SMI-S Provider commands

NetApp SMI-S Provider

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SMI-S Provider commands

Overview

You can use the `smis` commands to manage storage systems and to display information about the CIM object manager.

Help is available for the `smis` command by using the `-help` option.

- **smis `-help`**

  Displays a command summary.

- **smis `-help` examples**

  Displays usage examples.

- **smis `-help` *`subcommand`***

  Displays help for the specified subcommand.

The default timeout value for the smis tool is 180 seconds.

smis add

The `smis add` command adds a storage system with an HTTP connection to your configuration to enable you to manage and monitor the device. Unless is it necessary, you should use `smis addsecure` instead of `smis add`.

Syntax

```
smis add

storage_sys storage_sys_user
[-t {http | https}]
```

Operating systems using languages other than U.S. English cannot use the `add` command.

Location

```
C:\Program Files (x86)\NetApp\smis\pegasus\bin
```

Privilege level

Administrator (Windows)

Parameters

- ***`storage_sys`***

  Name or IP address of the storage system that you are adding

If you are specifying the IP address, you can use IPv4 or IPv6. Both compressed and full IPv6 addressees are supported, for example **1001:0002:0000:0000:0000:0000:0003:0004** or **1001:2::3:4**.

- ***storage_sys_user***

  User name of the administrator who manages the storage system that you are adding

- ***storage_sys_pwd***

  Optional: password of the administrator who manages the storage system that you are adding

  As a best practice, do not use this parameter for security reasons. This parameter is provided only for automation and backward compatibility.

- **[-t {http | https}]**

  Protocol to be used: HTTPS (default) or HTTP

Storage system-agent and agent-client protocol

The `smis add` and `smis addsecure` commands determine the protocol used between the storage system and the provider. The `[-t {`**`http | https`**`}]` parameter determines the protocol used between the provider and the client.

The `smis addsecure` command and the `[-t {`**`https`**`}]` parameter connects using SSL encryption, and unencrypted traffic is not allowed. The `smis add` command and the `[-t {`**`http`**`}]` parameter connects without using SSL encryption, and unencrypted traffic is allowed.

You should consider your environment's security needs before disabling SSL-encrypted connections.

Example

Add a storage system using IPv4 with an IP address of 10.32.1.4 over HTTP:

```
smis add 10.32.1.4 user2
```

A confirmation message appears that the storage system was successfully added. If an error occurred, an error message appears.

Example

Add a storage system using IPv6 over HTTP:

```
smis add 1001:0002:0000:0000:0000:0000:0003:0004 user2
smis add 1001:2::3:4 user2
```

A confirmation message appears that the storage system was successfully added. If an error occurred, an error message appears.

Example

Add a storage system with an IP address of 10.32.1.4 over HTTP on a non-English-language system:

```
cimcli -n root/ontap ci ontap_filerdata hostname="10.32.1.4"
username="vsadmin" password="PasSw0Rd" port=80 comMechanism="HTTP"
--timeout 180
```

smis addsecure

The `smis addsecure` command adds a storage system with an HTTPS connection to your configuration to enable you to manage and monitor the device. Unless is it necessary, you should use `smis addsecure` instead of `smis add`.

Syntax

```
smis addsecure

storage_sys storage_sys_user
[-t {http | https}]
```

> Operating systems using languages other than U.S. English cannot use the `addsecure` command.

Location

```
C:\Program Files (x86)\NetApp\smis\pegasus\bin
```

Privilege level

Administrator (Windows)

Parameters

- ***storage_sys***

  Name or IP address of the storage system that you are adding

  If you are specifying the IP address, you can use IPv4 or IPv6. Both compressed and full IPv6 addressees are supported, for example `1001:0002:0000:0000:0000:0000:0003:0004` or `1001:2::3:4`.

- ***storage_sys_user***

  User name of the administrator who manages the storage system that you are adding

- ***storage_sys_pwd***

  Optional: password of the administrator who manages the storage system that you are adding

  As a best practice, do not use this parameter for security reasons. This parameter is provided only for automation and backward compatibility.

- **[-t {http | https}]**

  Protocol to be used: HTTPS (default) or HTTP

Storage system-agent and agent-client protocol

The `smis add` and `smis addsecure` commands determine the protocol used between the storage system and the provider. The `[-t {http | https}]` parameter determines the protocol used between the provider and the client.

The `smis addsecure` command and the `[-t {https}]` parameter connects using SSL encryption, and unencrypted traffic is not allowed. The `smis add` command and the `[-t {http}]` parameter connects without using SSL encryption, and unencrypted traffic is allowed.

You should consider your environment's security needs before disabling SSL-encrypted connections.

Example

Add a storage system using IPv4 with an IP address of 10.32.1.4 over HTTPS:

```
smis addsecure 10.32.1.4 user2 password2
```

A confirmation message appears that the storage system was successfully added. If an error occurred, an error message appears.

Example

Add a storage system using IPv6 over HTTPS:

```
smis addsecure 1001:0002:0000:0000:0000:0000:0003:0004 user2 password2
smis addsecure 1001:2::3:4 user2 password2
```

A confirmation message appears that the storage system was successfully added. If an error occurred, an error message appears.

Example

Add a storage system with an IP address of 10.32.1.4 over HTTPS on a non-English-language system:

```
cimcli -n root/ontap ci ontap_filerdata hostname="10.32.1.4"
username="vsadmin" password="PasSw0Rd" port=443 comMechanism="HTTPS"
--timeout 180
```

smis cimom

The `smis cimom` command describes the CIM object manager.

Syntax

smis cimom `[-t {http | https}]`

Location

`C:\Program Files (x86)\NetApp\smis\pegasus\bin`

Privilege level

A user with a valid user name and password

Parameters

- **`[-t {http | https}]`**

  Protocol to be used: HTTPS (default) or HTTP

Example

The `smis cimom` command and its output:

```
smis cimom
PG_ObjectManager.CreationClassName="PG_ObjectManager",
Name="PG:1297121114307-10-229-89-243",
SystemCreationClassName="PG_ComputerSystem",SystemName="10.1.2.3"
```

smis cimserver

The `smis cimserver` command starts, stops, restarts, or gets the status of the CIM server.

Syntax

`smis cimserver`

`{`**`start`** | **`stop`** | **`restart`** | **`status`**`}`

Location

`C:\Program Files (x86)\NetApp\smis\pegasus\bin`

Privilege level

Administrator (Windows)

Parameters

- **start**

  Start the CIM server.

- **stop**

  Stop the CIM server.

- **restart**

  Restart the CIM server.

- **status**

  Get the status of the CIM server.

smis class

The `smis class` command lists information about a specified class or all classes.

Syntax

`smis class`

name_space {**niall** | {**ei** | **ni** | **gi** | **gc**} *class_name*}} [-t {**http** | **https**}]

Location

`C:\Program Files (x86)\NetApp\smis\pegasus\bin`

Privilege level

A user with a valid user name and password

Parameters

- ***name_space***

  Name space supported by the CIMOM

- **niall**

  Enumerate all instance names

- **ei**

  Enumerate instances for a class

- **ni**

  Enumerate instance names for a class

- **gi**

  Get instances for a class

- **gc**

  Get class for a class name

- ***class_name***

  Name of the class for which you want information

- **[-t {http | https}]**

  Protocol to be used: HTTPS (default) or HTTP

Example

The `smis class` command and its abbreviated output:

```
smis class root/ontap gi CIM_StorageVolume
1:
ONTAP_StorageVolume.CreationClassName="ONTAP_StorageVolume",DeviceID="P3Lf
GJdC-
mN5",SystemCreationClassName="ONTAP_StorageSystem",SystemName="ONTAP:01350
27815"
2:
ONTAP_StorageVolume.CreationClassName="ONTAP_StorageVolume",DeviceID="P3Lf
GJcmzpHt",SystemCreationClassName="ONTAP_StorageSystem",SystemName="ONTAP:
0135027815"
3:
ONTAP_StorageVolume.CreationClassName="ONTAP_StorageVolume",DeviceID="P3Lf
GJc30t26",SystemCreationClassName="ONTAP_StorageSystem",SystemName="ONTAP:
0135027815"
4:
ONTAP_StorageVolume.CreationClassName="ONTAP_StorageVolume",DeviceID="P3Lf
GJcSgbiT",SystemCreationClassName="ONTAP_StorageSystem",SystemName="ONTAP:
0135027815"
5:
ONTAP_StorageVolume.CreationClassName="ONTAP_StorageVolume",DeviceID="P3Lf
GJcSgrA9",SystemCreationClassName="ONTAP_StorageSystem",SystemName="ONTAP:
0135027815"
```

smis config show

The `smis config show` command lists the current CIM server configuration information.

Syntax

`smis config show`

Location

`C:\Program Files (x86)\NetApp\smis\pegasus\bin`

Privilege level

Administrator (Windows)

Example

The `smis config show` and its output:

```
smis config show
slp:
Current value: true

tracelevel:
Current value: 4

traceComponents:
Current value: XmlIO,Thread, IndicationGeneration, DiscardedData,
CMPIProvider, LogMessages, ProviderManager, SSL, Authentication,
Authorization

traceFilePath:
Current value: traces/cimserver.trc

enableAuditLog:
Current value: true

logLevel:
Current value: WARNING

sslKeyFilePath:
Current value: cimom.key

sslCertificateFilePath:
Current value: cimom.cert

passwordFilePath:
Current value: cimserver.passwd

enableHttpConnection:
Current value: true

enableHttpsConnection:
Current value: true

httpPort:
Current value: 5988

httpsPort:
Current value: 5989

enableAuthentication:
Current value: true
```

smis crp

The `smis crp` command describes CIM-registered profiles supported by NetApp SMI-S Provider, including NetApp SMI-S Provider profiles.

Syntax

smis crp

`[-t {`**`http`** | **`https`**`}]`

Location

`C:\Program Files (x86)\NetApp\smis\pegasus\bin`

Privilege level

A user with a valid user name and password

Parameters

- **`[-t {http | https}]`**

  Protocol to be used: HTTPS (default) or HTTP

Example

The `smis crp` command and its output:

```
smis crp

PG_RegisteredProfile.InstanceID="SNIA:Profile Registration:1.4.0"
PG_RegisteredProfile.InstanceID="SNIA:SMI-S:1.4.0"
PG_RegisteredProfile.InstanceID="SNIA:SMI-S:1.5.0"
PG_RegisteredProfile.InstanceID="SNIA:SMI-S:1.6.0"
PG_RegisteredProfile.InstanceID="SNIA:Server:1.4.0"
PG_RegisteredProfile.InstanceID="SNIA:Server:1.5.0"
PG_RegisteredProfile.InstanceID="SNIA:Server:1.6.0"
PG_RegisteredProfile.InstanceID="DMTF:Profile Registration:1.4.0"
PG_RegisteredProfile.InstanceID="DMTF:Indications:1.4.0"
PG_RegisteredSubProfile.InstanceID="SNIA:Indication:1.4.0"
PG_RegisteredSubProfile.InstanceID="SNIA:Indication:1.5.0"
PG_RegisteredSubProfile.InstanceID="SNIA:Indication:1.6.0"
PG_RegisteredSubProfile.InstanceID="SNIA:Software:1.4.0"
PG_RegisteredSubProfile.InstanceID="SNIA:Software:1.5.0"
PG_RegisteredSubProfile.InstanceID="SNIA:Software:1.6.0"
PG_RegisteredSubProfile.InstanceID="SNIA:Object Manager Adapter:1.3.0"
ONTAP_RegisteredSubProfile.InstanceID="ONTAP:iSCSI Target Ports:1.6.0"
ONTAP_RegisteredSubProfile.InstanceID="ONTAP:iSCSI Target Ports:1.2.0"
ONTAP_RegisteredSubProfile.InstanceID="ONTAP:Software:1.4.0"
ONTAP_RegisteredSubProfile.InstanceID="ONTAP:Disk Drive Lite:1.6.0"
ONTAP_RegisteredSubProfile.InstanceID="ONTAP:Disk Drive Lite:1.5.0"
```

```
ONTAP_RegisteredSubProfile.InstanceID="ONTAP:Disk Drive Lite:1.4.0"
ONTAP_RegisteredSubProfile.InstanceID="ONTAP:Multiple Computer
System:1.2.0"
ONTAP_RegisteredSubProfile.InstanceID="ONTAP:Access Points:1.3.0"
ONTAP_RegisteredSubProfile.InstanceID="ONTAP:FC Target Port:1.4.0"
ONTAP_RegisteredSubProfile.InstanceID="ONTAP:FC Initiator Ports:1.6.0"
ONTAP_RegisteredSubProfile.InstanceID="ONTAP:FC Initiator Ports:1.4.0"
ONTAP_RegisteredSubProfile.InstanceID="ONTAP:FC Initiator Ports:1.3.0"
ONTAP_RegisteredSubProfile.InstanceID="ONTAP:Masking and Mapping:1.6.0"
ONTAP_RegisteredSubProfile.InstanceID="ONTAP:Masking and Mapping:1.4.0"
ONTAP_RegisteredSubProfile.InstanceID="ONTAP:Extent Composition:1.6.0"
ONTAP_RegisteredSubProfile.InstanceID="ONTAP:Extent Composition:1.5.0"
ONTAP_RegisteredSubProfile.InstanceID="ONTAP:Extent Composition:1.2.0"
ONTAP_RegisteredSubProfile.InstanceID="ONTAP:Block Server
Performance:1.5.0"
ONTAP_RegisteredSubProfile.InstanceID="ONTAP:Block Server
Performance:1.4.0"
ONTAP_RegisteredSubProfile.InstanceID="ONTAP:Physical Package:1.5.0"
ONTAP_RegisteredSubProfile.InstanceID="ONTAP:Physical Package:1.3.0"
ONTAP_RegisteredSubProfile.InstanceID="ONTAP:Block Services:1.6.0"
ONTAP_RegisteredSubProfile.InstanceID="ONTAP:Block Services:1.5.0"
ONTAP_RegisteredSubProfile.InstanceID="ONTAP:Block Services:1.4.0"
ONTAP_RegisteredSubProfile.InstanceID="ONTAP:Health:1.2.0"
ONTAP_RegisteredSubProfile.InstanceID="ONTAP:FileSystem:1.4.0"
ONTAP_RegisteredSubProfile.InstanceID="ONTAP:File Storage:1.4.0"
ONTAP_RegisteredSubProfile.InstanceID="ONTAP:File Export:1.4.0"
ONTAP_RegisteredSubProfile.InstanceID="ONTAP:File Export
Manipulation:1.6.0"
ONTAP_RegisteredSubProfile.InstanceID="ONTAP:File Export
Manipulation:1.4.0"
ONTAP_RegisteredSubProfile.InstanceID="ONTAP:File System
Manipulation:1.6.0"
ONTAP_RegisteredSubProfile.InstanceID="ONTAP:Filesystem
Manipulation:1.4.0"
ONTAP_RegisteredSubProfile.InstanceID="ONTAP:File Server
Manipulation:1.4.0"
ONTAP_RegisteredSubProfile.InstanceID="ONTAP:FileSystem Quotas:1.4.0"
ONTAP_RegisteredSubProfile.InstanceID="ONTAP:Job Control:1.5.0"
ONTAP_RegisteredSubProfile.InstanceID="ONTAP:Job Control:1.3.0"
ONTAP_RegisteredSubProfile.InstanceID="ONTAP:Location:1.4.0"
ONTAP_RegisteredSubProfile.InstanceID="ONTAP:NAS Network Port:1.4.0"
ONTAP_RegisteredSubProfile.InstanceID="ONTAP:Replication Services:1.5.0"
ONTAP_RegisteredSubProfile.InstanceID="ONTAP:Replication Services:1.6.0"
ONTAP_RegisteredSubProfile.InstanceID="ONTAP:Capacity Utilization:1.4.0"
```

smis crsp

The `smis crsp` command describes CIM-registered subprofiles supported by NetApp SMI-S Provider, including NetApp SMI-S Provider subprofiles.

Syntax

smis crsp

`[-t {`**`http`** | **`https`**`}]`

Location

`C:\Program Files (x86)\NetApp\smis\pegasus\bin`

Privilege level

A user with a valid user name and password

Parameters

- **`[-t {http | https}]`**

  Protocol to be used: HTTPS (default) or HTTP

Example

The `smis crsp` command and its abbreviated output:

```
smis crsp

PG_RegisteredSubProfile.InstanceID="SNIA:Indication:1.4.0"
PG_RegisteredSubProfile.InstanceID="SNIA:Indication:1.5.0"
PG_RegisteredSubProfile.InstanceID="SNIA:Indication:1.6.0"
PG_RegisteredSubProfile.InstanceID="SNIA:Software:1.4.0"
PG_RegisteredSubProfile.InstanceID="SNIA:Software:1.5.0"
PG_RegisteredSubProfile.InstanceID="SNIA:Software:1.6.0"
PG_RegisteredSubProfile.InstanceID="SNIA:Object Manager Adapter:1.3.0"
ONTAP_RegisteredSubProfile.InstanceID="ONTAP:iSCSI Target Ports:1.6.0"
ONTAP_RegisteredSubProfile.InstanceID="ONTAP:iSCSI Target Ports:1.2.0"
ONTAP_RegisteredSubProfile.InstanceID="ONTAP:Software:1.4.0"
ONTAP_RegisteredSubProfile.InstanceID="ONTAP:Disk Drive Lite:1.6.0"
ONTAP_RegisteredSubProfile.InstanceID="ONTAP:Disk Drive Lite:1.5.0"
ONTAP_RegisteredSubProfile.InstanceID="ONTAP:Disk Drive Lite:1.4.0"
ONTAP_RegisteredSubProfile.InstanceID="ONTAP:Multiple Computer
System:1.2.0"
ONTAP_RegisteredSubProfile.InstanceID="ONTAP:Access Points:1.3.0"
ONTAP_RegisteredSubProfile.InstanceID="ONTAP:FC Target Port:1.4.0"
ONTAP_RegisteredSubProfile.InstanceID="ONTAP:FC Initiator Ports:1.6.0"
ONTAP_RegisteredSubProfile.InstanceID="ONTAP:FC Initiator Ports:1.4.0"
ONTAP_RegisteredSubProfile.InstanceID="ONTAP:FC Initiator Ports:1.3.0"
ONTAP_RegisteredSubProfile.InstanceID="ONTAP:Masking and Mapping:1.6.0"
```

```
ONTAP_RegisteredSubProfile.InstanceID="ONTAP:Masking and Mapping:1.4.0"
ONTAP_RegisteredSubProfile.InstanceID="ONTAP:Extent Composition:1.6.0"
ONTAP_RegisteredSubProfile.InstanceID="ONTAP:Extent Composition:1.5.0"
ONTAP_RegisteredSubProfile.InstanceID="ONTAP:Extent Composition:1.2.0"
ONTAP_RegisteredSubProfile.InstanceID="ONTAP:Block Server
Performance:1.5.0"
ONTAP_RegisteredSubProfile.InstanceID="ONTAP:Block Server
Performance:1.4.0"
ONTAP_RegisteredSubProfile.InstanceID="ONTAP:Physical Package:1.5.0"
ONTAP_RegisteredSubProfile.InstanceID="ONTAP:Physical Package:1.3.0"
ONTAP_RegisteredSubProfile.InstanceID="ONTAP:Block Services:1.6.0"
ONTAP_RegisteredSubProfile.InstanceID="ONTAP:Block Services:1.5.0"
ONTAP_RegisteredSubProfile.InstanceID="ONTAP:Block Services:1.4.0"
ONTAP_RegisteredSubProfile.InstanceID="ONTAP:Health:1.2.0"
ONTAP_RegisteredSubProfile.InstanceID="ONTAP:FileSystem:1.4.0"
ONTAP_RegisteredSubProfile.InstanceID="ONTAP:File Storage:1.4.0"
ONTAP_RegisteredSubProfile.InstanceID="ONTAP:File Export:1.4.0"
ONTAP_RegisteredSubProfile.InstanceID="ONTAP:File Export
Manipulation:1.6.0"
ONTAP_RegisteredSubProfile.InstanceID="ONTAP:File Export
Manipulation:1.4.0"
ONTAP_RegisteredSubProfile.InstanceID="ONTAP:File System
Manipulation:1.6.0"
ONTAP_RegisteredSubProfile.InstanceID="ONTAP:Filesystem
Manipulation:1.4.0"
ONTAP_RegisteredSubProfile.InstanceID="ONTAP:File Server
Manipulation:1.4.0"
ONTAP_RegisteredSubProfile.InstanceID="ONTAP:FileSystem Quotas:1.4.0"
ONTAP_RegisteredSubProfile.InstanceID="ONTAP:Job Control:1.5.0"
ONTAP_RegisteredSubProfile.InstanceID="ONTAP:Job Control:1.3.0"
ONTAP_RegisteredSubProfile.InstanceID="ONTAP:Location:1.4.0"
ONTAP_RegisteredSubProfile.InstanceID="ONTAP:NAS Network Port:1.4.0"
ONTAP_RegisteredSubProfile.InstanceID="ONTAP:Replication Services:1.5.0"
ONTAP_RegisteredSubProfile.InstanceID="ONTAP:Replication Services:1.6.0"
ONTAP_RegisteredSubProfile.InstanceID="ONTAP:Capacity Utilization:1.4.0"
```

smis delete

The `smis delete` command deletes a storage system.

Syntax

`smis delete`

`storage_sys`

`[-t {`**`http`** | **`https`**`}]`

Location

`C:\Program Files (x86)\NetApp\smis\pegasus\bin`

Privilege level

Administrator (Windows)

Parameters

- ***storage_sys***

  Name or the IP address of the storage system that you are adding

- **[-t {http | https}]**

  Protocol to be used: HTTPS (default) or HTTP

Example

Delete a storage system labeled mgt-1:

```
smis delete mgt-1
```

If no error message appears, the storage system was successfully deleted.

smis disks

The`smis disks` command displays disk information for storage systems. `smis disks` only functions when used with Data ONTAP 7-Mode controllers.

Syntax

smis disks

`[-t {`**`http`** `|` **`https`**`}]`

Location

`C:\Program Files (x86)\NetApp\smis\pegasus\bin`

Privilege level

A user with a valid user name and password

Parameters

- **[-t {http | https}]**

  Protocol to be used: HTTPS (default) or HTTP

Example

The `smis disks` command and its abbreviated output:

```
smis disks
ONTAP_DiskExtent.CreationClassName="ONTAP_DiskExtent",DeviceID="0c.00.3",S
ystemCreationClassName="ONTAP_StorageSystem",SystemName="ONTAP:0135027815"
ONTAP_DiskExtent.CreationClassName="ONTAP_DiskExtent",DeviceID="0c.00.5",S
ystemCreationClassName="ONTAP_StorageSystem",SystemName="ONTAP:0135027815"
ONTAP_DiskExtent.CreationClassName="ONTAP_DiskExtent",DeviceID="0c.00.7",S
ystemCreationClassName="ONTAP_StorageSystem",SystemName="ONTAP:0135027815"
ONTAP_DiskExtent.CreationClassName="ONTAP_DiskExtent",DeviceID="0c.00.6",S
ystemCreationClassName="ONTAP_StorageSystem",SystemName="ONTAP:0135027815"
ONTAP_DiskExtent.CreationClassName="ONTAP_DiskExtent",DeviceID="0c.00.1",S
ystemCreationClassName="ONTAP_StorageSystem",SystemName="ONTAP:0135027815"
ONTAP_DiskExtent.CreationClassName="ONTAP_DiskExtent",DeviceID="0c.00.8",S
ystemCreationClassName="ONTAP_StorageSystem",SystemName="ONTAP:0135027815"
```

smis exports

The `smis exports` command displays Network Attached Storage (NAS) exports for storage systems.

Syntax

smis exports `[-t {`**`http`** `|` **`https`**`}]`

Location

`C:\Program Files (x86)\NetApp\smis\pegasus\bin`

Privilege level

A user with a valid user name and password

Parameters

- **`[-t {http | https}]`**

  Protocol to be used: HTTPS (default) or HTTP

Example

The `smis exports` command and its output:

```
smis exports
ONTAP_LogicalFile.CreationClassName="ONTAP_LogicalFile",CSCreationClassNam
e="ONTAP_StorageSystem",CSName="ONTAP:68f6b3c0-923a-11e2-a856-
123478563412",FSCreationClassName="ONTAP_LocalFS",FSName="/vol/NAS_vol/Tes
tCFS0528",Name="/vol/NAS_vol/TestCFS0528"
ONTAP_Qtree.CreationClassName="ONTAP_Qtree",CSCreationClassName="ONTAP_Sto
rageSystem",CSName="ONTAP:68f6b3c0-923a-11e2-a856-
123478563412",FSCreationClassName="ONTAP_LocalFS",FSName="nilesh_vserver_r
ootvol",Id="nilesh_vserver_rootvol:0",Name=""
ONTAP_Qtree.CreationClassName="ONTAP_Qtree",CSCreationClassName="ONTAP_Sto
rageSystem",CSName="ONTAP:68f6b3c0-923a-11e2-a856-
123478563412",FSCreationClassName="ONTAP_LocalFS",FSName="NAS_vol",Id="NAS
_vol:0",Name=""
ONTAP_Qtree.CreationClassName="ONTAP_Qtree",CSCreationClassName="ONTAP_Sto
rageSystem",CSName="ONTAP:68f6b3c0-923a-11e2-a856-
123478563412",FSCreationClassName="ONTAP_LocalFS",FSName="NAS_vol",Id="NAS
_vol:1",Name=""
```

smis initiators

The `smis initiators` command displays Fibre Channel and iSCSI port information for storage systems.

Syntax

smis initiators

`[-t {`**`http`** | **`https`**`}]`

Location

`C:\Program Files (x86)\NetApp\smis\pegasus\bin`

Privilege level

A user with a valid user name and password

Parameters

- **`[-t {http | https}]`**

  Protocol to be used: HTTPS (default) or HTTP

Example

The `smis initiators` command and its abbreviated output:

```
smis initiators
ONTAP_StorageHardwareID.InstanceID="ONTAP:0084259609:iqn.1991-
05.com.microsoft:sf-tpc1"
ONTAP_StorageHardwareID.InstanceID="ONTAP:0084259609:21:00:00:e0:8b:86:f2:
89"
ONTAP_StorageHardwareID.InstanceID="ONTAP:0084259609:iqn.1991-
05.com.microsoft:went2k3x32-01"
```

smis licensed

The `smis licensed` command lists the licensed features for storage systems.

Syntax

smis licensed

`[-t {`**`http`** | **`https`**`}]`

Location

`C:\Program Files (x86)\NetApp\smis\pegasus\bin`

Privilege level

A user with a valid user name and password

Parameters

- **`[-t {http | https}]`**

  Protocol to be used: HTTPS (default) or HTTP

Example

The `smis licensed` command and its abbreviated output:

```
smis licensed
ONTAP_SoftwareIdentity.InstanceID="ONTAP:0084259609:cifs"
ONTAP_SoftwareIdentity.InstanceID="ONTAP:0084259609:cluster"
ONTAP_SoftwareIdentity.InstanceID="ONTAP:0084259609:fcp"
ONTAP_SoftwareIdentity.InstanceID="ONTAP:0084259609:iscsi"
ONTAP_SoftwareIdentity.InstanceID="ONTAP:0084259609:nfs"
```

smis list

The `smis list` command displays storage systems that are added.

Syntax

smis list

`[-t {**http** | **https**}]`

Location

`C:\Program Files (x86)\NetApp\smis\pegasus\bin`

Privilege level

A user with a valid user name and password

Parameters

- **[-t {http | https}]**

  Protocol to be used: HTTPS (default) or HTTP

Example

The `smis list` command and its output:

```
smis list
ONTAP_FilerData.hostName="10.16.180.122",port=80
```

smis luns

The `smis luns` command displays LUN information for storage systems.

Syntax

smis luns

`[-t {**http** | **https**}]`

Location

`C:\Program Files (x86)\NetApp\smis\pegasus\bin`

Privilege level

A user with a valid user name and password

Parameters

- **[-t {http | https}]**

  Protocol to be used: HTTPS (default) or HTTP

Example

The `smis luns` command and its abbreviated output:

```
smis luns
ONTAP_StorageVolume.CreationClassName="ONTAP_StorageVolume",DeviceID
="ef805c0d-5269-47c6-ba0fd9cdbf5e2515",
SystemCreationClassName="ONTAP_StorageSystem",SystemNa
me="ONTAP:68f6b3c0-923a-11e2-a856-123478563412"
ONTAP_StorageVolume.CreationClassName="ONTAP_StorageVolume",DeviceID
="f81cb3bf-2f16-467c-8e30-88bae415ab05",SystemCreationClassName="ONT
AP_StorageSystem",SystemName="ONTAP:68f6b3c0-923a-11e2-
a856-123478563412"
ONTAP_StorageVolume.CreationClassName="ONTAP_StorageVolume",DeviceID
="684f5fb9-0fdd-4b97-8678-188774bdcdd0",SystemCreationClassName="ONT
AP_StorageSystem",SystemName="ONTAP:68f6b3c0-923a-11e2-
a856-123478563412"
```

smis namespaces

The `smis namespaces` command lists the registered namespaces for the CIMOM.

Syntax

smis namespaces

`[-t {`**`http`** | **`https`**`}]`

Location

`C:\Program Files (x86)\NetApp\smis\pegasus\bin`

- Windows: `C:\Program Files (x86)\NetApp\smis\pegasus\bin`

Privilege level

A user with a valid user name and password

Parameters

- **`[-t {http | https}]`**

  Protocol to be used: HTTPS (default) or HTTP

Example

The `smis namespaces` command and its abbreviated output:

```
smis namespaces
interop
root/ontap
```

smis pools

The `smis pools` command lists the storage pools for storage systems.

Syntax

`smis pools`

`[-t {`**`http`** | **`https`**`}]`

Location

`C:\Program Files (x86)\NetApp\smis\pegasus\bin`

Privilege level

A user with a valid user name and password

Parameters

- **`[-t {http | https}]`**

  Protocol to be used: HTTPS (default) or HTTP

Example

The `smis pools` command and its abbreviated output:

```
smis pools
ONTAP_ConcretePool.InstanceID="ONTAP:0084259609:d46de7f0-3925-11df-8516-
00a0980558ea"
ONTAP_ConcretePool.InstanceID="ONTAP:0084259609:51927ab0-28b5-11df-92b2-
00a0980558ea"
ONTAP_DiskPrimordialPool.InstanceID="ONTAP:0084259609:Spare"
ONTAP_DiskPrimordialPool.InstanceID="ONTAP:0084259609:Other"
ONTAP_DiskPrimordialPool.InstanceID="ONTAP:0084259609:Present"
```

smis refresh

By default, SMI-S Provider automatically gets information from storage systems every 60 minutes (3600 seconds). You can use the `smis refresh` command to manually refresh a particular storage system.

Syntax

`smis refresh` *`storage_system_ip`*

`[-t {`**`http`** | **`https`**`}]`

Location

`C:\Program Files (x86)\NetApp\smis\pegasus\bin`

Privilege level

A user with a valid user name and password

Parameters

- ***storage_system_ip***

  Refreshes a specific storage system.

- **[-t {http | https}]**

  Protocol to be used: HTTPS (default) or HTTP

Example

The `smis refresh` command and its output:

```
smis refresh 10.32.1.4
Return Value= 0
```

smis slpd

The `smis slpd` command starts or stops the SLP daemon.

Syntax

`smis slpd`

{**start** | **stop**}

Location

`C:\Program Files (x86)\NetApp\smis\pegasus\bin`

Privilege level

Administrator (Windows)

Example

Start the SLP daemon:

```
smis slpd start
SLPD started.
```

Stop the SLP daemon:

```
smis slpd stop
SLPD (15564) was successfully stopped.
```

smis version

The `smis version` command displays the version of NetApp SMI-S Provider.

Syntax

`smis version`

`[-t {`**`http`** | **`https`**`}]`

Location

`C:\Program Files (x86)\NetApp\smis\pegasus\bin`

Privilege level

A user with a valid user name and password

Parameters

- **`[-t {http | https}]`**

  Protocol to be used: HTTPS (default) or HTTP

Example

The `smis version` command and its output:

```
smis version
ONTAP_SMIAgentSoftware.InstanceID="ONTAP5.2.2"
```

smis volumes

The `smis volumes` command lists the traditional and flexible volumes for storage systems.

Syntax

`smis volumes`

`[-t {`**`http`** | **`https`**`}]`

> For clustered Data ONTAP, you must use the `smis pools` command instead of the `smis volumes` command.

Location

`C:\Program Files (x86)\NetApp\smis\pegasus\bin`

Privilege level

A user with a valid user name and password

Parameters

- **[-t {http | https}]**

  Protocol to be used: HTTPS (default) or HTTP

Example

The `smis volumes` command and its abbreviated output:

```
smis volumes
ONTAP_LogicalDisk.CreationClassName="ONTAP_LogicalDisk",DeviceID="d46de7f0
-3925-
11df-8516-
00a0980558ea",SystemCreationClassName="ONTAP_StorageSystem",SystemName
="ONTAP:0084259609"
ONTAP_LogicalDisk.CreationClassName="ONTAP_LogicalDisk",DeviceID="397cd140
-3a45-
11df-8516-
00a0980558ea",SystemCreationClassName="ONTAP_StorageSystem",SystemName
="ONTAP:0084259609"
ONTAP_LogicalDisk.CreationClassName="ONTAP_LogicalDisk",DeviceID="69c472c0
-4b27-
11df-8517-
00a0980558ea",SystemCreationClassName="ONTAP_StorageSystem",SystemName
="ONTAP:0084259609"
ONTAP_LogicalDisk.CreationClassName="ONTAP_LogicalDisk",DeviceID="6c7ea0b0
-3927-
11df-8516-
00a0980558ea",SystemCreationClassName="ONTAP_StorageSystem",SystemName
="ONTAP:0084259609"
```

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