to device manager and select each instance of the network adapter device which will be used for ISIS connectivity.



Select performance options and then select Properties.

General Link Speed Advanced Power Management Advanced Adapter Settings Settings: Large Send Offload v2 (IPv4) Large Send Offload v2 (IPv4) Localy Administered Address Log Link State Event Performance Options Properties	General Link	Speed nced Adap	Advani ter Setting	ced	Power N	fanagement
Advanced Adapter Settings Settings: Large Send Offload v2 (IPv4) Locally Administered Address Log Link State Event Performance Options Priority & VLAN Receive Side Scaling TCP/IP Offloading Options Performance Options Configures the adapter to use settings that can improve adapter performance.	(intel) Adva	nced Adap	ter Setting			
Large Send Offload v2 (IPv6) Large Send Offload v2 (IPv6) Locally Administered Address Log Link State Event Performance Options Priority & VLAN Receive Side Scaling TCP/IP Offloading Options Performance Options Configures the adapter to use settings that can improve adapter performance.	Settings:					
Locally Administered Address Log Link State Event Performance Options Prority & VLAN Receive Side Scaling TCP/IP Offloading Options	Large Send Offload v	2 (IPv4) 2 (IPv6)		▲ _	Proper	rties
Log Link State Event Performance Options Priority & VLAN Receive Side Scaling TCP/IP Offloading Options Performance Options Configures the adapter to use settings that can improve adapter performance.	Locally Administered	Address		-		
Priority & VLAN Receive Side Scaling TCP/IP Offloading Options Performance Options Configures the adapter to use settings that can improve adapter performance.	Performance Options	-				
Receive Side Scaling TCP/IP Offloading Options Performance Options Configures the adapter to use settings that can improve adapter performance.	Priority & VLAN					
Performance Options Configures the adapter to use settings that can improve adapter performance.	Receive Side Scaling			-1		
Performance Options Configures the adapter to use settings that can improve adapter performance.	TCP/IP Orfloading Of	cions				
Configures the adapter to use settings that can improve adapter performance.	Performance Option:	5				
	Configures the ada performance,	pter to use	settings ti	hat can ii	nprove ad	apter 🛋

Set Receive Buffers to 1024

Set Transmit Buffers to 1024

Performance Options	X	Performance Options	×
Settings:	Value:	Settings:	Value:
Adaptive Inter-Frame Spacing Flow Control Interrupt Moderation Rate Receive Buffers Transmit Buffers	1024	Adaptive Inter-Frame Spacing Flow Control Interrupt Moderation Rate Receive Buffers Transmit Buffers	1024
	Use Default		Use Default
Receive Buffers		Transmit Buffers	
Sets the number of Receive Buffer copying data to memory. Increasing receive performance, but also con- You might choose to increase the r you notice a significant decrease in traffic. If receive performance is no setting.	s used by the adapter when g this value can enhance sumes system memory. humber of Receive Buffers if h the performance of received of an issue, use the default	Sets the number of Transmit Buffer copying data to memory. Increasing transmission performance, but also You might choose to increase the n you notice a significant decrease in traffic. If transmission performance setting.	s used by the adapter when this value can enhance o consumes system memory. number of Transmit Buffers if the performance of transmitted is not an issue, use the default
	OK Cancel		OK Cancel

Perform this for each instance of and Intel NIC port which will be used for ISIS connectivity.

K.) Disable the windows firewall:

Navigate to Control Panel / Windows Firewall -- Select Turn Windows Firewall on or off



Select Turn off windows firewall in both network locations, OK to save

🎡 Customize Settings	
🌀 🕞 🗢 👾 Windows Firewall 🗸 Customize Settings 🛛 👻 🛃	Search Control Panel
Customize settings for each type of network You can modify the firewall settings for each type of network location tha	t you use.
What are network locations?	
Home or work (private) network location settings	
V Turn on Windows Firewall	
\square Block all incoming connections, including those in the list	of allowed programs
📝 Notify me when Windows Firewall blocks a new program	
Turn off Windows Firewall (not recommended)	
Public network location settings	
👩 🔿 Turn on Windows Firewall	
Block all incoming connections, including those in the list	of allowed programs
🗹 Notify me when Windows Firewall blocks a new program	
Turn off Windows Firewall (not recommended)	
	OK Cancel

Revision Update

Revision	Date	Name	Update
Initial Release	Sept 18 th , 2012	Joe Conforti	Initial release of the Z820 configuration guide for support of Media Composer 6.x, Symphony 6.x and NewsCutter 10.x