# Dell<sup>TM</sup> High Availability Clusters Configuration Support Matrix

PowerEdge<sup>TM</sup> Cluster with Dell EqualLogic PS Series iSCSI Storage Array running Microsoft<sup>®</sup> Windows<sup>®</sup> Failover Cluster



# PowerEdge Cluster with Dell EqualLogic PS Series Arrays Release Date: May, 2012



The storage and server components that are listed on this matrix have been tested and validated by Dell High-Availability Solutions Engineering for use in Windows Server Failover Clusters. Building a cluster using components from this list – and ensuring that the firmware and driver versions conform to those that are listed – ensures that the resulting cluster has been fully qualified by Dell and our partners.

Storage Components		
	Storage System:	
	Storage Systems	PS4000E/X/XV, PS5000 E/X/XV, PS5500 E, PS6000 E/X/S/XV/XVS, PS6500 E/X, PS6010 E/X/S/XV/XVS, PS6510 E/X, PS4100 E/X/XV, PS6100 E/X/S/XS/XV, PS4110 E/X/XV, and PS6110 E/X/S/XS/XV
	Firmware version	5.1.0 or later
Server Components		
p to 16 homogeneous nodes	Dell Servers:	
	Supported servers (Rack):	PowerEdge PE2970, R510, R610, R710, R715, R810, R815, R910, R620, R720, R720xd, and R820
	Supported servers (Blade):	PowerEdge M610, M610x, M710, M710HD, M910, M915, and M620
	Supported servers (Tower):	PowerEdge T610, and T710
	Operating Systems:	
	Microsoft Windows Server 2008, Enterprise >	64 Edition with Service Pack 2
	Microsoft Windows Server 2008, R2 Enterpri	se x64 Edition with Service Pack 1
	Host Integration Tools Kit (HIT):	
	HIT	4.0 or later
CSI Components		
	iSCSI Initiator:	
	Microsoft iSCSI Software Initiator	RTM or later
	iSNS:	
	Microsoft iSNS Server	3.0
SCSI Interconnects		
	NICs (dedicated for iSCSI):	
	Any Gigabit or 10Gb on-board or add-on Eth	ernet Adapters (NICs) supported by the server and storage systems
	Switches (dedicated for iSCSI):	
	Any Gigabit and 10Gb Ethernet switch and Eth	ernet switch modules supported by EqualLogic. Please refer to EqualLogic support matrix for more details.

For detalied information, please refer to the online documentation of PowerEdge Cluster with Dell EqualLogic PS Series Arrays

# PowerEdge Cluster with Dell EqualLogic PS Series Arrays Release Date: February, 2012



The storage and server components that are listed on this matrix have been tested and validated by Dell High-Availability Solutions Engineering for use in Windows Server Failover Clusters. Building a cluster using components from this list – and ensuring that the firmware and driver versions conform to those that are listed – ensures that the resulting cluster has been fully qualified by Dell and our partners.

orage System:					
Storage Systems PS4000E/X/XV, PS5000 E/X/XV, PS5500 E, PS6000 E/X/S/XV/XVS, PS6500 E/X, PS6010 E/X/S/S/XV/XVS, PS6500 E/X, PS6010 E/X/S/S/XV/XVS, PS6100 E/X/S/XS/XV, PS6100 E/X/S/XS/XV, PS6110 E/X/S/S/XV/XVS, PS6110 E/X/S/S/XV/XVS, PS6110 E/X/S/S/XV/XVS, PS6500 E/X, PS6010 E/X/S/XV/XVS, PS6500					
mware version	5.1.0 or later				
ell Servers:					
upported servers (Rack):	PowerEdge PE2970, R510, R610, R710, R715, R810, R815, R910, R620, R720, and R720xd				
upported servers (Blade):	PowerEdge M610, M610x, M710, M710HD, M910, M915, and M620				
upported servers (Tower):	PowerEdge T610, and T710				
perating Systems:					
Aicrosoft Windows Server 2008, Enterprise x6	Edition with Service Pack 2				
Aicrosoft Windows Server 2008, R2 Enterprise	x64 Edition with Service Pack 1				
st Integration Tools Kit (HIT):					
Γ	4.0 or later				
CSI Initiator:					
licrosoft iSCSI Software Initiator	RTM or later				
NS:					
licrosoft iSNS Server	3.0				
Cs (dedicated for iSCSI):					
any Gigabit or 10Gb on-board or add-on Ethe	net Adapters (NICs) supported by the server and storage systems				
vitches (dedicated for iSCSI):					
·	not switch modules supported by Equal original page. Please refer to Equal original original property matrix for more details				
	apported servers (Rack): apported servers (Blade): apported servers (Tower): berating Systems: dicrosoft Windows Server 2008, Enterprise x64 dicrosoft Windows Server 2008, R2 Enterprise x st Integration Tools Kit (HIT):  CSI Initiator: icrosoft iSCSI Software Initiator VS: icrosoft iSNS Server  Cs (dedicated for iSCSI): any Gigabit or 10Gb on-board or add-on Ethern vitches (dedicated for iSCSI):	mware version 5.10 or later    Servers   Servers   Servers   Servers   PowerEdge PE2970, R510, R610, R710, R715, R810, R815, R910, R620, R720, and R720xd     Apported servers   PowerEdge M610, M610x, M710, M710HD, M910, M915, and M620     Apported servers   PowerEdge T610, and T710     PowerEdge T610, R610, R710, R710, R715, R810, R815, R910, R620, R720, and R720xd     PowerEdge T610, and T710     PowerEdge T610, R610, R710, R710, R715, R810, R815, R910, R620, R720, and R720xd     PowerEdge T610, R610, R710, R710, R710, R710, R710, R710, R910,			

For detalied information, please refer to the online documentation of PowerEdge Cluster with Dell EqualLogic PS Series Arrays

## PowerEdge Cluster with Dell EqualLogic PS Series Arrays Release Date: August, 2011



torage Components	Storage System:				
	Storage Systems	PS4000E/X/XV, PS5000 E/X/XV, PS5500 E, PS6000 E/X/S/XV/XVS, PS6500 E/X, PS6010 E/X/S/XV/XV PS6100 E/X/S/XV	/S, PS6510 E/X, PS4100 E/X/XV,		
	Firmware version	5.1.0 or later			
erver Components					
to 8 homogeneous nodes	Dell Servers:				
Windows Server 2003 and to 16 homogeneous nodes	Supported servers (Rack):	PowerEdge PE1950III, PE2950III, PE2970, R805, R900, R905, R610, R710, R715t, R810t, R815t, R910	t, and R510t		
Windows Server 2008 x64bit	Supported servers (Blade):	PowerEdge M600, M605, M805, M905, M610, M710, M910t, M610xt, M710HDt, and M915t			
l Windows Server 2008 R2	Supported servers (Tower):	PowerEdge PE2900III, T610, and T710			
bit	t: These PowerEdge Servers are only supported in Windows S	Server 2008 SP2 and R2 SP1 x64 editions			
	Operating Systems:				
	Microsoft Windows Server 2003 Enterprise Edition, SP2 (x86				
	Microsoft Windows Server 2003, R2 Enterprise Edition SP2 (				
	Microsoft Windows Server 2008, Enterprise x64 Edition with	s Service Pack 2			
	Microsoft Windows Server 2008, R2 Enterprise x64 Edition with Service Pack 1				
	tt: The following Windows Server 2003 Hotfix is also red	quired: KB943545			
CSI Components	Host Integration Tools Kit (HIT):				
	HIT	3.5.1 or later			
	iSCSI Initiator:				
	Microsoft iSCSI Software Initiator	2.08 or later			
	iSNS:				
	Microsoft iSNS Server	3.0 or later			
CSI Interconnects					
	NICs (dedicated for iSCSI):		NIC Driver version		
		Intel PRO1000PT Single and Dual Port 1GbE NICs	12.5.2_A00 or later		
		Intel 10 Gigabit AT Server Single Port NIC	12.5.2_A00 or later		
		Intel 10 Gigabit XF SR Server Adapter - Single Port	12.5.2_A00 or late		
		Intel 10 Gigabit AF Direct Attach Server - Dual Port	12.5.2_A00 or late		
	All supported non-blade servers	Broadcom 5708 or 5709 Single Port 1GbE NIC	16.2.0_A01 or later		
		Broadcom 5709 Quad Port 1GbE NIC	16.2.0_A01 or later		
		Broadcom 57710 Single Port 10GbE NIC	16.2.0_A01 or later		
		<u> </u>			
	MCOO MCOE MOOS 11400S	Broadcom 57711 Dual Port 10GbE NIC	16.2.0_A01 or later		
	M600, M605, M805, and M905	Broadcom 5708 1GbE NIC	16.2.0_A01 or later		
		Broadcom 5709 1GbE NIC	16.2.0_A01 or late		
	M805, M905, M610, M710, M910, M610x, M710HD, and M915	Broadcom 5/110 10GbE Ethernet NIC	16.2.0_A01 or later		
	Switches (dedicated for iSCSI):				

# PowerEdge Cluster with Dell EqualLogic PS Series Arrays Release Date: April, 2011



artners.						
Storage Components						
	Storage System:					
	Storage Systems	PS4000E/X/XV, PS5000 E/X/XV, PS5500 E, PS6000 S/E/X/XV/XVS, PS6500 E/X, PS6010 E/X/S/XV/XVS, and PS6510 E				
	Firmware version	5.0.0 or later				
erver Components						
to 8 homogeneous nodes	Dell Servers:					
r Windows Server 2003 and up 16 homogeneous nodes for	Supported servers (Rack):	PowerEdge PE1950III, PE2	2950III, PE2970, R805, R900, R905, R610, R710, R715†, R810†, R81	5t, R910t, and R510t		
indows Server 2008 x64bit	Supported servers (Blade):	PowerEdge M600, M605, M805, M905, M610, M710, M910†, M610xt, and M710HD†				
d Windows Server 2008 R2	Supported servers (Tower):	PowerEdge PE2900III, T6				
4bit	t: These PowerEdge Servers are only supported in Window	vs Server 2008 SP2 and R2	SP1 x64 editions			
	Operating Systems:					
	Microsoft Windows Server 2003 Enterprise Edition, SP2					
	Microsoft Windows Server 2003, R2 Enterprise Edition SF					
	Microsoft Windows Server 2008, Enterprise x64 Edition v					
	Microsoft Windows Server 2008, R2 Enterprise x64 Edition with Service Pack 1					
	tt: The following Windows Server 2003 Hotfix is also	required: KB943545				
	Host Integration Tools Kit (HIT):					
	HIT	3.4				
SCSI Components						
	iSCSI Initiator:					
	Microsoft iSCSI Software Initiator	2.08				
	iSNS:	T.0				
CSI Interconnects	Microsoft iSNS Server	3.0				
CSI Interconnects	NICs (dedicated for iSCSI):			NIC Driver version		
	NICS (dedicated for ISCSI).	Intel DDO1000DT Cincle o	and Dural Dove 1ChT NICo			
		Intel PRO1000PT Single a		12.5.2_A00 or late		
		Intel 10 Gigabit AT Server	Single Port NIC	12.5.2_A00 or late		
		Intel 10 Gigabit XF SR Sen	ver Adapter - Single Port	12.5.2_A00 or late		
	All supported non-blade servers	Intel 10 Gigabit AF Direct	Attach Server - Dual Port	12.5.2_A00 or late		
	All supported non-blade servers	Broadcom 5708 or 5709 Single Port 1GbE NIC with TOE		16.2.0_A01 or late		
		Broadcom 5709 Quad Port 1GbE NIC with TOE		16.2.0_A01 or late		
				16.2.0 A01 or late		
		Broadcom 57710 Single Port 10GbE NIC with TOE Broadcom 57711 Dual Port 10GbE NIC with TOE		16.2.0_A01 or late		
	MC00 MC05 M005 4 M005	Broadcom 5708 1GbE NIC				
	M600, M605, M805, and M905	Broadcom 5709 1GbE NIC		16.2.0_A01 or late		
	M805, M905, M610, M710, M910, M610x, and M710HD M805, M905, M610, M710, M910, M610x, and M710HD	Broadcom 57110 10GbE B		16.2.0_A01 or late 16.2.0_A01 or late		
	Switches (dedicated for iSCSI):	broadcom 3/110 10GBE E	THE THE WILL TOE	10.2.U_AU1 or late		
	Any Gigabit and 10Gb Ethernet switch and Ethernet switch					

PowerEdge Cluster with Dell EqualLogic PS Series Arrays Release Date: October, 2010

	resulting cluster has been fully qualified by Dell and ou				
torage Components					
	Storage System:				
	Storage Systems	PS4000E/X/XV, PS5000 E/X/XV, PS5500 E, PS6000 S/E/X/XV/XVS, PS6500 E/X, PS601	0 E/X/S/XV/XVS, and PS6510 E/X		
	Firmware version	5.0.0 or later			
erver Components					
to 8 homogeneous nodes	Dell Servers:				
Windows Server 2003 and up 16 homogeneous nodes for	Supported servers (Rack):	PowerEdge PE1950III, PE2950III, PE2970, R805, R900, R905, R610, R710, R715†, R810†, R815†, R910†, and R510†			
indows Server 2008 x64bit and	Supported servers (Blade):	PowerEdge M600, M605, M805, M905, M610, M710, M910†, M610x†, and M710HD†			
indows Server 2008 R2 x64bit	Supported servers (Tower):	PowerEdge PE2900III, T610, and T710			
	†: These PowerEdge Servers are only supported in Window	s Server 2008 SP2 and R2 x64 editions			
	Operating Systems:				
	Microsoft Windows Server 2003 Enterprise Edition, SP2 (	/ · · ·			
	Microsoft Windows Server 2003, R2 Enterprise Edition SP2 (x86 and x64) ††				
	Microsoft Windows Server 2008, Enterprise x64 Edition with Service Pack 2				
	Microsoft Windows Server 2008, R2 Enterprise x64 Edition				
	††: The following Windows Server 2003 Hotfix is also	required: KB943545			
	Host Integration Tools Kit (HIT):				
	HIT	3.4			
CSI Components					
	iSCSI Initiator:				
	Microsoft iSCSI Software Initiator	2.08			
	iSNS:				
	Microsoft iSNS Server	3.0			
CSI Interconnects					
	NICs (dedicated for iSCSI):		NIC Driver version		
		Intel PRO1000PT Single and Dual Port 1GbE NICs	12.0_A01 or later		
		Intel 10 Gigabit AT Server Single Port NIC	12.0_A01 or later		
		Intel 10 Gigabit XF SR Server Adapter - Single Port	12.0 A01 or later		
		Intel 10 Gigabit AF Direct Attach Server - Dual Port	12.0 A01 or later		
	All supported non-blade servers		_		
		Broadcom 5708 or 5709 Single Port 1GbE NIC with TOE	14.2.0_A03 or later		
		Broadcom 5709 Quad Port 1GbE NIC with TOE	14.2.0_A03 or later		
		Broadcom 57710 Single Port 10GbE NIC with TOE	14.2.0_A03 or later		
		Broadcom 57711 Dual Port 10GbE NIC with TOE	14.2.0_A03 or later		
	M600, M605, M805, and M905	Broadcom 5708 1GbE NIC with TOE	14.2.0_A03 or later		
	M805, M905, M610, M710, M910, M610x, and M710HD	Broadcom 5709 1GbE NIC with TOE	14.2.0_A03 or later		
	M805, M905, M610, M710, M910, M610x, and M710HD	Broadcom 57110 10GbE Ethernet NIC with TOE	14.2.0_A03 or later		
	Switches (dedicated for iSCSI):				

PowerEdge Cluster with Dell EqualLogic PS Series Arrays Release Date: April, 2010

The storage and server components that are listed on this matrix have been tested and validated by Dell High-Availability Solutions Engineering for use in Windows

orago Componente						
torage Components						
	Storage System:	D04000E/V/W/ D05000 E/V/W/ D	DOCCOO E DOCCOO CIEININI DOCCOO EIN DOCCOO EINI	2007 and D00540 E07		
	Storage Systems	PS4000E/X/XV, PS5000 E/X/XV, P	2S5500 E, PS6000 S/E/X/XV, PS6500 E/X, PS6010 E/X/S	S/XV, and PS6510 E/X		
anicas Campananta	Firmware version		4.3.2 or later			
erver Components to 8 homogeneous nodes	Ball Control					
Windows Server 2003 and up	Dell Servers: Supported servers (Rack):	DowerEdge DE1050III DE2050III DE2070	, R805, R900, R905, R610, R710, R810†, R815†, and R	010+		
16 homogeneous nodes for	Supported servers (Rack): Supported servers (Blade):	PowerEdge M600, M605, M805, M905, M605, M6		9101		
ndows Server 2008 x64bit and	Supported servers (Tower):	PowerEdge PE2900III, T610, and T710	TO, MIT TO, AND MISTO			
ndows Server 2008 R2 x64bit	†: These PowerEdge Servers are only supported	, ,	litions			
	Operating Systems:					
	Microsoft Windows Server 2003 Enterprise E	dition SP2 (x86 and x64) ++				
	Microsoft Windows Server 2003, R2 Enterprise					
		rosoft Windows Server 2008, Enterprise x64 Edition with Service Pack 2				
	Microsoft Windows Server 2008, R2 Enterprise x64 Edition					
	††: The following Windows Server 2003 H					
	Host Integration Tools Kit (HIT):					
	HIT ( )	3.3.1				
SI Components						
	iSCSI Initiator:					
	Microsoft iSCSI Software Initiator	2.08				
	iSNS:					
	Microsoft iSNS Server	3.0				
SI Interconnects						
	NICs (dedicated for iSCSI):			NIC Driver ve		
		Intel PRO1000PT Single and Dual Port 1G	bE NICs	11.7_A00 or lat		
		Intel 10 Gigabit AT Server Single Port NIC		11.7 A00 or lat		
		Intel 10 Gigabit XF SR Server Adapter - Si		11.7 A00 or la		
		Intel 10 Gigabit AF Direct Attach Server - D		11.7 A00 or lat		
	All supported non-blade servers			_		
		Broadcom 5708 or 5709 Single Port 1GbE NIC with TOE		14.2.0_A01 or		
		Broadcom 5709 Quad Port 1GbE NIC with		14.2.0_A01 or		
		Broadcom 57710 Single Port 10GbE N		14.2.0_A01 or		
		Broadcom 57711 Dual Port 10GbE NIC wit	h TOE	14.2.0_A01 or		
	M600, M605, M805, and M905	Broadcom 5708 1GbE NIC with TOE		14.2.0_A01 or		
	M805, M905, M610, M710, and M910	Broadcom 5709 1GbE NIC with TOE		14.2.0_A01 or		
	M805, M905, M610, M710, and M910	Broadcom 57110 10GbE Ethernet NIC with	-	14.2.0 A01 or		

PowerEdge Cluster with Dell EqualLogic PS Series Arrays

Release Date: January, 2010

	Release Date: January, 2010				
		r using components from this list	on tested and validated by Dell High-Availability Solutions Engine – and ensuring that the firmware and driver versions conform to artners.	•	
Storage Components					
	Storage System:				
	Storage Systems	PS40	000E/X/XV, PS5000 E/X/XV, PS5500 E, PS6000 S/E/X/XV, PS6500 E/	X	
	Firmware version	4.3.2 or later			
Server Components					
Up to 8 homogeneous nodes	Dell Servers:				
for Windows Server 2003 and up	Supported servers (Rack):	PowerEdge PE1950III, PE2950	III, PE2970, R805, R900, R905, R610, and R710		
to 16 homogeneous nodes for	Supported servers (Blade):	PowerEdge M600, M605, M805	5, M905, M610, and M710		
Windows Server 2008 x64bit and Windows Server 2008 R2 x64bit	Supported servers (Tower):	PowerEdge PE2900III, T610, and T710			
Williams Server 2000 NZ X04Bit	Operating Systems:				
	Microsoft Windows Server 2003 Enterprise Edition, SP2 (x86 and x64)				
	Microsoft Windows Server 2003, R2 Enterprise Edition SP2 (x86 and x64)				
	Microsoft Windows Server 2008, Enterprise x64 Edition with Service Pack 2				
	Microsoft Windows Server 2008, R2 Enterpris	se x64 Edition			
	Host Integration Tools Kit (HIT):				
	HIT	3.3.1			
iSCSI Components					
	iSCSI Initiator:				
	Microsoft iSCSI Software Initiator	2.08			
	iSNS:				
	Microsoft iSNS Server	3.0			
iSCSI Interconnects					
	NICs (dedicated for iSCSI):			NIC Driver version	
		Intel PRO1000PT Single and D	ual Port 1GbE NICs (for Windows Server 2008, R2 x64 Edition)	11.6_A00 or later	
		Intel PRO1000PT Single and Dual Port 1GbE NICs 11.6 A00 or later			
	All supported non-blade servers	Broadcom 5708 Single Port 1G	bE NIC with TOE	14.1.5_A00 or later	
		Broadcom 5709 Single Port 1G	bE NIC with TOE	14.1.5 A00 or later	
	M600, M605, M805, and M905	Broadcom 5708 1GbE NIC with	TOE	14.1.5 A00 or later	
	M805, M905, M610, and M710	Broadcom 5709 1GbE NIC with	TOE	14.1.5_A00 or later	
	Switches (dedicated for iSCSI):				

Any Gigabit Ethernet switch and Gigabit Ethernet switch modules supported by EqualLogic. Please refer EqualLogic support matrix for more details.

For detalled information, please refer to the online documentation of PowerEdge Cluster with Dell EqualLogic PS Series Arrays

PowerEdge Cluster with Dell EqualLogic PS Series Arrays

Release Date: October, 2009

	The storage and server components that are listed on this matrix have been tested and validated by Dell High-Availability Solutions Engineering for use in Windows Server Failover Clusters. Building a cluster using components from this list – and ensuring that the firmware and driver versions conform to those that are listed – ensures that the resulting cluster has been fully qualified by Dell and our partners.				
Storage Components					
	Storage System:				
	Storage Systems	F	PS4000E/X/XV, PS5000 E/X/XV, PS5500 E, PS6000 S/E/X/XV, PS6500 E/X	(	
	Firmware version		4.2.0 or later		
Server Components					
Up to 8 homogeneous nodes	Dell Servers:				
for Windows Server 2003 and up	Supported servers (Rack):	PowerEdge PE1950III, PE2950III, PE2970, R805, R900, R905, R610, and R710			
to 16 homogeneous nodes for Windows Server 2008 x64bit and	Supported servers (Blade):	PowerEdge M600, M605, M	1805, M905, M610, and M710		
Windows Server 2008 R2 x64bit	Supported servers (Tower):	PowerEdge PE2900III, T61	0, and T710		
	Operating Systems:				
	Microsoft Windows Server 2003 Enterprise Edition, SP2 (x86 and x64)				
	Microsoft Windows Server 2003, R2 Enterpr	ise Edition SP2 (x86 and x6-	4)		
	Microsoft Windows Server 2008, Enterprise x64 Edition with Service Pack 2				
	Microsoft Windows Server 2008, R2 Enterpr	ise x64 Edition			
	Host Integration Tools Kit (HIT):				
	HIT	3.3			
iSCSI Components					
	iSCSI Initiator:				
	Microsoft iSCSI Software Initiator	2.08			
	isns:				
	Microsoft iSNS Server	3.0			
iSCSI Interconnects					
	NICs (dedicated for iSCSI):			NIC Driver version	
			nd Dual Port 1GbE NICs (for Windows Server 2008, R2 x64 Edition)	11.5_A04 or later	
	All supported non-blade servers	Intel PRO1000PT Single an	nd Dual Port 1GbE NICs	11.5_A03 or later	
	7 th dapported from blade derivers	Broadcom 5708 Single Port	t 1GbE NIC with TOE	14.1.1_A03 or later	
		Broadcom 5709 Single Port	t 1GbE NIC with TOE	14.1.1_A03 or later	
	MOOD MOOF MOOF MOOF MOOD	Broadcom 5708 1GbE NIC	with TOE	14.1.1_A03 or later	
	M600, M605, M805, M905, M610, and M710	Broadcom 5709 1GbE NIC	with TOE	14.1.1_A03 or later	
	Switches (dedicated for iSCSI):				
	Any Gigabit Ethernet switch and Gigabit Ether	net switch modules supporte	ed by EqualLogic. Please refer EqualLogic support matrix for more details.		
7 - 0					

PowerEdge Cluster with Dell EqualLogic PS Series Arrays Release Date: July, 2009

	firmware and driver versions conform to those that are listed – ensures that the resulting cluster has been fully qualified by Dell and our partners.				
torage Components	·				
	Storage System:				
	Storage Systems		PS5000 E/X/XV, PS5500 E ,PS6000 E/X/XV, PS60	00 S/E	
	Firmware version		4.1.3 or later		
erver Components					
o to 8 homogeneous nodes	Dell Servers:				
r Windows Server 2003 and up	Supported servers (Rack):	PowerEdge PE19	50III, PE2950III, PE2970, R805, R900, R905, R610, ar	nd R710	
16 homogeneous nodes for indows Server 2008 x64bit	Supported servers (Blade):	PowerEdge M600, M605, M805, M905, M610, and M710			
Williadws Gelvel 2000 X04bit	Supported servers (Tower):	PowerEdge PE29	00III, T610, and T710		
	Operating Systems:				
	Microsoft Windows Server 2003 Enterprise I	Edition, SP2 (x86 a	nd x64)		
	Microsoft Windows Server 2003 R2, Enterprise Edition SP2 (x86 and x64)				
	Microsoft Windows Server 2008, Enterprise	x64 Edition with Se	rvice Pack 2		
	Host Integration Tools Kit (HIT):				
	HIT	3.2			
CSI Components					
	iSCSI Initiator:				
	Microsoft iSCSI Software Initiator	2.08			
	iSNS:				
	Microsoft iSNS Server	3.0			
CSI Interconnects					
	NICs (dedicated for iSCSI):			NIC Driver versi	
		Bro	padcom 5708 Single Port 1GbE NIC with TOE	12.8.0_A01 or lat	
	All supported non-blade servers	Bro	padcom 5709 Single Port 1GbE NIC with TOE	12.8.0_A01 or lat	
		Intel	PRO1000PT Single and Dual Port 1GbE NICs	11.0_A00 or late	
	MOOG MOOF MOOF MOOF MOOF MOOF		Broadcom 5708 1GbE NIC with TOE	12.8.0_A01 or late	
	M600, M605, M805, M905, M610, and M710		Broadcom 5709 1GbE NIC with TOE	12.8.0_A01 or late	
	Switches (dedicated for iSCSI):	•			

PowerEdge Cluster with Dell EqualLogic PS Series Arrays
Release Date: April, 2009

The storage and server components that are listed on this matrix have been tested and validated by Dell High-Availability Solutions Engineering for use in Windows Server Failover Clusters. Building a cluster using components from this list – and ensuring that the firmware and driver versions conform to those that are listed – ensures that the resulting cluster has been fully qualified by Dell and our partners.

Storage	Components
---------	------------

Storage System:	
Storage Systems	PS5000E/PS5000X/PS5000XV/PS5500E/PS6000E/PS6000X/PS6000XV/PS6000S/PS6500E
Firmware version	4.1.3 or later

#### **Server Components**

Up to 8 homogeneous nodes for Windows Server 2003 and up to 16 homogeneous nodes for Windows Server 2008 x64bit

#### **Dell Servers:**

Supported servers Dell PowerEdge PE1950III, PE2900III, PE2950III, PE2970, R805, R900, R905, R610, R710, M600, M605, M805, M905, M610, and M710

#### **Operating Systems:**

Microsoft Windows Server 2003 Enterprise Edition, SP2 (x86 and x64) Microsoft Windows Server 2003 R2, Enterprise Edition SP2 (x86 and x64)

Microsoft Windows Server 2008, Enterprise x64 Edition

#### iSCSI Components

iSCSI Interconnects

#### Host Integration Tools Kit (HIT):

HIT 3.2

#### iSCSI Initiator:

Microsoft iSCSI Software Initiator 2.08 iSNS:

## Microsoft iSNS Server 3.0

# NICs (dedicated for iSCSI): Broadcom 5708 Single Port 1GbE NIC with TOE All supported non-blade servers Broadcom 5709 Single Port 1GbE NIC with TOE Intel PRO1000PT Single and Dual Port 1GbE NICs

	man vio voor v omgro and a dan v or voor	11.0_7 100 01 10101
M600, M605, M805, M905, M610, and M710	Broadcom 5708 1GbE NIC with TOE	11.0_A00 or later
MOOO, MOOS, MOOS, M9OS, MOTO, AND MT	Broadcom 5709 1GbE NIC with TOE	12.6.0_A03 or later

**NIC Driver version** 

12.6.0 A03 or later

12.6.0 A03 or later

11.0 A00 or later

#### Switches (dedicated for iSCSI):

Any Gigabit Ethernet switch and Gigabit Ethernet switch modules supported by EqualLogic. Please refer EqualLogic support matrix for more details.

PowerEdge Cluster with Dell EqualLogic PS Series Arrays Release Date: January, 2009

torage Components						
	Storage System:					
	Storage Systems	PS5000E/PS5000X/PS5000XV/PS5500E				
	Firmware version	4.1				
erver Components						
p to 8 homogeneous nodes	Dell Servers:					
for Windows Server 2003 and up to 16 homogeneous nodes for Windows Server 2008 x64bit	Supported servers	Dell PowerEdge PE1950III, PE2900III, PE2950III, PE2970, R805, R900, R905, M600, M605, M805, and M905				
	Operating Systems:					
	Microsoft Windows Server 2003 Enterprise Edition, SP2 (x86 and x64) Microsoft Windows Server 2003 R2, Enterprise Edition SP2 (x86 and x64)					
	Microsoft Windows Server 2008, Enterprise x64 Edition					
	Host Integration Tools Kit (HIT):					
	HIT	3.1.1				
iSCSI Components	iSCSI Initiator:					
	Microsoft iSCSI Software Initiator	2.07				
	iSNS:					
	Microsoft iSNS Server	3.0				
CSI Interconnects	NICs (dedicated for iSCSI):			NIC Driver version		
		Broadcom 5708 Single Port 1GbE NIC with TOE		10.51.01 or later		
	All supported non-blade servers	Broadcom 5709 Single Port 1GbE NIC with TOE		4.4.0 or later		
		Intel PRO1000PT Single and Dual Port 1GbE NICs		10.0 or later		
	M600, M605, M805, and M905	Broadcom 5708 1GbE NIC with TOE 10.51.01		10.51.01 or later		
	MOUU, MOUS, MOUS, AND MISUS	Broadcom 5709 1GbE NIC with TOE		4.4.0 or later		
	Switches (dedicated for iSCSI):					

PowerEdge Cluster with Dell EqualLogic PS Series Arrays

Release Date: September, 2008

	our partners.						
Storage Components							
	Storage System:						
	Storage Systems	PS5000E/PS5000X/PS5000XV/PS5500E					
	Firmware version	4.0					
Server Components							
Jp to 8 homogeneous nodes	Dell Servers:						
for Windows Server 2003 and up to 16 homogeneous nodes for Windows Server 2008 x64bit	Supported servers	Dell PowerEdge PE1950III, PE2900III, PE2950III, PE2970, R805, R900, R905, M600, M605, M805, and M905					
	Operating Systems:						
	Microsoft Windows Server 2003 Enterprise Edition, SP2 (x86 and x64) Microsoft Windows Server 2003 R2, Enterprise Edition SP2 (x86 and x64)						
	Microsoft Windows Server 2008, Enterprise x64 Edition						
	Host Integration Tools Kit (HIT):						
	HIT	3.1.1					
iSCSI Components	iSCSI Initiator:						
	Microsoft iSCSI Software Initiator	2.07					
	iSNS:						
	Microsoft iSNS Server	3.0					
iSCSI Interconnects	NICs (dedicated for iSCSI):	•		NIC Driver version			
	All supported non-blade servers	Broadcom 5708 Single Port 1GbE NIC with TOE 10.51.01 or la					
		Broadcom 5709 Single Port 1GbE NIC with TOE		4.4.0 or later			
		Intel PRO1000PT Single and Dual Port 1GbE NICs		10.0 or later			
	M600, M605, M805, and M905			10.51.01 or later			
	Wood, Wood, Wood, and Wood	Broadcom 5709 1GbE NIC with TOE		4.4.0 or later			
	Switches (dedicated for iSCSI):						
	Any Gigabit Ethernet switch and Gigabit Ether	net switch modules s	upported by EqualLogic. Please refer EqualLogic su	pport matrix for more details			