IBM

IBM System Storage N series –
SnapManager® Interoperability Matrix

Covering:

N3000 System Hardware	**N3300** 2859-(A10, A20), **N3600** 2862-(A10, A20)
N3700 System Hardware	**N3700** 2863-(A10, A20)
N5000 System Hardware	**N5200** 2864-(A10, A20, G10, G20), **N5500** 2865-(A10, A20, G10, G20) **N5300** 2869-(A10, A20, G10, G20), **N5600** 2868-(A10, A20, G10, G20)
N6000 System Hardware	**N6040** 2858-(A10, A20) or with Gateway Feature Code 9551 **N6060** 2858-(A12, A22) or with Gateway Feature Code 9551 **N6070** 2858-(A11, A21) or with Gateway Feature Code 9551
N7000 System Hardware	**N7600** 2866-(A10, A20, G10, G20), **N7800** 2867-(A10, A20, G10, G20) **N7700** 2866-(A11, A21, G11, G21), **N7900** 2867-(A11, A21, G11, G21)
N3000, N3700, N5000, N6000, N7000 Licensed Functions	2870-(591, 592, 621, 622, 631, 632, 641, 642, 645, 646, 651, 652, 655, 656, 661, 662, 665, 666, 663, 664, 667, 668, 671, 672, 675, 676, 673, 674, 677, 678, 681, 682, 685, 686, 691, 692, 695, 696)

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IBM System Storage
http://www.storage.ibm.com

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SnapManager Interoperability Matrix

SnapManager for Microsoft Exchange, SharePoint, and SQL

	SnapDrive Version	Windows Version	Application Version	Additional Notes
SnapManager for Microsoft SQL Server				
SnapManager 2.1.2 for SQL Server (x86)	6.0.1 (x86) 6.0 (x86)	Windows Server 2008 Standard Edition (x86) Windows Server 2008 Enterprise Edition (x86)	SQL Server 2005 Enterprise Edition (SP2, x86) SQL Server 2005 Standard Edition (SP2, x86) SQL Server 2005 Standard Edition (SP3, x86) SQL Server 2005 Enterprise Edition (SP3, x86))	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.
	6.0.1 (x86) 6.0 (x86) 5.0 (x86) 4.2.1 (x86) 4.2 (x86) 4.1 (x86)	Windows Server 2003 Standard Edition (SP1, x86) Windows Server 2003 Standard Edition (SP2, x86) Windows Server 2003 Enterprise Edition (SP1, x86) Windows Server 2003 Enterprise Edition (SP, x86) Windows Server 2003 R2 Standard Edition (x86) Windows Server 2003 R2 Enterprise Edition (x86) Windows Server 2003 R2 Standard Edition (SP2, x86) Windows Server 2003 R2 Enterprise Edition (SP2, x86)	SQL Server 2005 Enterprise Edition (SP1, x86) SQL Server 2005 Enterprise Edition (SP2, x86) SQL Server 2005 Standard Edition (SP1, x86) SQL Server 2005 Standard Edition (SP2, x86) SQL Server 2000 Standard Edition (SP3a, x86) SQL Server 2000 Standard Edition (SP4, x86) SQL Server 2000 Enterprise Edition (SP3a, x86) SQL Server 2000 Enterprise Edition (SP4, x86)	"SnapManager for SQL Server is supported on a Guest OS on the following virtualization products: VMware ESX 3.0.2 (Update1) and Microsoft 2008 Hyper-V" SMSQL supports same "protocol", "NTAP-OS", "Host-Multipath", and "Host-Cluster" that are indicated in SnapDrive release.
	6.0.1 (IA 64) 6.0 (IA 64)	Windows Server 2008 Enterprise Edition (IA64	SQL Server 2005 Enterprise Edition (SP2, IA64)	
	5.0 (IA-64) 4.2.1 (IA-64) 4.2 (IA-64)	Windows Server 2003 Enterprise Edition (SP1,IA-64) Windows Server 2003 Enterprise Edition (SP2,IA-64) Windows Server 2003 R2 Enterprise Edition (IA-64) Windows Server 2003 R2 Enterprise Edition (SP2, IA-64)	SQL Server 2005 Enterprise Edition (SP1, IA64) SQL Server 2005 Enterprise Edition (SP2, IA64)	

SnapManager 2.1.2 for SQL Server (x64)	6.0.1 (x64) 6.0 (x64)	Windows Server 2008 Standard Edition (x64) Windows Server 2008 Enterprise Edition (x64)	SQL Server 2005 Standard Edition (SP2, x64) SQL Server 2005 Standard Edition (SP3, x64) SQL Server 2005 Enterprise Edition (SP2, x64) SQL Server 2005 Enterprise Edition (SP3, x64)	
	6.0.1 (x64) 6.0 (x64) 5.0 (x64) 4.2.1 (x64) 4.2 (x64) 4.1 (x64)	Windows Server 2003 Standard Edition (SP1, x64) Windows Server 2003 Standard Edition (SP2, x64) Windows Server 2003 Enterprise Edition (SP1, x64) Windows Server 2003 Enterprise Edition (SP2, x64) Windows Server 2003 R2 Standard Edition (x64) Windows Server 2003 R2 Enterprise Edition (x64) Windows Server 2003 R2 Standard Edition (SP2, x64) Windows Server 2003 R2 Enterprise Edition (SP2, x64)	SQL Server 2005 Standard Edition (SP1, x64) SQL Server 2005 Standard Edition (SP2, x64) SQL Server 2005 Standard Edition (SP3, x64) SQL Server 2005 Enterprise Edition (SP1, x64) SQL Server 2005 Enterprise Edition (SP2, x64) SQL Server 2005 Enterprise Edition (SP3, x64)	
SnapManager 2.1.1 for SQL Server (x86)	6.0.1 (x86) 6.0 (x86) 5.0 (x86) 4.2.1 (x86) 4.2 (x86) 4.1 (x86	Windows Server 2003 Standard Edition with SP1 or SP2 (x86) Windows Server 2003 Enterprise Edition with SP1 or SP2 (x86) Windows Server 2003 R2 Standard Edition (x86) Windows Server 2003 R2 Enterprise Edition (x86) Windows Server 2003 R2 Standard Edition with SP2 (x86) Windows Server 2003 R2 Enterprise Edition with SP2 (x86)	SQL Server 2005 Enterprise Edition (SP1,x86) SQL Server 2005 Enterprise Edition (SP2,x86) SQL Server 2005 Enterprise Edition (SP3,x86) SQL Server 2005 Standard Edition (SP1, x86) SQL Server 2005 Standard Edition (SP2, x86) SQL Server 2005 Standard Edition (SP3, x86) SQL Server 2000 Standard Edition (SP3, x86) SQL Server 2000 Standard Edition (SP3a, x86) SQL Server 2000 Standard Edition (SP4, x86) SQL Server 2000 Enterprise Edition (SP3, x86) SQL Server 2000 Enterprise Edition (SP3a, x86) SQL Server 2000 Enterprise Edition (SP4, x86)	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. "SnapManager for SQL Server is supported on a Guest OS on the following virtualization products: VMware ESX 3.0.2 (Update1) and Microsoft 2008 Hyper-V"

	4.2.1 (x86) 4.2 (x86) 4.1 (x86)	Windows 2000 Server SP4 (x86) Windows 2000 Advanced Server SP4 (x86) Windows Server 2003 Standard Edition with SP1 or SP2 (x86) Windows Server 2003 Enterprise Edition with SP1 or SP2 (x86) Windows Server 2003 R2 Standard Edition (x86) Windows Server 2003 R2 Enterprise Edition (x86) Windows Server 2003 R2 Standard Edition with SP2 (x86) Windows Server 2003 R2 Enterprise Edition with SP2 (x86)	SQL Server 2005 Standard Edition (SP1, x86) SQL Server 2005 Standard Edition (SP2, x86) SQL Server 2005 Enterprise Edition (SP1, x86) SQL Server 2005 Enterprise Edition (SP2, x86) SQL Server 2000 Standard Edition (SP3a, x86) SQL Server 2000 Enterprise Edition (SP4, x86)	SMSQL supports same "protocol", "NTAP-OS", "Host-Multipath", and "Host-Cluster" that are indicated in SnapDrive release.
	5.0 (IA-64) 4.2.1 (IA-64) 4.2 (IA-64)	Windows Server 2003 Enterprise Edition (SP1,IA-64) Windows Server 2003 Enterprise Edition (SP2,IA-64) Windows Server 2003 R2 Enterprise Edition (IA-64) Windows Server 2003 R2 Enterprise Edition (SP2, IA-64)	SQL Server 2005 Enterprise Edition (SP1, IA64) SQL Server 2005 Enterprise Edition (SP2, IA64)	
SnapManager 2.1.1 for SQL Server (x64)	6.0.1 (x64) 6.0 (x64) 5.0 (x64) 4.2.1 (x64) 4.2 (x64) 4.1 (x64)	Windows Server 2003 Standard Edition (SP1, x64) Windows Server 2003 Standard Edition (SP2, x64) Windows Server 2003 Enterprise Edition (SP1, x64) Windows Server 2003 Enterprise Edition (SP2, x64) Windows Server 2003 R2 Standard Edition (x64) Windows Server 2003 R2 Enterprise Edition (x64) Windows Server 2003 R2 Standard Edition (SP2, x64) Windows Server 2003 R2 Enterprise Edition (SP2, x64)	SQL Server 2005 Standard Edition (SP1, x64) SQL Server 2005 Standard Edition (SP2, x64) SQL Server 2005 Standard Edition (SP3, x64) SQL Server 2005 Enterprise Edition (SP1, x64) SQL Server 2005 Enterprise Edition (SP2, x64) SQL Server 2005 Enterprise Edition (SP3, x64)	
SnapManager 2.1R1 for SQL Server (x86)	5.0 (x86) 4.2.1 (x86) 4.2 (x86) 4.1 (x86)	Windows Server 2003 Standard Edition with SP1 or SP2 (x86) Windows Server 2003 Enterprise Edition with SP1 or SP2 (x86) Windows Server 2003 R2 Standard Edition (x86) Windows Server 2003 R2 Enterprise Edition (x86) Windows Server 2003 R2 Standard Edition with SP2 (x86) Windows Server 2003 R2 Enterprise Edition with SP2 (x86)	SQL Server 2005 Standard Edition with SP1 or SP2 (x86) SQL Server 2005 Enterprise Edition with SP1 or SP2 (x86) SQL Server 2000 Standard Edition SP3a or SP4 (x86) SQL Server 2000 Enterprise Edition SP3a or SP4 (x86)	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.

	4.2.1 (x86) 4.2 (x86) 4.1 (x86)	Windows 2000 Server SP4 (x86) Windows 2000 Advanced Server SP4 (x86) Windows Server 2003 Standard Edition with SP1 or SP2 (x86) Windows Server 2003 Enterprise Edition with SP1 or SP2 (x86) Windows Server 2003 R2 Standard Edition (x86) Windows Server 2003 R2 Enterprise Edition (x86) Windows Server 2003 R2 Standard Edition with SP2 (x86) Windows Server 2003 R2 Enterprise Edition with SP2 (x86)	SQL Server 2005 Standard Edition with SP1 or SP2 (x86) SQL Server 2005 Enterprise Edition with SP1 or SP2 (x86) SQL Server 2000 Standard Edition SP3a or SP4 (x86) SQL Server 2000 Enterprise Edition SP3a or SP4 (x86)	
	5.0 (IA-64) 4.2.1 (IA-64) 4.2 (IA-64)	Windows Server 2003 Enterprise Edition with SP1 or SP2 (IA-64) Windows Server 2003 R2 Enterprise Edition (IA-64) Windows Server 2003 R2 Enterprise Edition with SP2 (IA-64)	SQL Server 2005 Enterprise Edition with SP1 or SP2 (IA-64)	
SnapManager 2.1R1 for SQL Server (x64)	5.0 (x64) 4.2.1 (x64) 4.2 (x64) 4.1 (x64)	Windows Server 2003 Standard Edition with SP1 or SP2 (x64) Windows Server 2003 Enterprise Edition with SP1 or SP2 (x64) Windows Server 2003 R2 Standard Edition (x64) Windows Server 2003 R2 Enterprise Edition (x64) Windows Server 2003 R2 Standard Edition with SP2 (x64) Windows Server 2003 R2 Enterprise Edition with SP2 (x64)	SQL Server 2005 Standard Edition with SP1 or SP2 (x64) SQL Server 2005 Enterprise Edition with SP1 or SP2 (x64)	

SnapManager 2.1 for SQL Server (x86)	4.2.1 (x86) 4.2 (x86) 4.1 (x86)	Windows 2000 Server SP4 (x86) Windows 2000 Advanced Server SP4 (x86) Windows Server 2003 Standard Edition with SP1 (x86) Windows Server 2003 Enterprise Edition with SP1 (x86) Windows Server 2003 R2 Standard Edition (x86) Windows Server 2003 R2 Enterprise Edition (x86)	SQL Server 2000 Standard Edition SP3a, SP4 (x86) SQL Server 2000 Enterprise Edition SP3a, SP4 (x86) SQL Server 2005 Standard Edition (x86) SQL Server 2005 Enterprise Edition (x86) SQL Server 2005 Standard Edition with SP1(x86) SQL Server 2005 Enterprise Edition with SP1 (x86)	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.
	4.2.1 (IA-64) 4.2 (IA-64)	Windows Server 2003 Enterprise Edition with SP1 (IA-64) Windows Server 2003 R2 Enterprise Edition (IA-64)	SQL Server 2005 Enterprise Edition (IA-64) SQL Server 2005 Enterprise Edition with SP1 (IA-64)	
SnapManager 2.1 for SQL Server (x64)	4.2.1 (x64) 4.2 (x64) 4.1 (x64)	Windows Server 2003 Standard Edition with SP1 (x86 & x64) Windows Server 2003 Enterprise Edition with SP1 (x86, x64, and IA-64) Windows Server 2003 R2 Standard Edition (x86, x64) Windows Server 2003 R2 Enterprise Edition (x86, x64, and IA-64)	SQL Server 2005 Enterprise Edition (x64) SQL Server 2005 Standard Edition with SP1(x64) SQL Server 2005 Enterprise Edition with SP1 (x64)	
SnapManager 2.0 for SQL Server	4.2 (x86 and x64) 4.1 (x86 and x64)	Windows Server 2003 Standard Edition SP1 (x86) Windows Server 2003 Enterprise Edition SP1 (x86) Windows Server 2003 R2 Standard Edition (x86) Windows Server 2003 R2 Enterprise Edition (x86) Windows Server 2003 Standard Edition SP1 (x64) Windows Server 2003 Enterprise Edition SP1 (x64) Windows Server 2003 R2 Standard Edition (x64) Windows Server 2003 R2 Enterprise Edition (x64) Windows 2000 Server SP4 Windows 2000 Advanced Server SP4	SQL Server 2000 Standard Edition SP3a, SP4 (x86) SQL Server 2000 Enterprise Edition SP3a, SP4 (x86) SQL Server 2005 Standard Edition (x86) SQL Server 2005 Enterprise Edition (x86) SQL Server 2005 Enterprise Edition (x64) SQL Server 2005 Standard Edition with SP1(x86) SQL Server 2005 Standard Edition with SP1(x86) SQL Server 2005 Enterprise Edition with SP1(x64)	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. SnapManager 2.0 for SQL Server does not support the use of volume mount points.

	4.0 3.2R1 3.1.1R1 3.2	Windows Server 2003 Standard Edition SP1 Windows Server 2003 Enterprise Edition SP1 Windows Server 2003 R2 Standard Edition Windows Server 2003 R2 Enterprise Edition Windows 2000 Server SP4 Windows 2000 Advanced Server SP4	SQL Server 2000 Standard Edition SP3a, SP4 SQL Server 2000 Enterprise Edition SP3a, SP4 SQL Server 2005 Standard Edition SQL Server 2005 Enterprise Edition
	3.0R2 3.0 2.1 2.0.1	Windows 2000 Server SP2, SP3, SP4 Windows 2000 Advanced Server SP2, SP3, SP4 Windows Server 2003 Enterprise Edition	SQL Server 2000 SP2, SP3, SP3a

SnapManager for Microsoft Office SharePoint Server

SnapManager 1.0 for SharePoint Server (x86)	2.1.1 (x86)	Windows 2000 Server with SP4 (x86) Windows 2000 Advanced Server with SP4 (x86) Windows Server 2003 Standard Edition with SP2 (x86) Windows Server 2003 Enterprise Edition with SP2 (x86) Windows Server 2003 R2 Standard Edition with SP2 (x86) Windows Server 2003 R2 Enterprise Edition with SP2 (x86)	SQL Server 2005 Standard Edition with SP2 (x86) SQL Server 2005 Enterprise Edition with SP2 (x86) SQL Server 2000 Standard Edition SP4 (x86) SQL Server 2000 Enterprise Edition SP4 (x86)	Office SharePoint Server 2007 Standard Edition (x86) Office SharePoint Server 2007 Enterprise Edition (x86)
SnapManager 1.0 for SharePoint Server (x64)	2.1.1 (x64)	Windows Server 2003 Standard Edition with SP2 (x64) Windows Server 2003 Enterprise Edition with SP2 (x64) Windows Server 2003 R2 Standard Edition with SP2 (x64) Windows Server 2003 R2 Enterprise Edition with SP2 (x64)	SQL Server 2005 Standard Edition with SP2 (x64) SQL Server 2005 Enterprise Edition with SP2 (x64) SQL Server 2000 Standard Edition SP4 (x64) SQL Server 2000 Enterprise Edition SP4 (x64)	Office SharePoint Server 2007 Standard Edition (x64) Office SharePoint Server 2007 Enterprise Edition (x64)
SnapManager 1.1 for SharePoint Server (x86)	2.1.1 (x86)	Windows 2000 Server with SP4 (x86) Windows 2000 Advanced Server with SP4 (x86) Windows Server 2003 Standard Edition with SP2 (x86) Windows Server 2003 Enterprise Edition with SP2 (x86) Windows Server 2003 R2 Standard Edition with SP2 (x86) Windows Server 2003 R2 Enterprise Edition with SP2 (x86)	SQL Server 2005 Standard Edition with SP2 (x86) SQL Server 2005 Enterprise Edition with SP2 (x86) SQL Server 2000 Standard Edition with SP4 (x86) SQL Server 2000 Enterprise Edition with SP4 (x86)	Microsoft Office SharePoint Server 2007 Standard Edition (x86) Microsoft Office SharePoint Server 2007 Enterprise Edition (x86) Microsoft Windows SharePoint Services 3.0 (x86)
SnapManager 1.1 for SharePoint Server (x64)	2.1.1 (x64)	Windows Server 2003 Standard Edition with SP2 (x64) Windows Server 2003 Enterprise Edition with SP2 (x64) Windows Server 2003 R2 Standard Edition with SP2 (x64) Windows Server 2003 R2 Enterprise Edition with SP2 (x64)	SQL Server 2005 Standard Edition with SP2 (x64) SQL Server 2005 Enterprise Edition with SP2 (x64) SQL Server 2000 Standard Edition SP4 (x64) SQL Server 2000 Enterprise Edition SP4 (x64)	Microsoft Office SharePoint Server 2007 Standard Edition (x64) Microsoft Office SharePoint Server 2007 Enterprise Edition (x64) Microsoft Windows SharePoint Services 3.0 (x64)

SnapManager 1.1P2 for SharePoint Server (x86)	2.1.1 (x86)	Windows 2000 Server with SP4 (x86) Windows 2000 Advanced Server with SP4 (x86) Windows Server 2003 Standard Edition with SP2 (x86) Windows Server 2003 Enterprise Edition with SP2 (x86) Windows Server 2003 R2 Standard Edition with SP2 (x86) Windows Server 2003 R2 Enterprise Edition with SP2 (x86) Windows Guest OS (86) on ESX Server 3.0.2 Update 1	SQL Server 2005 Standard Edition with SP2 (x86) SQL Server 2005 Enterprise Edition with SP2 (x86) SQL Server 2000 Standard Edition with SP4 (x86) SQL Server 2000 Enterprise Edition with SP4 (x86)	Microsoft Office SharePoint Server 2007 Standard Edition (x86) Microsoft Office SharePoint Server 2007 Enterprise Edition (x86) Microsoft Office SharePoint Server 2007 Standard Edition with SP1 (x86) Microsoft Office SharePoint Server 2007 Enterprise Edition with SP1 (x86) Microsoft Windows SharePoint Services 3.0 (x86) Microsoft Windows SharePoint Services 3.0 SP1 (x86)
SnapManager 1.1P2 for SharePoint Server (x64)	2.1.1 (x64)	Windows Server 2003 Standard Edition with SP2 (x64) Windows Server 2003 Enterprise Edition with SP2 (x64) Windows Server 2003 R2 Standard Edition with SP2 (x64) Windows Server 2003 R2 Enterprise Edition with SP2 (x64) Windows Guest OS (64) on ESX Server 3.0.2 Update 1	SQL Server 2005 Standard Edition with SP2 (x64) SQL Server 2005 Enterprise Edition with SP2 (x64) SQL Server 2000 Standard Edition SP4 (x64) SQL Server 2000 Enterprise Edition SP4 (x64)	Microsoft Office SharePoint Server 2007 Standard Edition (x64) Microsoft Office SharePoint Server 2007 Enterprise Edition (x64) Microsoft Office SharePoint Server 2007 Standard Edition with SP1 (x64) Microsoft Office SharePoint Server 2007 Enterprise Edition with SP1 (x64) Microsoft Windows SharePoint Services 3.0 (x64) Microsoft Windows SharePoint Services 3.0 SP1 (x64)

SnapManager 1.1.1 for SharePoint Server (x86)	2.1.2 (x86)	Windows 2000 Server with SP4 (x86) Windows 2000 Advanced Server with SP4 (x86) Windows Server 2003 Standard Edition with SP2 (x86) Windows Server 2003 Enterprise Edition with SP2 (x86) Windows Server 2003 R2 Standard Edition with SP2 (x86) Windows Server 2003 R2 Enterprise Edition with SP2 (x86) Windows Server 2008 Standard Edition (x86) Windows Server 2008 Enterprise Edition (x86) Windows Guest OS (86) on ESX Server 3.0.2 Update 1 Windows Child OS (86) on Hyper-V	SQL Server 2000 Standard Edition with SP4 (x86) SQL Server 2000 Enterprise Edition with SP4 (x86) SQL Server 2005 Standard Edition with SP2 (x86) SQL Server 2005 Enterprise Edition with SP2 (x86)	Microsoft Office SharePoint Server 2007 Standard Edition (x86) Microsoft Office SharePoint Server 2007 Enterprise Edition (x86) Microsoft Office SharePoint Server 2007 Standard Edition with SP1 (x86) Microsoft Office SharePoint Server 2007 Enterprise Edition with SP1 (x86) Microsoft Windows SharePoint Services 3.0 (x86) Microsoft Windows SharePoint Services 3.0 SP1 (x86)
SnapManager 1.1.1 for SharePoint Server (x64)	2.1.2 (x64)	Windows Server 2003 Standard Edition with SP2 (x64) Windows Server 2003 Enterprise Edition with SP2 (x64) Windows Server 2003 R2 Standard Edition with SP2 (x64) Windows Server 2003 R2 Enterprise Edition with SP2 (x64) Windows Server 2008 Standard Edition (x64) Windows Server 2008 Enterprise Edition (x64) Windows Guest OS (64) on ESX Server 3.0.2 Update 1 Windows Child OS (64) on Hyper-V	SQL Server 2000 Standard Edition SP4 (x64) SQL Server 2000 Enterprise Edition SP4 (x64) SQL Server 2005 Standard Edition with SP2 (x64) SQL Server 2005 Enterprise Edition with SP2 (x64)	Microsoft Office SharePoint Server 2007 Standard Edition (x64) Microsoft Office SharePoint Server 2007 Enterprise Edition (x64) Microsoft Office SharePoint Server 2007 Standard Edition with SP1 (x64) Microsoft Office SharePoint Server 2007 Enterprise Edition with SP1 (x64) Microsoft Windows SharePoint Services 3.0 (x64) Microsoft Windows SharePoint Services 3.0 SP1 (x64)

SnapManager for Microsoft Exchange

SnapManager 5.0 for Microsoft Exchange	6.0 (x64) 6.0.1 (x64) 6.0.2 (x64)	Windows Server 2003 EE (SP2 64-bit, x64); Windows Server 2003 SE (SP2 64-bit, x64); Windows Server 2003 R2 EE (SP2 64-bit, x64); Windows Server 2003 R2 SE (SP2 64-bit, x64)	Exchange Server 2007 SE (SP1 64-bit, x64); Exchange Server 2007 EE (SP2 64-bit, x64); Exchange Server 2007 SE (SP2 64-bit,x64); Exchange Server 2007 EE (SP1 64-bit, x64)	SnapManager for Exchange is not supported with FC RDM LUNs in the VMware ESX 3.5 Guest OS running Windows Server 2008.
	6.0 (x86) 6.0.1 (x86) 6.0.2 (x86)	Windows Server 2003 EE (SP2 32-bit, x86); Windows Server 2003 SE (SP2 32-bit, x86); Windows Server 2003 R2 EE (SP2 32-bit, x86); Windows Server 2003 R2 SE (SP232-bit, x86)	Exchange Server 2003 SE (SP2); Exchange Server 2003 EE (SP2)	
SnapManager 4.0 for Microsoft Exchange	6.0 (x64) 5.0 (x64) 4.2.1 (x64)	Windows Server 2003 Standard Edition with SP1 or SP2 (x64) Windows Server 2003 Enterprise Edition with SP1 or SP2 (x64) Windows Server 2003 R2 Standard Edition with SP2 (x64) Windows Server 2003 R2 Enterprise Edition with SP2 (x64) Windows Server 2003 R2 Standard Edition (x64) Windows Server 2003 R2 Enterprise Edition (x64)	Exchange Server 2007 Enterprise Edition (x64) with SP1 Exchange Server 2007 Standard Edition (x64) with SP1 Exchange Server 2007 Enterprise Edition (x64) Exchange Server 2007 Standard Edition (x64)	SnapManager 4.0 for Microsoft Exchange does not support Microsoft Exchange Server 5.5 and Microsoft Exchange Server 2000
	6.0 (x86) 5.0 (x86) 4.2.1 (x86)	Windows Server 2003 R2 Standard Edition (x86) Windows Server 2003 R2 Enterprise Edition (x86) Windows Server 2003 R2 Standard Edition with SP2 (x86) Windows Server 2003 R2 Enterprise Edition with SP2 (x86) Windows Server 2003 Enterprise Edition SP1 or SP2 (x86) Windows Server 2003 Standard Edition SP1 or SP2 (x86)	Exchange Server 2003 Enterprise Edition SP2 Exchange Server 2003 Standard Edition SP2	
SnapManager 3.2 for Microsoft Exchange	5.0 (x86) 4.2.1 (x86) 4.2 (x86) 4.1 (x86)	Windows Server 2003 R2 Standard Edition Windows Server 2003 R2 Enterprise Edition Windows Server 2003 R2 Standard Edition with SP2 Windows Server 2003 R2 Enterprise Edition with SP2 Windows Server 2003 Enterprise Edition SP1 or SP2 Windows Server 2003 Standard Edition SP1 or SP2	Exchange 2003 Enterprise Edition SP1 ,SP2 Exchange 2003 Standard Edition SP1, SP2	SnapManager 3.2 for Microsoft Exchange does not support Microsoft Exchange 5.5
	4.2.1 (x86) 4.2 (x86) 4.1 (x86)	Windows 2000 Server SP4 Windows 2000 Advanced Server SP4	Exchange 2000 Enterprise Edition SP3 Exchange 2000 Standard Edition SP3 Exchange 2003 Enterprise Edition, SP1, SP2 Exchange 2003 Standard Edition SP1, SP2	

| | | Windows Server 2003 R2 Standard Edition
Windows Server 2003 R2 Enterprise Edition
Windows Server 2003 R2 Standard Edition with SP2
Windows Server 2003 R2 Enterprise Edition with SP2
Windows Server 2003 Enterprise Edition SP1 or SP2
Windows Server 2003 Standard Edition SP1 or SP2 | Exchange 2003 Enterprise Edition SP1
,SP2
Exchange 2003 Standard Edition SP1, SP2 | |

SnapManager for Oracle

	Platform	Data ONTAP	SnapDrive	Operating System	Architecture	Database	Configurations and Protocols	Multipathing	ClusterWare
SnapManager for Oracle									
SnapManager 3.0 for Oracle	Windows (See Note 1, 12, and 13 below)	7.1H2 and later 7.2 7.3	6.0.1 5.0.1	Windows 2003 EE SP1 or SP2 Windows 2003 SE SP1 or SP2 Windows 2003 R2 EE SP1 or SP2 Windows 2003 R2 SE SP1 or SP2 Windows 2008 EE Windows 2008 SE Please refer to the SnapDrive for Windows Documentation for Microsoft hotfix requirements.	x86 x64	Oracle9i R2 Oracle Database 10g R2 Oracle Database 11g R1;	iSCSI (NTFS only) and FCP (NTFS only). Please refer to the SnapDrive for Windows Compatibility Matrix SnapManager is not supported on a Windows HyperV Guest OS (Child OS) at this time	iSCSI MS DSM Data ONTAP DSM 3.2R1	Not Supported (See Note 15 below)
	Linux (See Note 1, 3, 5, 7, 13 and 14 below)	7.1H2 and later 7.2 7.3	4.1	Red Hat Enterprise Linux 4(Update 6 and 7). Red Hat Enterprise Linux Server 5 (Update 1 and 2) SUSE Linux Enterprise Server 9 (SP3) SUSE Linux Enterprise Server 10 (SP1 and SP2) (See Note 11 below)	x86 x64 (AMD64, EM64T)	Oracle9i R2 (9.2.0.8) Oracle Database 10g R2 Oracle Database 11g R1 (NFS only or DNFS without RMAN	All the protocols supported by SnapDrive on that operating system. Please refer to the SnapDrive for UNIX Compatibility Matrix SnapManager is supported on Solaris Containers for NFS configuration only	Red Hat RHEL: Device Mapper (DM-MP) for FC	Oracle Clusterware
	Solaris (See Note 1, 2, 3, 5, 6, 14, 17 below)	7.1H2 and later 7.2 7.3	4.1 (See Note 4 below)	Solaris 9 (Update.9) Solaris 10 (Update 4 and 5)	SPARC	Oracle9i R2 (9.2.0.8) Oracle Database 10g R2	All the protocols supported by SnapDrive on that operating system. Please refer to the SnapDrive for UNIX Compatibility Matrix	Veritas Dynamic Multipathing (DMP). Please refer to the SnapDrive for UNIX Compatibility	Oracle Clusterware Veritas Storage Foundation Suite for Oracle RAC

								____. MPxIO for iSCSI not supported See Note 16 below)	(versions 4.1) Veritas Storage Foundation Suite for Oracle RAC (SFRAC) requires at least Oracle 9.2.0.8 (See Note 10, 13 below)
	HP-UX (See Note 1, 2, 3, 5, 14 below)	7.1H2 and later 7.2 7.3	4.1	HP-UX 11i v3 B.11.31 HP-UX 11i v2 B.11.23 Virtualization is supported with HP Virtual vPar	PA-RISC IA64	Oracle9i R2 (9.2.0.8) Oracle Database 10g R2	All the protocols supported by SnapDrive on that operating system. Please refer to the SnapDrive for UNIX Compatibility Matrix.	FC only: Veritas DMP 4.1 (MP1); Veritas DMP 5.0 (MP1 RP2) FC only: HP PVLinks	Oracle Clusterware Serviceguard Extension for Oracle RAC 9i 9 (See Note 13 below)
	AIX (See Note 1, 2, 3, 5, 6 and 14 below)	7.1H2 and later 7.2 7.3	4.1	AIX 5.2 AIX 5.3 (See Note 8 below)	PowerPC	Oracle9i R2 (9.2.0.8) Oracle Database 10g R2 Oracle Database 11g (R1); (NFS)	All the protocols supported by SnapDrive on that operating system. Please refer to the SnapDrive for UNIX Compatibility Matrix	Veritas DMP 4.0 (MP4); Veritas DMP 5.0 (MP1 RP3) AIX MPIO (See Note 7 below)	Oracle Clusterware; IBM HACMP 5.4; IBM HACMP 5.3; IBM HACMP 5.4 (5.4.1):AIX MPIO (See Note 13 below)

Additional Notes
1. SnapManager for Oracle works for all IBM N series storage systems (Filer and Gateway platforms) supported by Data ONTAP 7.x.
2. SnapManager for Oracle works for all configurations of Oracle database in the specified version. For example, Oracle 10g R2 support includes support for both standalone and clustered configurations with and without ASM. See the "Additional Configurations not supported" section below for ASM support details.
3. Oracle 10.2.0.0 or higher is required for any managed instance of Oracle 10g including the SMO Repository and Oracle 10G R2 with patchset 10.2.0.3 or higher is required for deploying RAC.
4. ASMLib is not mandatory for Linux platform.
5. Oracle10g R2 with patchset 10.2.0.3 or higher plus oracle patches 4693355 and 7330611 is required for deploying ASM on NFS & ASM on RAW. For oracle11g R1 with patchset 11.1.0.7 or higher plus oracle patch 7330611 is required for deploying ASM on NFS & ASM on RAW.

Minimum patchset 11.1.0.7 or higher required for oracle11g R1.

Mentioned patches can be downloaded from https://metalink.oracle.com
6. SMO supports DNFS without RMAN credentials set into SMO profile on a Oracle standalone NFS environment
7 ALUA is only supported for FC environments with Native MPIO and N series Storage running ONTAP version 7.2 and above with single image cfmode.
8. SnapManager for Oracle (SMO) is supported on AIX LPAR with dedicated HBA's assigned to LPAR . SMO is not supported on Virtual I/O Server (VIOS) on IBM AIX.
9. SnapManager's GUI supported only on Windows XP and Windows 2003 Server (32 bit) systems.
10. Veritas Storation Foundation Suite for Oracle RAC (SFRAC) requires at least Oracle 9.2.0.8
11 SnapManager for Oracle is supported on Linux (RHEL and SLES) Guest Operating Systems running on either VMware ESX 3.0.2 Update 1 and later or ESX 3.5 Update 1 & update 2 and later using NFS and iSCSI SW initiator.
12. SnapManager for Oracle (SMO) on Windows is supported on Guest OS only for VMware ESX 3.5 Update2 for both iSCSI and FibreChannel. VMware ESX 3.5 pdate 2 and later or ESXi 3.5 Update 2 and later is required to support W2K8 Guest OS (x86, x64) using RDM LUNs via FCP HBA or iSCSI SW initiator from within the Guest OS. SMO on Windows is supported on Guest OS only for MicroSoft Virtual Server2005R2 (SP1) for ISCSI protocol. See the SnapDrive for Windows Support Matrix for additional support details.

13. SnapManager for Oracle is not qualified to manage the backup/restore/recovery processes or cloning of Oracle Data Guard standby databases.
14. SnapManager is dependent on Operations Manager for RBAC (Role Based Access Control) support and on Protection Manager for Datasets support.
15. SnapManager operates within a Microsoft Clustering (MSCS) environment; however, SnapManager does not recognize an MSCS active/passive configuration and will not transfer active management of a repository to a standby server in an MSCS cluster.
16. ALUA is only supported on Solaris 10 Update 5 for FC and iSCSI environments with MPxIO multipathing and N series Storage running ONTAP version 7.2 and above with single image cfmode.
17. SnapManager is supported on Solaris Containers for NFS configuration only.

Additional Configurations not supported

Linux:
Reiser FS
Mulitpathing. PVR required
ASM with NFS

Solaris:
SFRAC 4.0
Sun Volume Manager for Solaris 8/9/10 FCP and iSCSI
VxDMP with ASM
MPxIO
Solaris Zoning

HP-UX:

AIX:

Windows:
IA64
RAC
ASM with any protocol

SnapManager 2.2 for Oracle	Windows (See Note 1, 2, 8, 15, 17 and 18 below)	7.1H2 and later 7.2 7.3	5.0	Windows 2003 SP1 or SP2 Windows 2003 R2 or SP2 Please refer to the SnapDrive for Windows Documentation for Microsoft hotfix requirements.	x86 x64	Oracle9i R2 Oracle Database 10g R2	iSCSI (NTFS only) and FCP (NTFS only). Please refer to the SnapDrive for Windows Compatibility Matrix	FCP: Data ONTAP DSM 3.1 for Windows MPIO ISCSI: Microsoft iSCSI DSM (2.0.3 or higher) Microsoft Multiple Connections Session (MCS)	Not Supported
	Linux (See Note 1, 2, 3, 6, 8, 9, 14, 15 and 17 below)	7.1H2 and later 7.2 7.3	3.0	Red Hat Enterprise Linux 4.0 (Update 2, 3 and 4) Red Hat Enterprise Linux 4.0 (Update 5) SUSE Linux Enterprise Server 9 (SP3) See Note 7 below.	x86 x64 (AMD64, EM64T)	Oracle9i R2 (9.2.0.8) Oracle Database 10g R2 Oracle Database 11g R1 (NFS only or DNFS without RMAN)	All the protocols supported by SnapDrive on that operating system. Please refer to the SnapDrive for UNIX Compatibility Matrix.	Not Supported. PVR required.	Oracle Clusterware

Solaris (See Note 1, 2, 5, 6, 9, 10, 14 and 15 below)	7.1H2 and later 7.2 7.3	3.0.	Solaris 8 Solaris 9 (Update.9) Solaris 10 (Update 1, 2, 3 and 4)	SPARC	Oracle9i R2 (9.2.0.8) Oracle Database 10g R2	All the protocols supported by SnapDrive on that operating system. Please refer to the SnapDrive for UNIX Compatibility Matrix.	Veritas Dynamic Multipathing (DMP). Please refer to the SnapDrive for UNIX Compatibility Matrix. MPxIO for iSCSI not supported.	Oracle Clusterware Veritas Storage Foundation Suite for Oracle RAC (versions 4.1) Sun ClusterWare (only supported with NFS datafiles and iSCSI quorum device)
HP-UX (See Note 1, 6, 7, 13, 14 and 15 below)	7.1H2 and later 7.2 7.3	3.0	HP-UX 11.11 HP-UX 11.23 Virtualization is supported with HP Virtual vPar	PA-RISC IA64	Oracle9i R2 (9.2.0.8) Oracle Database 10g R2	All the protocols supported by SnapDrive on that operating system. Please refer to the SnapDrive for UNIX Compatibility Matrix.	Not Supported.	Oracle Clusterware Serviceguard Extension for Oracle RAC 9i
AIX (See Note 1, 2, 4, 6, 8, 9, 11, 14 and 15 below)	7.1H2 and later 7.2 7.3	3.0	AIX 5.2 AIX 5.3 (See Note 12 below)	PowerPC	Oracle9i R2 (9.2.0.8) Oracle Database 10g R2	All the protocols supported by SnapDrive on that operating system. Please refer to the SnapDrive for UNIX Compatibility Matrix.	SANPath (version 4.0.5.10 or lower required) Native MPIO not supported. PVR required.	Oracle Clusterware

Additional Notes
1. SnapManager for Oracle works for all IBM N series storage systems (Filer and Gateway platforms) supported by Data ONTAP 7.x.
2. SnapManager for Oracle works for all configurations of Oracle database in the specified version. For example, Oracle 10g R2 support includes support for both standalone and clustered configurations with and without ASM. See the "Additional Configurations not supported" section below for ASM support details.
3. ASM on Linux requires ASMLib.
4. SnapManager's GUI supported only on Windows XP and Windows 2003 Server (32 bit) systems.
5. Veritas Storage Foundation Suite for Oracle RAC (SFRAC) requires at least Oracle 9.2.0.8
6. Oracle 10.2.0.0 or higher is required for any managed instance of Oracle 10g including the repository. Oracle version 10.2.0.3 or higher is required where Oracle RAC is deployed..
7. Oracle10g R2 with patchset 10.2.0.3 or higher plus oracle patches 4693355 and 7330611 is required for deploying ASM on NFS & ASM on RAW. For oracle11g R1 with patchset 11.1.0.7 or higher plus oracle patch 7330611 is required for deploying ASM on NFS & ASM on RAW.

Minimum patchset 11.1.0.7 or higher required for oracle11g R1.

Mentioned patches can be downloaded from https://metalink.oracle.com
7. Refer to N series Support site for support for RHEL 4 U2, U3, U4 or SUSE Linux Enterprise Server 9 (SP3) with SnapDrive for Unix 3.0
8. Java runtime environment version 1.5 or higher is required for SMO Client GUI
9. Multistore support with SnapDrive 3.0.x requires Data ONTAP 7.2.2 or higher
10. Java runtime environment version 1.5 or higher is required for SMO Client GUI and SMO 2.2 Webstart Client will not support Java 1.6 (or higher).
11. SANPath (version 4.0.5.10 or lower required)
12. Please refer to SnapDrive for Unix Interoperability Matrix for the actual AIX TL and ML releases supported.
13. SnapManager is dependent on Operations Manager for RBAC (Role Based Access Control) support and on Protection Manager for Datasets support.
14. SMO supports DNFS without RMAN credentials set into SMO profile on a Oracle standalone NFS environment.
15. SnapManager for Oracle is not qualified to manage the backup/restore/recovery processes or cloning of Oracle Data Guard standby databases.
16. SnapManager for Oracle is supported on RHEL, OEL and SLES Guest Operating Systems running on either VMware ESX 3.0.2 Update 1 and later or ESX 3.5

Update 1 and later using NFS and iSCSI SW initiator
17. To operate correctly in a Microsoft Clustered Services (MSCS) configuration, SMO requires Oracle Failsafe 3.4.1.
18. SnapManager for Oracle (SMO) on Windows is supported on Guest OS only for VMware ESX 3.5 Update2 for both iSCSI and FibreChannel. VMware ESX 3.5 Update 2 and later or ESXi 3.5 Update 2 and later is required to support W2K8 Guest OS (x86, x64) using RDM LUNs via FCP HBA or iSCSI SW initiator from within the Guest OS. SMO on Windows is supported on Guest OS only for MicroSoft Virtual Server2005R2 (SP1) for ISCSI protocol. See the SnapDrive for Windows Support Matrix for additional support details.

Additional Configurations not supported

Linux:
Reiser FS
Mulitpathing. PVR required
ASM with NFS

Solaris:
SFRAC 4.0
Sun Volume Manager for Solaris 8/9/10 FCP and iSCSI
VxDMP with ASM
MPxIO
Solaris Zoning
ASM with NFS or any multipathing solution

HP-UX:
ASM with any protocol
Multipathing

AIX:
ASM with any protocol
Veritas DMP
Native MPIO not supported. PVR required.

Windows:
IA64
RAC
ASM with any protocol
Virtualization (VMWare ESX or MicroSoft Virtual Server)

SnapManager 2.1 for Oracle	**Linux**	7.1H2 and later 7.2 7.3	2.2.1	Red Hat Enterprise Linux 3.0 (Update 4) Red Hat Enterprise Linux 3.0 (Update 5) Red Hat Enterprise Linux 4.0 (Update 2) Red Hat Enterprise Linux 4.0 (Update 3) SUSE Linux Enterprise Server 9 (SP3)	x86 x86-x64	Oracle9i R2 Oracle Database 10g R2	All the protocols supported by SnapDrive on that operating system. Please refer to the SnapDrive for UNIX Compatibility Matrix.		Oracle Clusterware

			3.0 (See Note 8 below)	Red Hat Enterprise Linux 3.0 (Update 4) Red Hat Enterprise Linux 3.0 (Update 5) Red Hat Enterprise Linux 4.0 (Update 2, 3 and 4) - See Note 7 below. Red Hat Enterprise Linux 4.0 (Update 5) SUSE Linux Enterprise Server 9 (SP3) - See Note 7 below.					
	Solaris	7.1H2 and later 7.2 7.3	2.2 3.0.1 (See Note 8)	Solaris 8 (5.8) Solaris 9 (5.9) Solaris 10 (Update 1 and 3)	SPARC	Oracle9i R2 Oracle Database 10g R2	All the protocols supported by SnapDrive on that operating system. Please refer to the SnapDrive for UNIX Compatibility Matrix..		Oracle Clusterware Veritas Storage Foundation Suite for Oracle RAC (versions 4.1) Sun ClusterWare (only supported with NFS datafiles and iSCSI quorum device)
	HP-UX	7.1H2 and later 7.2 7.3	2.2 3.0 (See Note 8 below)	HP-UX 11.11 HP-UX 11.23	PA-RISC	Oracle9i R2 (9.2.0.8) Oracle Database 10g R2	All the protocols supported by SnapDrive on that operating system. Please refer to the SnapDrive for UNIX Compatibility Matrix.		Oracle Clusterware
	AIX	7.1H2 and later 7.2 7.3	2.2 3.0 (See Note 8 below)	AIX 5.2 (See Note 9 below) AIX 5.3 (See Note 9 below)	PowerPC	Oracle9i R2 (9.2.0.8) Oracle Database 10g R2	See Note 9 below All the protocols supported by SnapDrive on that operating system. Please refer to the SnapDrive for UNIX Compatibility Matrix.		Oracle Clusterware

Additional Notes
1. SnapManager for Oracle works for all IBM N series storage systems (Filer and Gateway platforms) supported by Data ONTAP 7.x.
2. SMO supports DNFS without RMAN credentials set into SMO profile on a Oracle standalone NFS environment.
3. Oracle 10.2.0.0 or higher is required for any managed instance of Oracle 10g including the SMO Repository and Oracle 10G R2 with patchset 10.2.0.3 or higher is required for deploying RAC.
4. Oracle10g R2 with patchset 10.2.0.3 or higher plus oracle patches 4693355 and 7330611 is required for deploying ASM on NFS & ASM on RAW. For oracle11g R1 with patchset 11.1.0.7 or higher plus oracle patch 7330611 is required for deploying ASM on NFS & ASM on RAW.

Minimum patchset 11.1.0.7 or higher required for oracle11g R1.

Mentioned patches can be downloaded from https://metalink.oracle.com
5. ALUA is only supported for FC environments with Native MPIO and N series Storage running ONTAP version 7.2 and above with single image cfmode.
6. SnapManager for Oracle (SMO) is supported on AIX LPAR with dedicated HBA's assigned to LPAR . SMO is not supported on Virtual I/O Server (VIOS) on IBM AIX.
7. SnapManager for Oracle is not qualified to manage the backup/restore/recovery processes or cloning of Oracle Data Guard standby databases.
8. Snap Manager is dependent on Operations Manager for RBAC (Role Based Access Control) support and on Protection Manager for Datasets support.
9. Only SANPath is supported for AIX Multipathing. Version 4.0.5.10 or lower is supported.

Configurations not supported
Linux:
No 64-bit support for RHEL 3
Reiser FS

Solaris:
SFRAC 4.0
Sun Volume Manager for Solaris 8/9/10 FCP and iSCSI

HP-UX:
ASM
IA-64
All versions of Veritas VxFS, VxVM, DMP.

AIX:
ASM
All versions of Veritas VxFS, VxVM, DMP.
Native MPIO. Reference Public BURT 266963 for details.

SnapManager 2.0 for Oracle	Linux	7.1H2 and later 7.2 7.3	2.2.1 (Linux platform)	Red Hat Enterprise Linux 3.0 (Update 4) Red Hat Enterprise Linux 3.0 (Update 5) Red Hat Enterprise Linux 4.0 (Update 2) Red Hat Enterprise Linux 4.0 (Update 3) SLES 9 (SP3)	x86 x86-x64	Oracle9i R2 Oracle Database 10g R2	All the protocols supported by SnapDrive on that operating system. Please refer to the SnapDrive for UNIX Compatibility Matrix. In addition, SnapManager for Oracle supports the Oracle ASM filesystem and volume manager.		Oracle Clusterware
	Solaris	7.1H2 and later 7.2 7.3	2.2 (Solaris platform)	Solaris 8 (5.8) Solaris 9 (5.9) Solaris 10	SPARC	Oracle9i R2 Oracle Database 10g R2	All the protocols supported by SnapDrive on that operating system. Please refer to the SnapDrive for UNIX Compatibility Matrix. In addition, SnapManager for Oracle supports the Oracle ASM filesystem and volume manager.		Oracle Clusterware Veritas Storage Foundation Suite for Oracle RAC (versions 4.1) Sun ClusterWare (only supported with NFS datafiles and iSCSI quorum device)

Additional Notes

1. SnapManager for Oracle works for all IBM N series storage systems (Filer and Gateway platforms) supported by Data ONTAP 7.x.
2. SnapManager for Oracle works for all configurations of Oracle database in the specified version. For example, Oracle 10g R2 support includes support for both standalone and clustered configurations with and without ASM.
3. ASM support requires ASMLib.
4. SnapManager's GUI supported only on Windows XP system.

Configurations not supported
Linux:
No 64-bit support for RHEL 3
Reiser FS

Solaris:
SFRAC 4.0
Sun Volume Manager for Solaris 8/9/10 FCP and iSCSI

	Data ONTAP	SnapDrive	Operating System	Database	Configurations and Protocols	Host Agent	ClusterWare
SnapManager 1.1.1 for Oracle	7.1H2 and later 7.2 7.3	2.1 (Red Hat Enterprise Linux platform)	Red Hat Enterprise Linux 3.0 (Update 4)	Oracle9i R2 Oracle Database 10g R2	All the protocols supported by SnapDrive on that operating system. Please refer to the SnapDrive for UNIX Compatibility Matrix.	2.2.1	Oracle Clusterware
	7.1H2 and later 7.2 7.3	2.1 (Solaris platform)	Solaris 8 (5.8) Solaris 9 (5.9)	Oracle9i R2 Oracle Database 10g R2	All the protocols supported by SnapDrive on that operating system. Please refer to the SnapDrive for UNIX Compatibility Matrix.	2.2.1	Oracle Clusterware

Additional Notes

1. SnapManager for Oracle works for all IBM N series storage systems (Filer and Gateway platforms) supported by Data ONTAP 7.x.
2. SnapManager for Oracle works for all configurations of Oracle database in the specified version. For example, Oracle 10g R2 support includes support for both standalone and clustered configurations with and without ASM.
3. ASM support requires ASMLib Version 2.0.0 or 2.0.1.
4. SnapManager's GUI requires JRE 1.4.2.
5. SnapManager's GUI supported only on Windows XP system.

SnapManager for SAP

	Platform	Data ONTAP	SnapDrive	Operating System	Architecture	Database	Configurations and Protocols	Multipathing	ClusterWare
SnapManager for SAP									
SnapManager 3.0 for SAP	**Windows (See Notes 1, 2, 6, 11 and 12 below)**	7.1H2 and later 7.2 7.3	5.0.1 6.0.1	Windows 2003 EE SP1 or SP2 Windows 2003 SE SP1 or SP2 Windows 2003 R2 EE SP1 or SP2 Windows 2003 R2 SE SP1 or SP2 Windows 2008 EE Windows 2008 SE Please refer to the SnapDrive for Windows Documentation for Microsoft hotfix requirements.	x86 x64	Oracle9i R2 (9.2.0.8 or higher) Oracle Database 10g R2	FCP and iSCSI only	N series Data ONTAP DSM 3.2R1 Microsoft iSCSI DSM	N/A
	Linux (See Notes 1, 2, 5, 6, 7, 9 and 10 below)	7.1H2 and later 7.2 7.3	4.1	Red Hat Enterprise Linux 4(Update 6 and 7). Red Hat Enterprise Linux Server 5 (Update 1 and 2) SUSE Linux Enterprise Server 9 (SP3) SUSE Linux Enterprise Server 10 (SP1 and SP2) (See Note 9 below)	x86 x86-x64	Oracle9i R2 (9.2.0.8 or higher) Oracle Database 10g R2	NFS, FCP and iSCSI only	Red Hat only RHEL Device Mapper (DM-MP)	Oracle Clusterware
	Solaris (See Notes 1, 2, 3, 5, 6, 7 and 8 below)	7.1H2 and later 7.2 7.3	4.1	Solaris 9 update9 Solaris 10 (update4, update5)	SPARC	Oracle9i R2 (9.2.0.8 or higher) Oracle Database 10g R2	NFS, FCP and iSCSI only	Veritas Dynamic Multipathing (DMP). Please refer to the SnapDrive for UNIX Compatability Matrix.	Oracle Clusterware; Veritas SF Oracle RAC 4.1 (MP2); Veritas SF Oracle RAC 4.1 (MP1)

								Sun Traffic Mgr (MPxIO) for iSCSI	
HPUX (See Notes 1, 2, 5 and 7 below)	7.1H2 and later 7.2 7.3	4.1	HP-UX 11i v2; HP-UX 11i v3 Virtualization is supported with HP Virtual vPar	PA-RISC IA64	Oracle9i R2 (9.2.0.8 or higher) Oracle Database 10g R2	NFS, FCP and iSCSI only.	Veritas DMP 5.0 (MP1 RP2) Veritas DMP 4.1 (MP1) (HP-UX 11i v2) Please refer to the SnapDrive for UNIX Compatability Matrix HP PVLinks	HP Serviceguard A.11.17; (FC Only) HP Serviceguard A.11.18 (FC Only)
AIX (See Notes 1, 2, 3, 4, 5, 6 and 7 below)	7.1H2 and later 7.2 7.3	4.1	AIX 5.2 AIX 5.3	PowerPC	Oracle9i R2 (9.2.0.8 or higher) Oracle Database 10g R2	NFS, FCP and iSCSI only.	Veritas DMP 4.0 (MP4); Veritas DMP 5.0 (MP1 RP3) Please refer to the SnapDrive for UNIX Compatability Matrix AIX MPIO	IBM HACMP 5.4 (5.4.1): IBM HACMP 5.3

Additional Notes

1. SnapManager for SAP works for all IBM N series storage systems (Filer and Gateway platforms) supported by Data ONTAP 7.x..
2. SnapManager for SAP supports SAP BR*Tools 7.0 with Oracle 10g and 6.4 with Oracle 9i.
3. ALUA is only supported for FC environments with Native MPIO and N series Storage running ONTAP version 7.2 and above with single image cfmode.
4. SnapManager for SAP (SMSAP) is supported on AIX LPAR with dedicated HBA's assigned to LPAR. SMSAP is not supported on Virtual I/O Server (VIOS) on IBM AIX.
5. Oracle 10.2.0.0 or higher is required for any managed instance of Oracle 10g including the repository.
6. SnapManager for SAP is not qualified to manage the backup/restore/recovery processes or cloning of Oracle Data Guard standby databases.
7. Snap Manager is dependent on Operations Manager for RBAC (Role Based Access Control) support and on Protection Manager for Datasets support.
8. SnapManager is supported on Solaris Containers for NFS configuration only.
9. SnapManager for SAP is supported on Linux (RHEL and SLES) Guest Operating Systems running on either VMware ESX 3.0.2 Update 1 and later or ESX 3.5 Update 1 & update 2 and later using NFS and iSCSI SW initiator.
10. ext3 filesystem on raw LUN is not supported on RHEL 5.x/OEL 5.x with DM-M
11. SnapManager for SAP (SMSAP) on Windows is supported on Guest OS only for VMware ESX 3.5 Update1 & Update2 for both iSCSI and FibreChannel. SMO on Windows is supported on Guest OS only for Microsoft Virtual Server2005R2 (SP1) for ISCSI protocol. See the SnapDrive for Windows Support Matrix for additional support details.
12. VMware ESX 3.5 Update 2 and later or ESXi 3.5 Update 2 and later is required to support W2K8 Guest OS (x86, x64) using RDM LUNs via FCP HBA or iSCSI SW initiator from within the Guest OS.

	Configurations not supported **Linux:** **Solaris:** **HP-UX:** **AIX:** **Windows:** IA64 RAC ASM with any protocol Windows HyperV Guest OS (Child OS)								
SnapManager 1.1 for SAP	**Solaris**	7.1H2 and later 7.2 7.3	4.0 & 3.0.1 (See Note 4 below)	Solaris 8 Solaris 9 update9 Solaris 10 (update1, update2, update3, update4);	SPARC	Oracle9i R2 (9.2.0.8 or higher) Oracle Database 10g R2	NFS, FCP and iSCSI only.	Veritas Dynamic Multipathing (DMP). Please refer to the SnapDrive for UNIX Compatability Matrix. Sun Traffic Mgr (MPxIO) for iSCSI	Not Supported
	HPUX	7.1H2 and later 7.2 7.3	4.0 & 3.0 (See Note 4 below)	HP-UX 11i v1; HP-UX 11i v2	PA-RISC IA64	Oracle9i R2 (9.2.0.8 or higher) Oracle Database 10g R2	NFS, FCP and iSCSI only.	Veritas DMP 5.0 (MP1 RP1) (PA-RISC & HP-UX 11i v2) Veritas DMP 4.1 (MP1) (HP-UX 11i v2) HP PVLinks	Not Supported
	AIX	7.1H2 and later 7.2 7.3	4.0 & 3.0 (See Note 4 below)	AIX 5.2 AIX 5.3	PowerPC	Oracle9i R2 (9.2.0.8 or higher) Oracle Database 10g R2	NFS, FCP and iSCSI only.	Veritas DMP 4.0 (MP4); Veritas DMP 5.0 (MP1 RP3) (SnapDrive 4.0 only) SANPath (version 4.0.5.10 or lower required) Native MPIO not supported. PVR required.	IBM HACMP 5.4 5.4.1; IBM HACMP 5.3; IBM HACMP 5.2 Not Supported on SnapDrive 3.0

Additional Notes
1. SnapManager for SAP works for all IBM N series storage systems (Filer and Gateway platforms) supported by Data ONTAP 7.x..
2. SnapManager's GUI supported only on Windows XP and Windows 2003 Server (32 bit) systems.
3. SnapManager for SAP supports SAP BR*Tools 7.0 with Oracle 10g and 6.4 with Oracle 9i.
4. Multistore support with SnapDrive 3.0.x requires Data ONTAP 7.2.2 or higher.
5. Java runtime environment version 1.5 or higher is required for SMSAP Client GUI

Configurations not supported

Solaris:
Solaris Zoning
ASM, RAC or RMAN configurations

Solaris:
ASM, RAC or RMAN configurations

Solaris:
ASM, RAC or RMAN configurations

SnapManager 1.0 for SAP	Solaris	7.1H2 and later 7.2	2.2 (Solaris Platform)	Solaris 9 (5.9) Solaris 10	SPARC	Oracle9i R2 Oracle Database 10g R2	NFS and FCP only. Please refer to the SnapDrive for UNIX Compatibility Matrix.	Veritas Dynamic Multipathing (DMP). Please refer to the SnapDrive for UNIX Compatability Matrix. MPxIO for iSCSI not supported.	Not Supported

Additional Notes

1. SnapManager for SAP works for all IBM N series storage systems (Filer and Gateway platforms) supported by Data ONTAP 7.x.
2. SnapManager's GUI supported only on Windows XP and Windows 2003 Server (32 bit) systems.
3. Oracle 10.2.0.3 is the recommended patch level for Oracle installs.
4. SnapManager for SAP supports SAP BR*Tools 7.0 with Oracle 10 and 6.4 with Oracle 9.

Configurations not supported

No support for **Liux**, **AIX** or **HP-UX**.

No support for **Oracle ASM**, **RAC** or **RMAN** configurations.

Solaris:
SFRAC 4.0
Sun Volume Manager for Solaris 9/10 FCP and iSCSI
Solaris 10 FCP (not supported except Emulex and VxVM & VxFS in SDU 2.2)

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