



Product Bulletin:

Virtual Storage Console (VSC) 2.0

Revision History

22 July 2010 - Initial version

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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

NetApp Virtual Storage Console 2.0 integrates VSC storage discovery, health monitoring, capacity management, and best practice–based storage setting with additional management capabilities via two capability options in a single vSphere™ client plug-in, enabling centralized, end-to-end management of virtual server and desktop environments running on NetApp storage.

- *Virtual Storage Console Capability* (base product) provides a storage view of the VMware® environment with a VM administrator perspective. It automatically optimizes the customer's host and storage configurations, including HBA timeouts, NFS tunables, and multipath configurations. Using the Virtual Storage Console, a VM administrator can quickly and easily view controller status and capacity information, as well as accurately report back utilization information in order to make more informed decisions about VM object placement.
- *Provisioning and Cloning Capability* (formerly NetApp Rapid Cloning Utility) provides end-to-end datastore management—provisioning, resizing, and deletion—and rapid, space-efficient VM server and desktop cloning, patching, and updating by utilizing NetApp FlexClone® technology.
- *Backup and Recovery Capability* (formerly NetApp SnapManager® for Virtual Infrastructure) automates data protection processes by enabling the VMware administrators to centrally manage backup and recovery of datastores and VMs without impacting guest performance, and rapidly recover from these backup copies at any level of granularity—datastore, VM, VMDK, or guest file.

VSC 2.0, which is designed to simplify storage management operations, improve efficiencies, enhance availability, and reduce storage costs in both SAN- and NAS-based VMware infrastructures, provides VMware administrators with a window into the storage domain and the tools to effectively and efficiently manage the lifecycle of virtual server and desktop environments running on NetApp storage.

2. What's New?

New Virtual Storage Console features:

- ESX Cluster support

- MultiStore® (vFiler® unit) support
- Updated mbrtools supporting drive letter restoration
- New script to set timeouts for Solaris™ guest operating systems
- Enhanced storage views
- Single-click, consolidated log export capability (data collection)
- Option to configure the number of hosts discovered simultaneously

New Provisioning and Cloning features:

Note: Features flagged with (NEW) indicate that they are additions to those features included in RCU 3.0.

- Cloning of entire datastores or individual virtual machines
- Creation, resizing, and deletion of datastores
- Application of guest customization specifications to virtual machines
- Powering up of virtual machines
- Initiation of deduplication operations
- Monitoring of storage savings
- Redeployment of virtual machines from a baseline image
- Importing virtual machines into Virtual Desktop Infrastructure connection brokers and management tools
- Raising of a vCenter™ Server alert when a VM source is misaligned
- Ability to create clones in designated VM folders
- vApp Support (i.e., clone within a vApp)
- MultiStore (vFiler) support (requires Data ONTAP® 7.3.3)
- RBAC support for storage controller and vCenter
- Creation of volume container for new VMFS datastores (NEW)
- Access to NFS datastores that were exported using the actual option
- vSphere 4.0/4.1 support (no support for vCenter 2.5 and earlier—see RCU 2.1)
- ESX 4.0/4.1 NFS (clone, provision, destroy)
- ESX 4.0/4.1 VMFS (clone, provision, destroy, pathing)
- ESX 3.5, 4.0, and 4.1 mixed destination (cluster/data center)
- Data ONTAP 7.3.2, 7.3.3, and 8.0 7-Mode support

New Backup and Recovery features:

Note: Features flagged with (NEW) indicate that they are additions to those features included in SMVI 2.0.

- Backup of datastores and VMs
- Single wizard for creating manual and scheduled backup jobs
- Per-backup job options:
 - o Exclude datastores from backup
 - o Include independent disks in backups
 - o Trigger pre/post /failure scripts during backup process
 - o Update existing SnapMirror® relationship post backup
- Consistent backup naming
- Serialization of VMware snapshots
- Restore at any level of granularity: datastore, VM, VMDK, and guest file (SFR)
- Mounting and unmounting of backups
- ASUP logging

- vFiler unit support for multiple IP addresses
- Advanced Find option for finding specific backups
- EMS events for backup, restore, mount, SFR, and VDISK API mount (NEW)

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

For sales- and customer-ready tools, please visit the new Virtual Storage Console product homepage at <http://www.netapp.com/us/products/management-software/vsc/virtual-storage-console.html>.

4. System Requirements

Virtual Storage Console supports:

- FC, iSCSI, and NFS
- All FAS, V-Series, and N-Series
- Data ONTAP 7.3 and 8.0 7-Mode
- VMware vCenter Server 4.0 and 4.0 Update1
- ESX / ESXi 3.5 and 4.0

Please refer to the Virtual Storage Console storage solution on the NOW™ (NetApp on the Web) **NetApp Interoperability Matrix** for the latest detailed requirements and supported configurations.

Note: Make sure to pay attention to the IMT footnotes.

5. Product Information

Virtual Storage Console consists of three distinct capabilities:

- Virtual Storage Console
- Provisioning and Cloning
- Backup and Recovery

The **Virtual Storage Console**—the “foundation”—capability, which provides storage discovery, health monitoring, capacity management, and best practice–based storage setting, is always installed. The other two capabilities are optional and can be selected by the customer during the installation process.

- **Provisioning and Cloning** capability (formerly NetApp Rapid Cloning Utility) provides end-to-end datastore management—provisioning, resizing, and deletion—and rapid, space-efficient VM server and desktop cloning, patching, and updating by utilizing NetApp FlexClone technology.
- **Backup and Recovery** capability (formerly NetApp SnapManager for Virtual Infrastructure) automates data protection processes by enabling the VMware administrators to centrally manage backup and recovery of datastores and VMs without impacting guest performance, and rapidly recover from these backup copies at any level of granularity—datastore, VM, VMDK, or guest file.

Licensing

Virtual Storage Console is a free NOW download, but note that specific licenses are required to utilize specific capabilities, as shown in the table below.

Capability	License Requirement
Virtual Storage Console (BASE)	No license for VSC (but discovery depends on the relevant NFS, iSCSI, and FCP licenses)
Provisioning and Cloning (optional)	
Provisioning	No additional license
Cloning	FlexClone

Backup and Restore (optional)	SnapManager for Virtual Infrastructure, SnapRestore®, FlexClone (for datastore mount, SFR, and VMDK restore to an alternate datastore in NFS environments), and SnapMirror (for replication)
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SMVI Licensing and Part Number Information

Although VSC 2.0 is a free download from NOW, use of the optional Backup and Recovery capability (what used to be SMVI) still requires the purchase of an SMVI license. However, since VSC 2.0 does no license enforcement when the Backup and Recovery capability is selected and installed (the “trust and verify” model is used), there is nothing to prevent a customer from using backup and recovery operations in VSC 2.0 without an SMVI license (and there is no NOW predownload entitlement checking since VSC 2.0 is free).

The upside to no license enforcement is that “Try and Buy” for the Backup and Recovery capability is greatly simplified. Customers can install the Backup and Recovery capability without having first purchased an SMVI license, try out the backup and recovery features, and then purchase the license after they decide the capability meets their business needs.

If customers do not want to use vCenter Server as the console to manage backup and recovery operations, they still have the option to download the previous, standalone version of SMVI 2.0 from NOW rather than use the VSC 2.0 Backup and Recovery capability. The supported features in both SMVI 2.0 and the Backup and Recovery capability of VSC 2.0 are the same.

SMVI has two licensing models, enabling the customer to select the one that makes most business sense:

- ESX host-based (SW-SMVI-VMWARE)
- NetApp storage system tier-based

Note: Two SW-TxC-SMVI-VMWARE licenses must be ordered for a clustered configuration.

The following table lists the SMVI product part numbers as of the date of this product bulletin. Partners should contact their channel representative for pricing information. **Note that SMVI part numbers, packages/bundles, and pricing have not changed from previous SMVI versions.**

Part Number	Description	Discount Category Code
SW-R200-SMVI-10.5-EXP	SnapManager for VI,R200,EXP,10.5TB	J
SW-R200-SMVI-14-EXP	SnapManager for VI,R200,EXP,14TB	J
SW-R200-SMVI-8-EXP	SnapManager for VI,R200,EXP,8TB	J
SW-R200-SMVI-BASE	SnapManager for VI,R200,Base	J
SW-SMVI-VMWARE	SnapManager for VI SW	J
SW-SMVI-VMWARE-INC	SnapManager for VI SW,INC	J
SW-SMVI-VMWARE-TOT	SnapManager for VI SW,TOT	J
SW-T1-SMVI-VMWARE	SnapManager for VI	J

SW,T1

SW-T1C-SMVI-VMWARE	SnapManager for VI SW,T1C	J
SW-T2-SMVI-VMWARE	SnapManager for VI SW,T2	J
SW-T2C-SMVI-VMWARE	SnapManager for VI SW,T2C	J
SW-T3-SMVI-VMWARE-C	SnapManager for VI SW,T3,-C	J
SW-T3-SMVI-VMWARE	SnapManager for VI SW,T3	J
SW-T3C-SMVI-VMWARE-C	SnapManager for VI SW,T3C,-C	J
SW-T3C-SMVI-VMWARE	SnapManager for VI SW,T3C	J
SW-T4-SMVI-VMWARE-C	SnapManager for VI SW,T4,-C	J
SW-T4-SMVI-VMWARE	SnapManager for VI SW,T4	J
SW-T4C-SMVI-VMWARE-C	SnapManager for VI SW,T4C,-C	J
SW-T4C-SMVI-VMWARE	SnapManager for VI SW,T4C	J
SW-T5C-SMVI-VMWARE-C	SnapManager for VI SW,T5,-C	J
SW-T5-SMVI-VMWARE	SnapManager for VI SW,T5	J
SW-T5C-SMVI-VMWARE-C	SnapManager for VI SW,T5C,-C	J
SW-T5C-SMVI-VMWARE	SnapManager for VI SW,T5C	J
SW-T6C-SMVI-VMWARE-C	SnapManager for VI SW,T6,-C	J
SW-T6-SMVI-VMWARE	SnapManager for VI SW,T6	J
SW-T6C-SMVI-VMWARE-C	SnapManager for VI SW,T6C,-C	J
SW-T6C-SMVI-VMWARE	SnapManager for VI SW,T6C	J

SW-T7C-SMVI-VMWARE-C	SnapManager for VI SW,T7,-C	J
SW-T7-SMVI-VMWARE	SnapManager for VI SW,T7	J
SW-T7C-SMVI-VMWARE-C	SnapManager for VI SW,T7C,-C	J
SW-T7C-SMVI-VMWARE	SnapManager for VI SW,T7C	J

SMVI Software Subscription Plans

Customers should purchase an SSP license for SMVI, which entitles them to both NetApp customer support and future releases of SMVI.

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 Subs,SnapManager for VI	SW-SSP-SMVI-VMWARE	J
CS-S-SSP	SW Subscription Plan	S
CS-N-SSP	NetApp SW Subscription Plan	S

Downloading

For downloading software, go to **NOW Download Software** and **follow the link to Virtual Storage Console**.

In order to help guide customers to download VSC 2.0 for the latest versions of RCU and SMVI, an additional "static" page has been inserted into the RCU and SMVI NOW download workflows explaining that the most current versions of RCU and SMVI backup capabilities are integrated into VSC 2.0. Note that customers still have the option to download and install the previous versions, if so desired.

Product Availability

Virtual Storage Console 2.0 is now available for download.

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.

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