



Product Bulletin: SnapManager for Hyper-V

Revision History

13 November 2009 - Initial version

17 December 2009 – New SMHV part available for existing customers that purchased Application pack, Server pack or all 3 bundles prior to the December release

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This product bulletin informs NetApp sales and NetApp partners about new or changed NetApp® products or services.

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1. Summary

This product bulletin announces the availability of first customer ship of SnapManager® v1.0 for Hyper-V for Microsoft Hyper-V environments. SnapManager for Hyper-V (SMHV) is a management software product that simplifies and automates server storage management in a Microsoft Hyper-V environment.

SnapManager for Hyper-V is targeted at Windows server and Windows Hyper-V administrators.

SnapManager v1.0 for Hyper-V is a host-based software solution that provides:

- Simplified, automated backup, restores, and replication of virtual machines (VMs)
- Increased operational efficiency with built-in backup scheduler and policy-based retention
- Simplified user experience for users familiar with MMC (Microsoft Management Console) interface
- Support across Fibre Channel and iSCSI protocols

SnapManager for Hyper-V runs on Windows® server platforms. Check the compatibility matrix for details.

2. What's New?

SnapManager v1.0 for Hyper-V is a new product and includes the following value-add features:

Backup Management and Replication

- Ability to instantaneously backup and restore virtual machines
- Delivers replication of consistent Snapshot™ copies using SnapMirror®

Increased Operational Efficiency

- Ability to schedule backups: hourly, daily, weekly, or monthly
- Ability to create retention policies of backups to match customer needs
- Ability to receive automated e-mail notifications with job status

High Availability

- Supports CSV(Clustered Shared Volume in WS08 R2) and Standard Cluster Volumes

Management Interface and Other Value-Add Features

- Intuitive, easy-to-use interface based on MMC v3.0
- Manage multiple remote Hyper-V hosts
- Automated discovery of new, unprotected VMs
- Alert notifications through e-mail
- Pre/Post script support (before and after backup/restore is triggered)
- Extensive reporting for backups, restores and configurations
- CLI and Powershell API

3. Sales and Customer Ready Tools (Training, SE, Customer Presentations, Datasheets, Sales Guides)

Product collaterals is available on Field portal - [NetApp Partners](#)

NetApp Solutions for Microsoft Virtualized Environments PPT

- SMHV Customer Presentation
- SMHV SE Training Presentation
- SMHV FAQ
- Hyper-V Field Readiness Guide
- SMHV Demo
- Collateral and other sales tools are available in the Hyper-V Binder on the NetApp Field Portal.

4. System Requirements

Please refer to the Interoperability Matrix on NOW™ (NetApp on Web) for updated and additional details on supported platforms

SnapManager for Hyper-V	Host OS	Guest OS support	Data ONTAP	SnapDrive for Windows (required for SMHV)
SnapManager for Hyper-V 1.0 (64-bit, x64)	Microsoft Hyper-V Server 2008 R2 (64-bit, x64); Microsoft Windows Server 2008 R2 DCE (64-bit, x64); Microsoft Windows Server 2008 R2 EE (64-bit, x64); Microsoft Windows Server 2008 R2 SE (64-bit, x64)	Microsoft Windows Server 2003 EE (SP2 32 bit); Microsoft Windows Server 2003 EE (SP2 64 bit); Microsoft Windows Server 2003 R2 EE (SP2 32-bit, x86); Microsoft Windows Server 2003 R2 EE (SP2 64-bit, X64); Microsoft Windows Server 2003 R2 SE (SP2 32-bit, x86); Microsoft Windows Server 2003 R2 SE (SP2 64-bit, x64); Microsoft Windows Server 2003 SE (SP2 32 bit); Microsoft Windows Server 2003 SE (SP2 64-bit, x64); Microsoft Windows Server 2008 EE (64bit, x64); Microsoft Windows Server 2008 EE (Base 64-bit); Microsoft Windows Server 2008 EE (SP2 64-bit, x64); Microsoft Windows Server 2008 R2 EE 64-bit, x64; Microsoft Windows Server 2008 R2 SE (64-bit, x64); Microsoft Windows Server 2008 SE (64bit, x64); Microsoft Windows Server 2008 SE (Base 64-bit); Microsoft Windows Server 2008 SE (SP2 64-bit, x64); Microsoft Windows Vista® Bus (SP1 32-bit, x86); Microsoft Windows Vista Bus (SP1 64-bit, x64);	NetApp Data ONTAP 7.3 (7.3.1.1 or later) NetApp Data ONTAP 7.3 (7.3.1.1L1 or later) NetApp Data ONTAP 7.3 (7.3.1P1 or later) NetApp Data ONTAP 7.3 (7.3.2 or later); NetApp Data ONTAP 8.0 (8.0 or later)	SnapDrive 6.2 (or later) for Windows (64-bit, x64)

		Microsoft Windows Vista Business (SP2 32-bit, x86); Microsoft Windows Vista Business (SP2 64-bit, x64); Microsoft Windows Vista Enterprise (SP1 32-bit, x86); Microsoft Windows Vista Enterprise (SP1 64-bit, x64); Microsoft Windows Vista Enterprise (SP2 32-bit, x86); Microsoft Windows Vista Enterprise (SP2 64-bit, x64); Microsoft Windows Vista Ultimate (SP1 32-bit, x86); Microsoft Windows Vista Ultimate (SP1 64-bit, x64); Microsoft Windows Vista Ultimate (SP2 32-bit, x86); Microsoft Windows Vista Ultimate (SP2 64-bit, x64); Microsoft Windows XP Pro; Microsoft Windows XP Pro (SP2 32 bit); Microsoft Windows XP Pro (SP2 64-bit); Microsoft Windows XP Pro (SP3 32-bit, x86); Novell SUSE SLES (32-bit) 10 (SP1); Novell SUSE SLES (32-bit) 10 (SP2); Novell SUSE SLES (64-bit) 10 (SP1); Novell SUSE SLES (64-bit) 10 (SP2)		
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SnapManager for Hyper-V Client (SMHV Client) Versions Supported:

- SnapManager for Hyper-V 1.0 (32-bit, x86)
- SnapManager for Hyper-V 1.0 (64-bit, x64)

SMHV Client (Remote Management) Runs on Various Windows Operating Systems:

- Microsoft Windows Server 2003 EE (SP2 32-bit, x86)
- Microsoft Windows Server 2003 EE (SP2 64-bit, x64)
- Microsoft Windows Server 2003 R2 EE (SP2 32-bit, x86)
- Microsoft Windows Server 2003 R2 EE (SP2 64-bit, x64)
- Microsoft Windows Server 2003 R2 SE (SP2 32-bit, x86)
- Microsoft Windows Server 2003 R2 SE (SP2 64-bit, x64)
- Microsoft Windows Server 2003 SE (SP2 32-bit, x86)
- Microsoft Windows Server 2003 SE (SP2 64-bit, x64)
- Microsoft Windows Server 2008 EE (64-bit, x64)
- Microsoft Windows Server 2008 EE (SP2 64-bit, x64)
- Microsoft Windows Server 2008 R2 DCE (64-bit, x64)
- Microsoft Windows Server 2008 R2 EE (64-bit, x64)
- Microsoft Windows Server 2008 R2 SE (64-bit, x64)
- Microsoft Windows Server 2008 SE (64-bit, x64)
- Microsoft Windows Server 2008 SE (SP2 64-bit, x64)
- Microsoft Windows Vista Business (SP2 32-bit, x86)
- Microsoft Windows Vista Enterprise (SP2 32-bit, x86)
- Microsoft Windows Vista Ultimate (SP2 32-bit, x86)

Notes:

1. Multistore[®] (vfiler) Data ONTAP version required for SnapManager for Hyper-V support:
 - 7.3.1.1P8 or later
 - 7.3.2P1 or later
 - 7.3.3 or later
 - 8.0P1 or later
2. Guest OS on MBR LUN on CSV:
 - SnapManager for Hyper-V does not support MBR LUNs for virtual machines running on CSV
3. SnapManager for Hyper-V requires SnapDrive for Windows to be installed on the same host OS (parent)
4. For Storage side license (license type: per Storage System) requires Data ONTAP 7.3.1P1 or later.

5. Product Information

SnapManager for Hyper-V(SMHV) can be licensed based on either Windows host or FAS storage controllers. SMHV

will also be available in software packs (server and application packs) and software NetApp Select™ bundles starting in December 2009.

Please note that the following packs and bundles will include SnapManager for Hyper-V software:

- FAS2000 Software packs(Server Pack or Application Pack)
- FAS/V-Series NetApp Select bundles (Windows, Server Virtualization and Complete Bundles)

Customers and partners who have already purchased FAS2000 software packs and FAS/Vseries NetApp select bundles prior to 12 December 2009, are entitled to obtain SnapManager for Hyper-V at no cost.

SMHV requires the following products in the environment

- SnapDrive 6.2 for Windows or later
- SnapRestore®
- SnapMirror license (optional)
- FlexClone® license (optional)

Part Number	Product Description	Discount Category
SW-SMHV-MSFT	SnapManager for Hyper-V SW	J
SW-SSP-SMHV-MSFT	SW Subs,SnapManager for Hyper-V	S
SW-T1-SMHV-MSFT-C	SnapManager for Hyper-V SW,T1,-C	J
SW-T2-SMHV-MSFT-C	SnapManager for Hyper-V SW,T2,-C	J
SW-T3-SMHV-MSFT-C	SnapManager for Hyper-V SW,T3,-C	J
SW-T4-SMHV-MSFT-C	SnapManager for Hyper-V SW,T4,-C	J
SW-T5-SMHV-MSFT-C	SnapManager for Hyper-V SW,T5,-C	J
SW-T6-SMHV-MSFT-C	SnapManager for Hyper-V SW,T6,-C	J
SW-T7-SMHV-MSFT-C	SnapManager for Hyper-V SW,T7,-C	J
SW-T1C-SMHV-MSFT-C	SnapManager for Hyper-V SW,T1C,-C	J
SW-T2C-SMHV-MSFT-C	SnapManager for Hyper-V SW,T2C,-C	J
SW-T3C-SMHV-MSFT-C	SnapManager for Hyper-V SW,T3C,-C	J
SW-T4C-SMHV-MSFT-C	SnapManager for Hyper-V SW,T4C,-C	J
SW-T5C-SMHV-MSFT-C	SnapManager for Hyper-V SW,T5C,-C	J
SW-T6C-SMHV-MSFT-C	SnapManager for Hyper-V SW,T6C,-C	J
SW-T7C-SMHV-MSFT-C	SnapManager for Hyper-V SW,T7C,-C	J
SW-T1-SMHV-MSFT	SnapManager for Hyper-V SW,T1	J
SW-T1C-SMHV-MSFT	SnapManager for Hyper-V SW,T1C	J
SW-T2-SMHV-MSFT	SnapManager for Hyper-V SW,T2	J
SW-T2C-SMHV-MSFT	SnapManager for Hyper-V SW,T2C	J
SW-T3-SMHV-MSFT	SnapManager for Hyper-V SW,T3	J
SW-T3C-SMHV-MSFT	SnapManager for Hyper-V SW,T3C	J
SW-T4-SMHV-MSFT	SnapManager for Hyper-V SW,T4	J
SW-T4C-SMHV-MSFT	SnapManager for Hyper-V SW,T4C	J
SW-T5-SMHV-MSFT	SnapManager for Hyper-V SW,T5	J
SW-T5C-SMHV-MSFT	SnapManager for Hyper-V SW,T5C	J
SW-T6-SMHV-MSFT	SnapManager for Hyper-V SW,T6	J
SW-T6C-SMHV-MSFT	SnapManager for Hyper-V SW,T6C	J
SW-T7-SMHV-MSFT	SnapManager for Hyper-V SW,T7	J
SW-T7C-SMHV-MSFT	SnapManager for Hyper-V SW,T7C	J
SW-R200-SMHV-BASE	SnapManager for Hyper-V,R200,Base	J
SW-R200-SMHV-8-EXP	SnapManager for Hyper-V,R200,EXP, 8TB	J
SW-R200-SMHV-10.5-EXP	SnapManager for Hyper-V,R200,EXP,10.5TB	J
SW-R200-SMHV-14-EXP	SnapManager for Hyper-V,R200,EXP,14TB	J
SW-SMHV-MSFT-INC	SnapManager for Hyper-V SW,INC	J
SW-SMHV-MSFT-TOT	SnapManager for Hyper-V SW,TOT	J
SW-T1C-SMHV-CM	SW,SnapManager for HV,COMP,T1C	J
SW-T1C-SMHV-CM-C	SW,SnapManager for HV,COMP,T1C,-C	J
SW-T1-SMHV-CM	SW,SnapManager for HV,COMP,T1	J
SW-T1-SMHV-CM-C	SW,SnapManager for HV,COMP,T1,-C	J

SW-T2C-SMHV-CM	SW,SnapManager for HV,COMP,T2C	J
SW-T2C-SMHV-CM-C	SW,SnapManager for HV,COMP,T2C,-C	J
SW-T2-SMHV-CM	SW,SnapManager for HV,COMP,T2	J
SW-T2-SMHV-CM-C	SW,SnapManager for HV,COMP,T2,-C	J
SW-T3C-SMHV-CM	SW,SnapManager for HV,COMP,T3C	J
SW-T3C-SMHV-CM-C	SW,SnapManager for HV,COMP,T3C,-C	J
SW-T3-SMHV-CM	SW,SnapManager for HV,COMP,T3	J
SW-T3-SMHV-CM-C	SW,SnapManager for HV,COMP,T3,-C	J
SW-T4C-SMHV-CM	SW,SnapManager for HV,COMP,T4C	J
SW-T4C-SMHV-CM-C	SW,SnapManager for HV,COMP,T4C,-C	J
SW-T4-SMHV-CM	SW,SnapManager for HV,COMP,T4	J
SW-T4-SMHV-CM-C	SW,SnapManager for HV,COMP,T4,-C	J
SW-T5C-SMHV-CM	SW,SnapManager for HV,COMP,T5C	J
SW-T5C-SMHV-CM-C	SW,SnapManager for HV,COMP,T5C,-C	J
SW-T5-SMHV-CM	SW,SnapManager for HV,COMP,T5	J
SW-T5-SMHV-CM-C	SW,SnapManager for HV,COMP,T5,-C	J
SW-2040-SMHV-CM-C	SW,SnapManager for HV,COMP,2040-C	J
SW-2040A-SMHV-CM-C	SW,SnapManager for HV,COMP,2040A-C	J
SW-2040-SMHV-CM	SW,SnapManager for HV,COMP,2040	J
SW-2040A-SMHV-CM	SW,SnapManager for HV,COMP,2040A	J
SW-T1C-SMHV-V	SW,SnapManager for HV,VRTL,T1C	J
SW-T1C-SMHV-V-C	SW,SnapManager for HV,VRTL,T1C,-C	J
SW-T1-SMHV-V	SW,SnapManager for HV,VRTL,T1	J
SW-T1-SMHV-V-C	SW,SnapManager for HV,VRTL,T1,-C	J
SW-T2C-SMHV-V	SW,SnapManager for HV,VRTL,T2C	J
SW-T2C-SMHV-V-C	SW,SnapManager for HV,VRTL,T2C,-C	J
SW-T2-SMHV-V	SW,SnapManager for HV,VRTL,T2	J
SW-T2-SMHV-V-C	SW,SnapManager for HV,VRTL,T2,-C	J
SW-T3C-SMHV-V	SW,SnapManager for HV,VRTL,T3C	J
SW-T3C-SMHV-V-C	SW,SnapManager for HV,VRTL,T3C,-C	J
SW-T3-SMHV-V	SW,SnapManager for HV,VRTL,T3	J
SW-T3-SMHV-V-C	SW,SnapManager for HV,VRTL,T3,-C	J
SW-T4C-SMHV-V	SW,SnapManager for HV,VRTL,T4C	J
SW-T4C-SMHV-V-C	SW,SnapManager for HV,VRTL,T4C,-C	J
SW-T4-SMHV-V	SW,SnapManager for HV,VRTL,T4	J
SW-T4-SMHV-V-C	SW,SnapManager for HV,VRTL,T4,-C	J
SW-T5C-SMHV-V	SW,SnapManager for HV,VRTL,T5C	J
SW-T5C-SMHV-V-C	SW,SnapManager for HV,VRTL,T5C,-C	J
SW-T5-SMHV-V	SW,SnapManager for HV,VRTL,T5	J
SW-T5-SMHV-V-C	SW,SnapManager for HV,VRTL,T5,-C	J
SW-2040-SMHV-V-C	SW,SnapManager for HV,VRTL,2040,-C	J
SW-2040A-SMHV-V-C	SW,SnapManager for HV,VRTL,2040A,-C	J
SW-2040-SMHV-V	SW,SnapManager for HV,VRTL,2040	J
SW-2040A-SMHV-V	SW,SnapManager for HV,VRTL,2040A	J
SW-T1C-SMHV-W	SW,SnapManager for HV,WIN,T1C	J
SW-T1C-SMHV-W-C	SW,SnapManager for HV,WIN,T1C,-C	J
SW-T1-SMHV-W	SW,SnapManager for HV,WIN,T1	J
SW-T1-SMHV-W-C	SW,SnapManager for HV,WIN,T1,-C	J
SW-T2C-SMHV-W	SW,SnapManager for HV,WIN,T2C	J
SW-T2C-SMHV-W-C	SW,SnapManager for HV,WIN,T2C,-C	J
SW-T2-SMHV-W	SW,SnapManager for HV,WIN,T2	J
SW-T2-SMHV-W-C	SW,SnapManager for HV,WIN,T2,-C	J
SW-T3C-SMHV-W	SW,SnapManager for HV,WIN,T3C	J
SW-T3C-SMHV-W-C	SW,SnapManager for HV,WIN,T3C,-C	J
SW-T3-SMHV-W	SW,SnapManager for HV,WIN,T3	J
SW-T3-SMHV-W-C	SW,SnapManager for HV,WIN,T3,-C	J
SW-T4C-SMHV-W	SW,SnapManager for HV,WIN,T4C	J
SW-T4C-SMHV-W-C	SW,SnapManager for HV,WIN,T4C,-C	J
SW-T4-SMHV-W	SW,SnapManager for HV,WIN,T4	J
SW-T4-SMHV-W-C	SW,SnapManager for HV,WIN,T4,-C	J
SW-T5C-SMHV-W	SW,SnapManager for HV,WIN,T5C	J
SW-T5C-SMHV-W-C	SW,SnapManager for HV,WIN,T5C,-C	J
SW-T5-SMHV-W	SW,SnapManager for HV,WIN,T5	J
SW-T5-SMHV-W-C	SW,SnapManager for HV,WIN,T5,-C	J
SW-2040-SMHV-W	SW,SnapManager for HV,WIN,2040	J

SW-2040A-SMHV-W	SW,SnapManager for HV,WIN,2040A	J
SW-2040-SMHV-W-C	SW,SnapManager for HV,WIN,2040,-C	J
SW-2040A-SMHV-W-C	SW,SnapManager for HV,WIN,2040A,-C	J
SW-T1C-SMHV-PK	SW,SnapManager for HV,PK,T1C	J
SW-T1C-SMHV-PK-C	SW,SnapManager for HV,PK,T1C,-C	J
SW-T1-SMHV-PK	SW,SnapManager for HV,PK,T1	J
SW-T1-SMHV-PK-C	SW,SnapManager for HV,PK,T1,-C	J
SW-T2C-SMHV-PK	SW,SnapManager for HV,PK,T2C	J
SW-T2C-SMHV-PK-C	SW,SnapManager for HV,PK,T2C,-C	J
SW-T2-SMHV-PK	SW,SnapManager for HV,PK,T2	J
SW-T2-SMHV-PK-C	SW,SnapManager for HV,PK,T2,-C	J
SW-2040-SMHV-PK-C	SW,SnapManager for HV,PK,2040,-C	J
SW-2040A-SMHV-PK-C	SW,SnapManager for HV,PK,2040A,-C	J
SW-2040-SMHV-PK	SW,SnapManager for HV,PK,2040	J
SW-2040A-SMHV-PK	SW,SnapManager for HV,PK,2040A	J
SW-TX-SMHV-MSFT	SW,SnapManager for Hyper-V,Upgrade	J

Software Subscription Plans

The following table lists the SSP part numbers as of the date of this product bulletin. Partners should contact their channel representative for pricing information.

Part Number	Description	Discount Category Code
SW-SSP-SMHV-MSFT	SW Subs,SnapManager for Hyper-V	J

Downloading

For downloading software go to
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Product Availability

SMHV will be available to quote in the December release of the Quote Tool.

6. Regulatory Compliance

Products need to be validated against the NetApp Safety/EMI Regulatory Compliance List prior to order submission. This is required to ensure that products are being sold only in the countries in which NetApp has received regulatory compliance certification. This information can be found in the Field Portal by searching under "Compliance, Policies and Procedures" or following the links below:

- [RoHS Compliance](#)
- [Safety/EMI Regulatory Compliance \(XLS\)](#)
- [WEEE Compliance](#)

7. Warranty and Service

Standard software warranty and services apply

8. Additional Information

Contact Information: Please contact your NetApp sales or channel partner representative with questions concerning this bulletin.

