



Netapp Interoperability Matrix

NetApp® FC, FCoE, iSCSI and NAS (NFS) Storage System Interoperability

The NetApp Interoperability Matrix (IMT) defines the components and versions that have been qualified and which can be used to construct FC/FCoE, iSCSI and NFS configurations that are supported end-to-end by NetApp. NetApp partners with operating system, I/O stack and hardware component vendors during their development and release cycles in order to provide support and interoperability at or within certain periods following the vendors general availability release. For support of configurations not included in the NetApp Interoperability Matrix, including pre-general-availability releases, or to obtain support for your particular configuration via the NetApp Product Variance Request (PVR) process, please contact your NetApp account team or partner. If you experience technical issues with NetApp storage systems in configurations not listed in the NetApp Interoperability Matrix, the NetApp Technical Support Center will diagnose and support the configuration on a best-efforts basis, and resolution may require changing the configuration to one currently listed in the matrices or working with your account team or partner through the PVR process.

NetApp provides complimentary host utilities for FC/FCoE, iSCSI, and NFS storage systems that ensure proper integration with host operating system, I/O stack and host hardware components, and use of the NetApp host utilities is required for generally supported configurations within the NetApp Interoperability Matrix. The applicable host utilities are specified in the rows and notes of the host operating system interoperability matrices.

Beyond the configuration components practically required to have basic I/O, such as the host operating system level, server or processor architecture, initiator and host multipath, the components listed in the interoperability matrices are elective and the row-based configurations reflect the entire configuration supported by NetApp. Note that NetApp supports all server hardware models corresponding to the server or processor architecture listed in the interoperability matrix, but does not specify server models by brand.

NetApp storage systems are built on a common operating system infrastructure - Data ONTAP®. Unless otherwise noted in the matrices, support by the Data ONTAP operating system is the criterion used to determine whether a system configuration is qualified in a particular environment rather than the particular hardware model of the system. All system models that run a qualified Data ONTAP version are equivalent for support purposes.

Non-disruptive Upgrade

Non-disruptive upgrade of Data ONTAP and other system-level components is supported for SAN and NFS environments.

Minor NDU (within a Data ONTAP version family) is supported in Data ONTAP 6.5.3 and later.

Major NDU (between Data ONTAP version families) is supported in Data ONTAP 7.0.6 and later to Data ONTAP 7.2.3 and later for Data ONTAP 7.2.x target releases.

Major NDU is supported from Data ONTAP 7.1.2 and later to Data ONTAP 7.2.3 and later for Data ONTAP 7.2.x target releases.

Major NDU is supported from Data ONTAP 7.2.3 and later to Data ONTAP 7.3 GA and later for Data ONTAP 7.3.x target releases.

NDU Documentation - For complete information about non-disruptive upgrade, see the Data ONTAP Upgrade Guide for either Data ONTAP 7.2.5.1 or 7.3, available on NOW at <http://now.netapp.com/NOW/knowledge/docs/ontap/rel7251/> and <http://now.netapp.com/NOW/knowledge/docs/ontap/rel73/>.

NetApp storage systems are built on a common operating system infrastructure - Data ONTAP®. Unless otherwise noted in the matrices, support by the Data ONTAP operating system is the criterion used to determine whether a system configuration is qualified in a particular environment rather than the particular hardware model of the system. All system models that run a qualified Data ONTAP version are equivalent for support purposes. The NetApp storage systems below run the Data ONTAP operating system and support the FC, iSCSI and NFS protocols (list refers to stand-alone and high-availability storage systems). Refer to the Host Operating System matrices above for details about Data ONTAP versions qualified with a particular host.

NetApp Upgrade Advisor - an online tool available on the NOW (NetApp on the Web) site for all systems with a valid support contract that are configured to send AutoSupport messages. When you submit your system identification and target release, the Upgrade Advisor compares AutoSupport data about your system to known requirements and limitations of the target release and generates an upgrade plan (and optionally a back-out plan) with recommended preparation and execution procedures. The Upgrade Advisor not only dramatically simplifies the process of qualifying your environment for a successful upgrade; the automated mechanism significantly reduces the potential for human error. In conjunction with the Upgrade Advisor, NetApp best practice for NDU strongly recommends review of the Data ONTAP Upgrade Guide and Release Notes. For more information, see AutoSupport home on NOW at <http://now.netapp.com/NOW/asuphome/>.

Oracle

For Oracle information, please see <https://support.oracle.com/CSP/ui/flash.html>.

End of Support

NetApp aims to provide continued support for installed configurations, but may remove configurations and support from the NetApp Interoperability Matrix within three months after an operating system, I/O stack or hardware component vendor announces end of support for a product. NetApp will continue support for existing installations of end-of-support configurations as long as general support is available from the applicable vendor. Support of NetApp storage systems and software is provided according to NetApp's standard warranty and support lifecycle.

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NetApp Interoperability Matrix

Search Criteria

Storage Solution	SnapManager for Microsoft SQL Server (SMSQL)
Name	
Status	All
Last modified from	
Last modified till	
Components	Microsoft Windows 2000 AdvServer (SP2); Microsoft Windows 2000 AdvServer (SP3); Microsoft Windows 2000 AdvServer (SP4); Microsoft Windows 2000 Server (SP2); Microsoft Windows 2000 Server (SP3); Microsoft Windows 2000 Server (SP4); Microsoft SQL Server 2000 EE (SP2 32-bit, x86); Microsoft SQL Server 2000 EE (SP3 32-bit, x86); Microsoft SQL Server 2000 EE (SP3a 32-bit, x86); Microsoft SQL Server 2000 EE (SP4 32-bit, x86); Microsoft SQL Server 2000 SE (SP2 32-bit, x86); Microsoft SQL Server 2000 SE (SP3 32-bit, x86); Microsoft SQL Server 2000 SE (SP3a 32-bit, x86); Microsoft SQL Server 2000 SE (SP4 32-bit, x86);

NetApp Interoperability Matrix

SnapManager for SQL Server

SnapManager for SQL Server

Name	Status	Foot notes	Protocol	SnapManager	SnapDrive	Host OS	Host-Application	Host Clustering
20080708-120700602-6244	Supported	Info: 629,1721,1723		SnapManager 2.1.2 for SQL Server (32-bit, x86)	SnapDrive 4.1 for Windows (32-bit, x86); SnapDrive 4.2 for Windows (32-bit, x86); SnapDrive 4.2.1 for Windows (32-bit, x86)	Microsoft Windows 2000 AdvServer (SP4); Microsoft Windows 2000 Server (SP4); Microsoft Windows Server 2003 EE (SP1 32-bit, x86); Microsoft Windows Server 2003 EE (SP2 32-bit, x86); Microsoft Windows Server 2003 R2 EE (32-bit, x86); Microsoft Windows Server 2003 R2 EE (SP2 32-bit, x86); Microsoft Windows Server 2003 R2 SE (32-bit, x86); Microsoft Windows Server 2003 R2 SE (SP2 32-bit, x86); Microsoft Windows Server 2003 SE (SP1 32-bit, x86); Microsoft Windows Server 2003 SE (SP2 32-bit, x86)	Microsoft SQL Server 2000 EE (SP3a 32-bit, x86); Microsoft SQL Server 2000 EE (SP4 32-bit, x86); Microsoft SQL Server 2000 SE (SP3a 32-bit, x86); Microsoft SQL Server 2000 SE (SP4 32-bit, x86); Microsoft SQL Server 2005 EE (SP1 32-bit, x86); Microsoft SQL Server 2005 EE (SP2 32-bit, x86); Microsoft SQL Server 2005 EE (SP3 32-bit, x86); Microsoft SQL Server 2005 SE (SP1 32-bit, x86); Microsoft SQL Server 2005 SE (SP2 32-bit, x86); Microsoft SQL Server 2005 SE (SP3 32-bit, x86)	
20080220-070228038-5895	Supported	Info: 1723		SnapManager 1.0 for SQL Server	SnapDrive 2.0.1 for Windows; SnapDrive 2.1 for Windows; SnapDrive 3.0 for Windows; SnapDrive 3.0R2 for Windows	Microsoft Windows 2000 AdvServer (SP2); Microsoft Windows 2000 AdvServer (SP3); Microsoft Windows 2000 AdvServer (SP4); Microsoft Windows 2000 Server (SP2); Microsoft Windows 2000 Server (SP3); Microsoft Windows 2000 Server (SP4)	Microsoft SQL Server 2000 EE (SP2 32-bit, x86); Microsoft SQL Server 2000 EE (SP3 32-bit, x86); Microsoft SQL Server 2000 EE (SP3a 32-bit, x86); Microsoft SQL Server 2000 SE (SP2 32-bit, x86); Microsoft SQL Server 2000 SE (SP3 32-bit, x86); Microsoft SQL Server 2000 SE (SP3a 32-bit, x86)	
20080220-070228037-5893	Supported	Info: 1723		SnapManager 1.0 for SQL Server	SnapDrive 3.1 for Windows; SnapDrive 3.1.1 for Windows; SnapDrive 3.1.1R1 for Windows	Microsoft Windows 2000 AdvServer (SP2); Microsoft Windows 2000 AdvServer (SP3); Microsoft Windows 2000 AdvServer (SP4); Microsoft Windows 2000 Server (SP2); Microsoft Windows 2000 Server (SP3); Microsoft Windows 2000 Server (SP4)	Microsoft SQL Server 2000 EE (SP2 32-bit, x86); Microsoft SQL Server 2000 EE (SP3 32-bit, x86); Microsoft SQL Server 2000 EE (SP3a 32-bit, x86); Microsoft SQL Server 2000 SE (SP2 32-bit, x86); Microsoft SQL Server 2000 SE (SP3 32-bit, x86); Microsoft SQL Server 2000 SE (SP3a 32-bit, x86)	

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SnapManager for SQL Server

Name	Status	Foot notes	Protocol	SnapManager	SnapDrive	Host OS	Host-Application	Host Clustering
20080220-070228037-5891	Supported	Info: 632,1723		SnapManager 1.5 for SQL Server	SnapDrive 3.1 for Windows; SnapDrive 3.1.1 for Windows	Microsoft Windows 2000 AdvServer (SP4); Microsoft Windows 2000 Server (SP4)	Microsoft SQL Server 2000 EE (SP3a 32-bit, x86); Microsoft SQL Server 2000 EE (SP4 32-bit, x86); Microsoft SQL Server 2000 SE (SP3a 32-bit, x86); Microsoft SQL Server 2000 SE (SP4 32-bit, x86)	
20080220-070228036-5889	Supported	Info: 632,1723		SnapManager 1.5 for SQL Server	SnapDrive 3.1.1R1 for Windows; SnapDrive 3.2 for Windows; SnapDrive 3.2R1 for Windows; SnapDrive 4.0 for Windows	Microsoft Windows 2000 AdvServer (SP4); Microsoft Windows 2000 Server (SP4)	Microsoft SQL Server 2000 EE (SP3a 32-bit, x86); Microsoft SQL Server 2000 EE (SP4 32-bit, x86); Microsoft SQL Server 2000 SE (SP3a 32-bit, x86); Microsoft SQL Server 2000 SE (SP4 32-bit, x86)	
20080220-070228035-5887	Supported	Info: 630,631,1723		SnapManager 2.0 for SQL Server	SnapDrive 3.1.1R1 for Windows; SnapDrive 3.2 for Windows; SnapDrive 3.2R1 for Windows; SnapDrive 4.0 for Windows	Microsoft Windows 2000 AdvServer (SP4); Microsoft Windows 2000 Server (SP4)	Microsoft SQL Server 2000 EE (SP3a 32-bit, x86); Microsoft SQL Server 2000 EE (SP4 32-bit, x86); Microsoft SQL Server 2000 SE (SP3a 32-bit, x86); Microsoft SQL Server 2000 SE (SP4 32-bit, x86); Microsoft SQL Server 2005 EE (- 32-bit, x86); Microsoft SQL Server 2005 SE (- 32-bit, x86)	
20080220-070228035-5885	Supported	Info: 630,631,1723		SnapManager 2.0 for SQL Server	SnapDrive 4.1 for Windows (32-bit, x86); SnapDrive 4.2 for Windows (32-bit, x86)	Microsoft Windows 2000 AdvServer (SP4); Microsoft Windows 2000 Server (SP4)	Microsoft SQL Server 2000 EE (SP3a 32-bit, x86); Microsoft SQL Server 2000 EE (SP4 32-bit, x86); Microsoft SQL Server 2000 SE (SP3a 32-bit, x86); Microsoft SQL Server 2000 SE (SP4 32-bit, x86); Microsoft SQL Server 2005 EE (- 32-bit, x86); Microsoft SQL Server 2005 EE (SP1 32-bit, x86); Microsoft SQL Server 2005 SE (- 32-bit, x86); Microsoft SQL Server 2005 SE (SP1 32-bit, x86)	

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SnapManager for SQL Server

Name	Status	Foot notes	Protocol	SnapManager	SnapDrive	Host OS	Host-Application	Host Clustering
20080220-070228033-5881	Supported	Info: 630,1723		SnapManager 2.1 for SQL Server (32-bit, x86)	SnapDrive 4.1 for Windows (32-bit, x86); SnapDrive 4.2 for Windows (32-bit, x86); SnapDrive 4.2.1 for Windows (32-bit, x86)	Microsoft Windows 2000 AdvServer (SP4); Microsoft Windows 2000 Server (SP4)	Microsoft SQL Server 2000 EE (SP3a 32-bit, x86); Microsoft SQL Server 2000 EE (SP4 32-bit, x86); Microsoft SQL Server 2000 SE (SP3a 32-bit, x86); Microsoft SQL Server 2000 SE (SP4 32-bit, x86); Microsoft SQL Server 2005 EE (- 32-bit, x86); Microsoft SQL Server 2005 EE (SP1 32-bit, x86); Microsoft SQL Server 2005 SE (- 32-bit, x86); Microsoft SQL Server 2005 SE (SP1 32-bit, x86)	
20080220-070228032-5877	Supported	Info: 629,1721,1723		SnapManager 2.1.1 for SQL Server (32-bit, x86)	SnapDrive 4.1 for Windows (32-bit, x86); SnapDrive 4.2 for Windows (32-bit, x86); SnapDrive 4.2.1 for Windows (32-bit, x86)	Microsoft Windows 2000 AdvServer (SP4); Microsoft Windows 2000 Server (SP4)	Microsoft SQL Server 2000 EE (SP3a 32-bit, x86); Microsoft SQL Server 2000 EE (SP4 32-bit, x86); Microsoft SQL Server 2000 SE (SP3a 32-bit, x86); Microsoft SQL Server 2000 SE (SP4 32-bit, x86); Microsoft SQL Server 2005 EE (SP1 32-bit, x86); Microsoft SQL Server 2005 EE (SP2 32-bit, x86); Microsoft SQL Server 2005 SE (SP1 32-bit, x86); Microsoft SQL Server 2005 SE (SP2 32-bit, x86)	

Info

Note ID	Text
632	SnapManager for SQL 1.5 does not support the use of volume mount points.
1721	SnapManager for SQL Server is supported on a Guest OS on the following virtualization products: VMware ESX 3.0.2 Update 1 plus patches (ESX-1004210 and 1004211) and later or ESX 3.5 Update 1 and Microsoft 2008 Hyper-V
630	If the host system is running SQL Server 2005, Microsoft Data Access Components (MDAC) 2.8 SP1 must be installed. Windows Server 2003 SP1 includes MDAC 2.8 SP2, which is required for SQL Server 2005 on Windows Server 2003.
1723	SMSQL supports protocol, NTAP-OS, Host-Multipath, and Host-Cluster that are indicated in SnapDrive release.
631	SnapManager 2.0 for SQL Server does not support the use of volume mount points.

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Note ID	Text
629	If the host system is running SQL Server 2005, Microsoft Data Access Components (MDAC) 2.8 SP1 must be installed. Windows Server 2003 SP1 and SP2 include MDAC 2.8 SP2, which is required for SQL Server 2005 on Windows Server 2003.

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