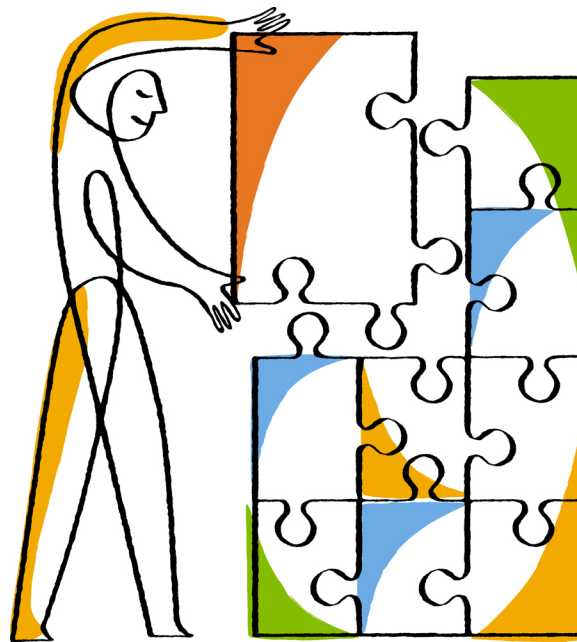




NetApp®

Data ONTAP® SMI-S Agent 5.2.1

Release Notes



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Data ONTAP SMI-S Agent overview

Data ONTAP SMI-S Agent enables you to manage and monitor storage systems and to manage LUNs and volumes of storage systems, CIMOM configuration settings, and CIM server users.

Data ONTAP SMI-S Agent is a command-based interface that detects and manages platforms that run Data ONTAP. SMI-S Agent uses Web-Based Enterprise Management (WBEM) protocols, which enable you to manage, monitor, and report on storage elements.

Data ONTAP SMI-S Agent follows schemas standardized by two organizations:

- Distributed Management Task Force (DMTF)
For more information, see <http://www.dmtf.org/home>.
- Storage Networking Industry Association (SNIA)
For more information, see <http://www.snia.org/home>.

Data ONTAP SMI-S Agent replaces the use of multiple managed-object models, protocols, and transports with a single object-oriented model for all components in a storage network.

New in this release

Data ONTAP SMI-S Agent 5.2.1 includes new support enhancements and critical bug fixes.

- Support for international (Japanese and German) versions of Windows Server 2012 and Windows Server 2012 R2
- Conformance Test Program (CTP) v1.6.0.1081 certification
- OpenSSL upgrade to version 1.0.1m
- Support for in-place upgrade from 5.2 and later on a Windows platform
- Bug fixes

Fixed issues

It is a good practice to review the known issues fixed in a new release before upgrading to it. If a Bugs Online report is available, the bug ID contains a hyperlink to the report.

Bug ID	Description
846398	August 2014 OpenSSL Vulnerabilities and their applicability to Data ONTAP SMI-S Agent.
852112	Data ONTAP SMI-S Agent is crashing while polling for indications.
854950	Data ONTAP SMI-S Agent needs to add correct SyncType for GroupSynchronized and StorageSynchronized instances created for Test Failover.
856127	Read-only pools should be shown as dormant or reserved.
856710	CIFS Share create failing in Data ONTAP 8.3 storage systems.
857392	The qtree-list-iter fails with the error HTTP POST - Unable to send the API request.
860697	SSLv3 Nondeterministic CBC Padding Vulnerability in Data ONTAP SMI-S Agent.
860875	OpenSSL Memory Leak and Handshake Security Vulnerabilities in Data ONTAP SMI-S Agent.
864107	Data ONTAP SMI-S Agent crashed while freeing the dependent list (LUNs) of clone volume.
867807	GroupSynchronization is missing on Data ONTAP SMI-S Agent after creating a Snapshot copy.
873386	Update Data ONTAP SMI-S Agent ASUP information to include RemoteReplication data.
879637	January 2015 OpenSSL Vulnerabilities in Data ONTAP SMI-S Agent.
883482	Need to automate adding default tree quota for volume hosting SMB3 shares to avoid 0 size issue in SCVMM.
887834	Data ONTAP SMI-S Agent is leaking memory and threads during enumeration of CIM_RegisteredProfile class.
891767	Data ONTAP SMI-S Agent 5.1.1 crashed while processing indications.

Bug ID	Description
893761	SCVMM UR5 cannot manage Data ONTAP 8.x operating in 7-Mode with Data ONTAP SMI-S Agent 5.2.
897767	SCVMM 2012 R2 UR5 cannot discover clustered Data ONTAP SVM with Data ONTAP SMI-S Agent 5.2 if SnapMirror is present for root volume of SVM.
899852	Upgrade OpenSSL version to 1.0.1m in Data ONTAP SMI-S Agent to address multiple OpenSSL vulnerabilities.
908117	Data ONTAP SMI-S Agent should only manage/expose SnapMirror with type data_protection.
908628	Weekly Data ONTAP SMI-S Agent ASUP should contain information about all events including ProviderOS and SSL.
914220	Data ONTAP SMI-S Agent cimserver_error log file filled with connection failed messages.
915365	Azure Site Recovery's 'Reverse Replication' operation from recovery to primary replication group/flexvol does not synchronize the data.
921152	More than one instance of CIM_StorageExtent is associated to BlockElement.
921316	SCVMM discovery/rescan fails with error message: "Vserver Peer not found in cache".
923111	Association between ONTAP_DiskExtent and ONTAP_ConcreteExtent must be enabled for clustered systems to pass CTP.
927153	Enumeration of ONTAP_DiskExtentStats generates an error message in the log file.
928622	Installing Data ONTAP SMI-S Agent 5.2 on international (German/Japanese) versions of Windows platform does not work.
929384	Data ONTAP SMI-S Agent crashed on Linux while managing a 7-Mode Storage System.

Upgrade notes

Upgrade notes describe new requirements and changes in support between the last release of the product and this one, including any deprecated features. Review this information carefully before upgrading to the new release. See the NetApp Interoperability Matrix (IMT) for supported configurations and the product user documentation for complete system requirements.

Supported upgrade path

You can upgrade to Data ONTAP SMI-S Agent 5.2.1 from 5.1.1 and later. However, depending on your platform, you must be aware of the following conditions:

- Windows:
 - If upgrading from 5.1.1 or 5.1.2, you must uninstall the existing version by using the Windows Add/Remove Programs utility before upgrading to 5.2.1.
 - If upgrading from 5.2, you can perform an in-place upgrade to 5.2.1.
- Linux:
 - Before performing the upgrade, you must uninstall the existing version.

Changes to Alert and Lifecycle indications

In this release of Data ONTAP SMI-S Agent, support for Alert and Lifecycle indications is disabled by default. You can enable these indications by setting the environment variable PEGASUS_DISABLE_INDICATIONS to **false** and restarting the cimserver process. Additional information about the PEGASUS_DISABLE_INDICATIONS environment variable is available in the *Installation and Configuration Guide*. The client (for example, SCVMM host) must be configured to receive indications. There are known issues if the client is subscribing for indications without having the configuration to receive them.

Related information

[Data ONTAP SMI-S Agent 5.2 Installation and Configuration Guide](#)

Verifying support for your configuration in the IMT

You can use the NetApp Interoperability Matrix (IMT) to verify Data ONTAP SMI-S Agent support for your configuration: Data ONTAP software, host operating system, and the like. Verify your configuration before you install or upgrade to the latest version of Data ONTAP SMI-S Agent.

Steps

1. Go to the [NetApp Interoperability Matrix Tool](#).
2. If Data ONTAP SMI-S Agent is not the selected Storage Solution, click **Change**, and then select it under the **Solutions > Management > API/SDK Suite** category:



3. In the **Component Explorer** pane, select each component you want to verify, and then click **Add** when you are prompted to add the components to the worksheet.

Tip: You can select the parent of a set of components to select all of its children.

4. When you are satisfied with your choices, click **Show Results**.
5. The IMT lists each supported configuration.
 - Scroll across a configuration to view the supported components and any notes or alerts for the configuration.
 - Click the configuration name to display complete information for supported components, including support history and NetApp policies and guidelines for the selected Storage Solution category.

If no results are returned for your configuration, click **Feedback** in the upper right corner of the IMT.

Known limitations

Known limitations identify platforms, devices, or functions that are not supported by this release of the product, or that do not interoperate correctly with it. Review these limitations carefully.

ServiceNow cache refresh

For configurations supporting up to 100 Storage Virtual Machines (SVMs), you must increase the `CACHE_REFRESH_SEC` environment variable to at least one hour (3600 seconds). If your configuration is smaller, you do not need to increase the `CACHE_REFRESH_SEC` environment variable.

Performance notice for some cimcli commands

For configurations with 5,000 FlexVol volumes or 300,000 Snapshot copies, you might experience performance issues with the following `cimcli` commands:

- `cimcli ei ONTAP_Snapshot -n root/ontap`
- `cimcli ei ONTAP_SnapshotBasedOnFlexVol -n root/ontap`
- `cimcli ei ONTAP_StorageVolumeStats -n root/ontap`

Restriction on using the smis addsecure command to manage Data ONTAP systems operating in 7-Mode

Beginning with Data ONTAP SMI-S Agent 5.2.1, the `smis addsecure` command does not work for Data ONTAP systems operating in 7-Mode because the OpenSSL version in Data ONTAP is not compatible with the OpenSSL version in Data ONTAP SMI-S Agent 5.2.1.

Modified default local/domain administrator account cannot be used to manage Data ONTAP SMI-S Agent

You cannot use a modified default local/domain administrator account to manage Data ONTAP SMI-S Agent; you must create and use local/domain administrator accounts to manage Data ONTAP SMI-S Agent.

Known issues

Known issues identify problems that might prevent you from using this release of the product successfully. NetApp Bugs Online provides complete information for most known issues, including any workarounds.

[NetApp Bugs Online](#)

If a Bugs Online report is available, the bug ID contains a hyperlink to the report.

Known issue identified in this release

The following issues have been added to the release notes since the last release:

Bug ID	Description
813952	Data ONTAP SMI-S Agent is not able to discover the file servers from SCVMM 2012 SP1 UR4.
846746	The command <code>smis volumes</code> in Data ONTAP SMI-S Agent returns an empty response
851097	Modified default local/domain administrator account cannot be used to manage Data ONTAP SMI-S Agent.
857057	After a reboot, Data ONTAP SMI-S Agent cannot return information about inaccessible or offline SVMs or Data ONTAP systems operating in 7-Mode.
880660	Data ONTAP SMI-S Agent returns an BAD_UTF8 error during SCVMM rescan or discovery of Data ONTAP SMI-S Agent.
888382	The file server of a storage system might disappear in the SCVMM if the storage system is down for a long period of time.
889367	VM Provisioning in SCVMM fails with error message: "Insufficient system resources exist to complete the requested service".
899335	Registration or Rescan of Data ONTAP SMI-S Agent in SCVMM fails with HostAgentAccessDenied error.
903859	SCVMM rescan operation failed to locate or communicate with Data ONTAP SMI-S Agent.
911841	New Virtual Disk provisioning workflow in Windows 2012 Server Manager is not supported for Clustered Data ONTAP.
914744	Holes in virtual hard disk (vhdx) are not preserved during SCVMM import workflow blocks during library import.
918400	CVE-2015-4000 Diffie-Hellman Export Cipher Suite vulnerability in Data ONTAP SMI-S Agent
925130	Azure Site Recovery's EnableProtection operation fails in SCVMM for ReplicationGroup/FlexVol with error "Relationship with destination <volume> already exists"
929786	The command <code>smis addsecure</code> might fail while trying to add a Data ONTAP system operating in 7-Mode.

Known issues identified in previous releases

The following issues were reported in previous editions of the release notes:

Bug ID	Description
708593	SCVMM 2012 SP1 GUI does not show SVM or storage system name for SMI-S Agent-managed objects.
807396	SMB share size drops to 0 in SCVMM.

How to get help and find more information

The NetApp Support Site provides access to troubleshooting tools, product documentation, and technical assistance. You can use NetApp Community forums to connect with peers, and the NetApp Library to access technical reports and white papers.

Resource	Description
<i>NetApp Support Site</i>	Access troubleshooting tools, product documentation, and technical support assistance.
<i>NetApp Community public forum</i>	Connect with peers, ask questions, exchange ideas, find resources, and share best practices.
<i>NetApp Library</i>	Access technical reports, white papers, and other documents.

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