

Dell™ High Availability Clusters Configuration Support Matrix

PowerEdge™ Cluster with PowerVault™ MD3600i/MD3620i iSCSI
Storage Array running Microsoft® Windows® Failover Cluster



Dell Cluster Configuration Support Matrix

PowerEdge Cluster with PowerVault MD3600i/MD3620i Array

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:

Up to 4 storage systems per cluster

Dell Storage System:

Dell PowerVault:	MD3600i/MD3620i	MD1200/MD1220
Enclosure Firmware:	07.80.41.60	1.01
NVRAM Revision	N26X0-780890-901	

Server Components:

up to 16 homogeneous nodes

Dell Servers:

Supported servers (Rack):	PowerEdge R610, R710, R810, R815, R715, R910, R510, 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 System, Service Pack, and Hotfixes:

Microsoft Windows Server 2008, Enterprise x64 Edition with Service Pack 2†	Supported on any server listed above.
Microsoft Windows Server 2008, R2 Enterprise x64 Edition with Service Pack 1	Supported on any server listed above.
†: The following Windows Server 2008, Enterprise x64bit SP2 edition Hotfix is also required: KB970525	

PowerVault Modular Disk Storage Manager Software:

Dell MDSM version	10.80.G6.47
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iSCSI components:

iSCSI initiator:

Microsoft iSCSI initiator software	RTM or later
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iSNS:

Microsoft iSNS Server	3.0
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iSCSI interconnects:

Network Adapter (dedicated for iSCSI):

Any Gigabit or 10Gb on-board or add-on Ethernet Adapters (NICs) supported by the server and storage systems

Ethernet Switches (dedicated for iSCSI)

Any Gigabit or 10Gb Ethernet switch, including Ethernet switch I/O modules supported in the Dell PowerEdge blade enclosures

[For detailed configuration information, please refer to the online documentation for the PowerEdge Cluster with PowerVault MD36XXi Array](#)

Dell Cluster Configuration Support Matrix

PowerEdge Cluster with PowerVault MD3600i/MD3620i Array

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.

Storage Components:

Up to 4 storage systems per cluster

Dell Storage System:

Dell PowerVault:	MD3600i/MD3620i	MD1200/MD1220
Enclosure Firmware:	07.80.41.60	1.01
NVRAM Revision	N26X0-780890-901	

Server Components:

up to 16 homogeneous nodes

Dell Servers:

Supported servers (Rack):	PowerEdge R610, R710, R810, R815, R715, R910, R510, R620, R720, and R720xd
Supported servers (Blade):	PowerEdge M610, M610x, M710, M710HD, M910, M915, and M620
Supported servers (Tower):	PowerEdge T610 and T710

Operating System, Service Pack, and Hotfixes:

Microsoft Windows Server 2008, Enterprise x64 Edition with Service Pack 2†	Supported on any server listed above.
Microsoft Windows Server 2008, R2 Enterprise x64 Edition with Service Pack 1	Supported on any server listed above.
†: The following Windows Server 2008, Enterprise x64bit SP2 edition Hotfix is also required: KB970525	

PowerVault Modular Disk Storage Manager Software:

Dell MDSM version	10.80.G6.47
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iSCSI components:

iSCSI initiator:

Microsoft iSCSI initiator software	RTM or later
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iSNS:

Microsoft iSNS Server	3.0
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iSCSI interconnects:

Network Adapter (dedicated for iSCSI):

Any Gigabit or 10Gb on-board or add-on Ethernet Adapters (NICs) supported by the server and storage systems

Ethernet Switches (dedicated for iSCSI)

Any Gigabit or 10Gb Ethernet switch, including Ethernet switch I/O modules supported in the Dell PowerEdge blade enclosures

[For detailed configuration information, please refer to the online documentation for the PowerEdge Cluster with PowerVault MD36XXi Array](#)

Dell Cluster Configuration Support Matrix

PowerEdge Cluster with PowerVault MD3600i/MD3620i Array

Release Date: October, 2011



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:

Up to 4 storage systems per cluster

Dell Storage System:

Dell PowerVault:	MD3600i/MD3620i	MD1200/MD1220
Enclosure Firmware:	07.80.41.60	1.01
NVRAM Revision	N26X0-780890-901	

Server Components:

up to 16 homogeneous nodes for Windows Server 2008 x64bit SP2 and Windows Server 2008 R2 x64bit

Dell Servers:

Supported servers (Rack):	PowerEdge R610, R710, R810, R815, R715, R910, and R510
Supported servers (Blade):	PowerEdge M610, M610x, M710, M710HD, M910, and M915
Supported servers (Tower):	PowerEdge T610 and T710

Operating System, Service Pack, and Hotfixes:

Microsoft Windows Server 2008, Enterprise x64 Edition with Service Pack 2†	Supported on any server listed above.
Microsoft Windows Server 2008, R2 Enterprise x64 Edition with Service Pack 1	Supported on any server listed above.

†: The following Windows Server 2008, Enterprise x64bit SP2 edition Hotfix is also required: KB970525

PowerVault Modular Disk Storage Manager Software:

Dell MDSM version	10.80.G6.47
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iSCSI components:

iSCSI initiator:

Microsoft iSCSI initiator software	2.08	
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iSNS:

Microsoft iSNS Server	3.0	
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iSCSI interconnects:

Network Adapter (dedicated for iSCSI):		NIC Driver version
All supported non-blade servers	Inter Pro/1000 PT 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
	Broadcom 5708 Single Port 1GbE NIC	16.2.0_A01 or later
	Broadcom 5709 Single Port 1GbE NIC	16.2.0_A01 or later
	Broadcom 57710 Single Port 10GbE NIC	16.2.0_A01 or later
M610, M710, M910, and M915	Broadcom 5709 1GbE NIC with TOE	16.2.0_A01 or later
M610, M610x, M710, M710HD, M910, and M915	Broadcom 57110 10GbE Ethernet NIC	16.2.0_A01 or later

Ethernet Switches (dedicated for iSCSI)

Any Gigabit Ethernet switch, including Gigabit Ethernet switch modules supported in the Dell PowerEdge blade enclosure

[For detailed configuration information, please refer to the online documentation for the PowerEdge Cluster with PowerVault MD36X0i Array](#)

Dell Cluster Configuration Support Matrix

PowerEdge Cluster with PowerVault MD3600i/MD3620i Array

Release Date: July, 2011



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:

Up to 4 storage systems per cluster

Server Components:

up to 16 homogeneous nodes for Windows Server 2008 x64bit SP2 and Windows Server 2008 R2 x64bit

iSCSI components:

iSCSI interconnects:

Dell Storage System:

Dell PowerVault:	MD3600i/MD3620i	MD1200/MD1220
Enclosure Firmware:	07.75.14.61	1.01
NVRAM Revision	N26X0-775890-909	

Dell Servers:

Supported servers (Rack):	PowerEdge R610, R710, R810, R815, R715, R910, and R510
Supported servers (Blade):	PowerEdge M610, M610x, M710, M710HD, M910, and M915
Supported servers (Tower):	PowerEdge T610 and T710

Operating System, Service Pack, and Hotfixes:

Microsoft Windows Server 2008, Enterprise x64 Edition with Service Pack 2†	Supported on any server listed above.
Microsoft Windows Server 2008, R2 Enterprise x64 Edition with Service Pack 1	Supported on any server listed above.

†: The following Windows Server 2008, Enterprise x64bit SP2 edition Hotfix is also required: KB970525

PowerVault Modular Disk Storage Manager Software:

Dell MDSM version	10.75.36.16
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iSCSI initiator:

Microsoft iSCSI initiator software	2.08
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iSNS:

Microsoft iSNS Server	3.0
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Network Adapter (dedicated for iSCSI):

		NIC Driver version
All supported non-blade servers	Inter Pro/1000 PT 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
	Broadcom 5708 Single Port 1GbE NIC	16.2.0_A01 or later
	Broadcom 5709 Single Port 1GbE NIC	16.2.0_A01 or later
	Broadcom 57710 Single Port 10GbE NIC	16.2.0_A01 or later
M610, M710, M910, and M915	Broadcom 5709 1GbE NIC with TOE	16.2.0_A01 or later
M610, M610x, M710, M710HD, M910, and M915	Broadcom 57110 10GbE Ethernet NIC	16.2.0_A01 or later

Ethernet Switches (dedicated for iSCSI)

Any Gigabit Ethernet switch, including Gigabit Ethernet switch modules supported in the Dell PowerEdge blade enclosure

[For detailed configuration information, please refer to the online documentation for the PowerEdge Cluster with PowerVault MD36X0i Array](#)

Dell Cluster Configuration Support Matrix

PowerEdge Cluster with PowerVault MD3600i/MD3620i Array

Release Date: April, 2011



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:

Up to 4 storage systems per cluster

Dell Storage System:

Dell PowerVault:	MD3600i/MD3620i	MD1200/MD1220
Enclosure Firmware:	07.75.14.61	A00
NVRAM Revision	N26X0-775890-909	

Server Components:

up to 16 homogeneous nodes for Windows Server 2008 x64bit SP2 and Windows Server 2008 R2 x64bit

Dell Servers:

Supported servers (Rack):	PowerEdge R610, R710, R810, R815, R715, R910, and R510
Supported servers (Blade):	PowerEdge M610, M610x, M710, M710HD, and M910
Supported servers (Tower):	PowerEdge T610 and T710

Operating System, Service Pack, and Hotfixes:

Microsoft Windows Server 2008, Enterprise x64 Edition with Service Pack 2†	Supported on any server listed above.
Microsoft Windows Server 2008, R2 Enterprise x64 Edition with Service Pack 1	Supported on any server listed above.

†: The following Windows Server 2008, Enterprise x64bit SP2 edition Hotfix is also required: KB970525

PowerVault Modular Disk Storage Manager Software:

Dell MDSM version	10.75.G6.12
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iSCSI components:

iSCSI initiator:

Microsoft iSCSI initiator software	2.08
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iSCSI interconnects:

Network Adapter (dedicated for iSCSI):		NIC Driver version
All supported non-blade servers	Inter Pro/1000 PT 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
	Broadcom 5708 Single Port 1GbE NIC with TOE	16.2.0_A01 or later
	Broadcom 5709 Single Port 1GbE NIC with TOE	16.2.0_A01 or later
	Broadcom 57710 Single Port 10GbE NIC with TOE	16.2.0_A01 or later
M610, M710, and M910	Broadcom 5709 1GbE NIC with TOE	16.2.0_A01 or later
M610, M610x, M710, M710HD, and M910	Broadcom 57110 10GbE Ethernet NIC with TOE	16.2.0_A01 or later

Ethernet Switches (dedicated for iSCSI)

Any Gigabit Ethernet switch, including Gigabit Ethernet switch modules supported in the Dell PowerEdge blade enclosure

[For detailed configuration information, please refer to the online documentation for the PowerEdge Cluster with PowerVault MD36XXi Array](#)

Dell Cluster Configuration Support Matrix

PowerEdge Cluster with PowerVault MD3600i/MD3620i Array

Release Date: March, 2011



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.

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Dell Storage System:

Dell PowerVault:	MD3600i/MD3620i	MD1200/MD1220
Enclosure Firmware:	07.75.14.60	A00
NVRAM Revision	N26X0-775890-909	

Server Components:

up to 16 homogeneous nodes for Windows Server 2008 x64bit SP2 and Windows Server 2008 R2 x64bit

Dell Servers:

Supported servers (Rack):	PowerEdge R610, R710, R810, R815, R715, R910, and R510
Supported servers (Blade):	PowerEdge M610, M610x, M710, M710HD, and M910
Supported servers (Tower):	PowerEdgeT610 and T710

Operating System, Service Pack, and Hotfixes:

Microsoft Windows Server 2008, Enterprise x64 Edition with Service Pack 2†	Supported on any server listed above.
Microsoft Windows Server 2008, R2 Enterprise x64 Edition	Supported on any server listed above.

†: The following Windows Server 2008, Enterprise x64bit SP2 edition Hotfix is also required: KB970525

PowerVault Modular Disk Storage Manager Software:

Dell MDSM version	10.75.G6.12
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iSCSI components:

iSCSI initiator:

Microsoft iSCSI initiator software	2.08
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iSCSI interconnects:

Network Adapter (dedicated for iSCSI):

		NIC Driver version
All supported non-blade servers	Inter Pro/1000 PT Single and Dual Port 1GbE NICs	12.0_A01 or later
	Intel 10 Gigabit AT Server Single Port NIC	12.0_A01 or later
	Broadcom 5708 Single Port 1GbE NIC with TOE	14.2.0_A03 or later
	Broadcom 5709 Single 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
M610, M710, and M910	Broadcom 5709 1GbE NIC with TOE	14.2.0_A03 or later
M610, M610x, M710, M710HD, and M910	Broadcom 57110 10GbE Ethernet NIC with TOE	14.2.0_A03 or later

Ethernet Switches (dedicated for iSCSI)

Any Gigabit Ethernet switch, including Gigabit Ethernet switch modules supported in the Dell PowerEdge blade enclosure

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