

# Dell EMC Data Domain<sup>®</sup> Operating System

Version 6.1

## MIB Quick Reference

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REV 01

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# Preface

As part of an effort to improve its product lines, EMC periodically releases revisions of its software and hardware. Therefore, some functions described in this document might not be supported by all versions of the software or hardware currently in use. The product release notes provide the most up-to-date information on product features, software updates, software compatibility guides, and information about EMC products, licensing, and service.

Contact your EMC technical support professional if a product does not function properly or does not function as described in this document.

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## Note

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## Purpose

This document provides a description of the objects in the EMC Data Domain Operating System (DD OS) Management Information Base (MIB).

## Audience

This document is intended for system administrators and other advanced technical users requiring concise, targeted information for monitoring Data Domain systems.

## Related documentation

Instructions for using SNMP (Simple Network Management Protocol) on Data Domain systems are provided in the *EMC Data Domain Operating System Administration Guide* and the *EMC Data Domain Operating System Command Reference Guide*. Both documents are available from EMC Online Support (<https://support.emc.com>).

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# CHAPTER 1

## How to use this reference

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## Introduction

The *Data Domain Operating System MIB Quick Reference* lists all of the Data Domain MIB (Management Information Base) objects and notifications.

The audience for this document is system administrators and other advanced technical users requiring concise, targeted information for monitoring Data Domain systems.

Descriptions of SNMP (Simple Network Management Protocol) and MIBs are not included in this document, but are widely available on the Internet.

Instructions for using SNMP on Data Domain systems are provided in the *Data Domain Operating System Administration Guide* and the *Data Domain Operating System Command Reference Guide*.

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### Note

The Data Domain MIB complies with the SNMPv1, v2c, and v3 protocols.

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## Revision history

**Table 1** Revision history

Revision	Date	Description
01	June 2017	Initial publication for release 6.1, which includes the changes in the following tables.

**Table 2** Added MIB objects

MIB object	OID
elicenseScheme	1.3.6.1.4.1.19746.1.13.4.8
elicenseLicenseServer	1.3.6.1.4.1.19746.1.13.4.9
mailserver	1.3.6.1.4.1.19746.1.18.6
mailserverName	1.3.6.1.4.1.19746.1.18.6.1
ddmsSmt	1.3.6.1.4.1.19746.1.19.4
ddmsSmtGeneralInfo	1.3.6.1.4.1.19746.1.19.4.1
numberOfTenants	1.3.6.1.4.1.19746.1.19.4.1.1
numberOfTenantsUnits	1.3.6.1.4.1.19746.1.19.4.1.2
numberOfHostSystem	1.3.6.1.4.1.19746.1.19.4.1.3
ddmsSmtTenantInfoTable	1.3.6.1.4.1.19746.1.19.4.2
ddmsSmtTenantInfoEntry	1.3.6.1.4.1.19746.1.19.4.2.1
ddmsSmtTenantInfoIdx	1.3.6.1.4.1.19746.1.19.4.2.1.1
ddmsSmtTenantInfoTenantName	1.3.6.1.4.1.19746.1.19.4.2.1.2

**Table 2** Added MIB objects (continued)

MIB object	OID
ddmsSmtTenantInfoAdminName	1.3.6.1.4.1.19746.1.19.4.2.1.3
ddmsSmtTenantInfoAdminEmail	1.3.6.1.4.1.19746.1.19.4.2.1.4
ddmsSmtTenantInfoNumOfTenantUnits	1.3.6.1.4.1.19746.1.19.4.2.1.5
ddmsSmtTenantUnitInfoTable	1.3.6.1.4.1.19746.1.19.4.3
ddmsSmtTenantUnitInfoEntry	1.3.6.1.4.1.19746.1.19.4.3.1
ddmsSmtTenantUnitInfoTenantUnitIdx	1.3.6.1.4.1.19746.1.19.4.3.1.1
ddmsSmtTenantUnitInfoTenantUnitName	1.3.6.1.4.1.19746.1.19.4.3.1.2
ddmsSmtTenantUnitInfoTenantName	1.3.6.1.4.1.19746.1.19.4.3.1.3
ddmsSmtTenantUnitInfoHostSystem	1.3.6.1.4.1.19746.1.19.4.3.1.4
ddmsSmtTenantUnitInfoStatus	1.3.6.1.4.1.19746.1.19.4.3.1.5
ddmsSmtTenantUnitInfoAdminName	1.3.6.1.4.1.19746.1.19.4.3.1.6
ddmsSmtTenantUnitInfoAdminEmail	1.3.6.1.4.1.19746.1.19.4.3.1.7
ddmsSmtTenantUnitInfoNumOfMTrees	1.3.6.1.4.1.19746.1.19.4.3.1.8
ddmsSmtTenantUnitInfoNumOfStorageUnits	1.3.6.1.4.1.19746.1.19.4.3.1.9

**Table 3** Changed MIB objects

MIB Object	OID
managedSystemCDSyncTime	1.3.6.1.4.1.19746.1.19.1.1.1.8

**Table 4** Added MIB notifications

MIB notification	OID
servedLicenseNotAvailable	1.3.6.1.4.1.19746.2.0.11101
missingISWID	1.3.6.1.4.1.19746.2.0.11103

## Locating the Data Domain MIB (DATA\_DOMAIN.mib)

The Data Domain MIB file (DATA\_DOMAIN.mib) is included with your DD OS software package.

This file is located in one of these directories:

Windows: \\myddr.company.com\ddvar\snmp\mibs\DATA\_DOMAIN.mib

NFS: /net/myddr.company.com/ddvar/snmp/mibs/DATA\_DOMAIN.mib

You can also download this file from EMC Online Support, as follows:

### Procedure

1. Go to <https://support.emc.com>.
2. Select **Downloads**.

3. In **Type a Product Name**, type in a product or release name, such as **Data Domain DD990** or **DD OS 5.7**.
4. Select the **>>**.
5. Scroll down to the MIB file, and select it.
6. Open or save the file to the desired location – a good place would be the aforementioned SNMP management tool location (/ddvar/snmp/mibs).

## Using the SNMP translator

The SNMP translator tool converts SNMP OIDs into object names, letting you search objects and browse OID trees and descriptions.

### Procedure

1. Go to the location of the MIB file. As mentioned in the previous section, this will be either:
  - **Windows:** \\myddr.company.com\ddvar\snmp\mibs\DATA\_DOMAIN.mib
  - **NFS:** /net/myddr.company.com/ddvar/snmp/mibs/DATA\_DOMAIN.mib
2. Copy the DATA\_DOMAIN.mib file to a Unix or Linux system on which the SNMP management tool is available.
3. At the command prompt, enter:

```
snmptranslate -m ./DATA_DOMAIN.mib <trap OID>
```
4. For more information on the OID and suggested action, use the **-Td** switch.

# CHAPTER 2

## dataDomainMibObjects (1.3.6.1.4.1.19746.1)

Each object in the MIB (Management Information Base) is assigned an SNMP (Simple Network Management Protocol) OID (object identifier) – the numerical equivalent of a path in the MIB hierarchy – written in ASN.1 (abstract syntax notation one), which is a string of numbers separated by periods.

The MIB assigns readable labels to these OIDs, which enable the SNMP manager to interpret and assemble SNMP messages.

The ASN.1 prefix (1.3.6.1.4.1.), combined with the five-digit Data Domain enterprise identifier (19746), is 1.3.6.1.4.1.19746.

To form the OID for the first object, dataDomainMibObjects, a .1 is added, resulting in 1.3.6.1.4.1.19746.1.

The remaining objects and sub-objects follow this numbering scheme, based on the Data Domain MIB hierarchy.

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## environmentals (1.3.6.1.4.1.19746.1.1)

Information in this section provides the type of environmental objects, identification (OIDs), and descriptions.

### power (1.3.6.1.4.1.19746.1.1.1)

#### powerModules (1.3.6.1.4.1.19746.1.1.1.1)

Object Type and ID	Description
powerModuleTable 1.3.6.1.4.1.19746.1.1.1.1.1	A table containing entries of powerModuleEntry
powerModuleEntry 1.3.6.1.4.1.19746.1.1.1.1.1.1	Description of powerModuleTable row.
powerEnclosureID 1.3.6.1.4.1.19746.1.1.1.1.1.1.1	Power module enclosure ID.
powerModuleIndex 1.3.6.1.4.1.19746.1.1.1.1.1.1.2	Power module index.
powerModuleDescription 1.3.6.1.4.1.19746.1.1.1.1.1.1.3	Power module description.
powerModuleStatus 1.3.6.1.4.1.19746.1.1.1.1.1.1.4	Current enclosure power module status.

### temperatures (1.3.6.1.4.1.19746.1.1.2)

#### temperatureSensors (1.3.6.1.4.1.19746.1.1.2.1)

Object Type and ID	Description
temperatureSensorTable 1.3.6.1.4.1.19746.1.1.2.1.1	A table containing entries of temperatureSensorEntry.
temperatureSensorEntry 1.3.6.1.4.1.19746.1.1.2.1.1.1	Description of temperatureSensorTable row.
tempEnclosureID 1.3.6.1.4.1.19746.1.1.2.1.1.1.1	Temperature sensor enclosure ID.
tempSensorIndex 1.3.6.1.4.1.19746.1.1.2.1.1.1.2	Temperature sensor index.
tempSensorTrapIndex 1.3.6.1.4.1.19746.1.1.2.1.1.1.3	Temperature sensor number used for traps.
tempSensorDescription 1.3.6.1.4.1.19746.1.1.2.1.1.1.4	Temperature sensor description.
tempSensorCurrentValue 1.3.6.1.4.1.19746.1.1.2.1.1.1.5	Current temperature value of the sensor.
tempSensorStatus 1.3.6.1.4.1.19746.1.1.2.1.1.1.6	Current status of the sensor.

## fans (1.3.6.1.4.1.19746.1.1.3)

### fanProperties (1.3.6.1.4.1.19746.1.1.3.1)

Object Type and ID	Description
fanPropertiesTable 1.3.6.1.4.1.19746.1.1.3.1.1	A table containing entries of fanPropertiesEntry.
fanPropertiesEntry 1.3.6.1.4.1.19746.1.1.3.1.1.1	Description of fanPropertiesTable row.
fanEnclosureID 1.3.6.1.4.1.19746.1.1.3.1.1.1.1	Enclosure ID of the fan.
fanIndex 1.3.6.1.4.1.19746.1.1.3.1.1.1.2	Fan number index of the fan.
fanTrapIndex 1.3.6.1.4.1.19746.1.1.3.1.1.1.3	Fan number trap index, used for trap notifications.
fanDescription 1.3.6.1.4.1.19746.1.1.3.1.1.1.4	Vendor-supplied description of the fan.
fanLevel 1.3.6.1.4.1.19746.1.1.3.1.1.1.5	Current run level of the fan.
fanStatus 1.3.6.1.4.1.19746.1.1.3.1.1.1.6	Current status of the fan.

## nvrAm (1.3.6.1.4.1.19746.1.2)

Information in this section provides the type of non-volatile random-access memory (NVRAM) objects, identification (OIDs), and descriptions.

### nvrAmProperties (1.3.6.1.4.1.19746.1.2.1)

Object Type and ID	Description
nvrAmPropertiesTable 1.3.6.1.4.1.19746.1.2.1.1	A table containing entries of nvrAmPropertiesEntry.
nvrAmPropertiesEntry 1.3.6.1.4.1.19746.1.2.1.1.1	Description of nvrAmPropertiesTable row.
nvrAmPropertiesIndex 1.3.6.1.4.1.19746.1.2.1.1.1.1	NVRAM card index.
nvrAmMemorySize 1.3.6.1.4.1.19746.1.2.1.1.1.2	Size of NVRAM memory in bytes.
nvrAmWindowSize 1.3.6.1.4.1.19746.1.2.1.1.1.3	Window size of NVRAM in bytes.
nvrAmHcMemorySize 1.3.6.1.4.1.19746.1.2.1.1.1.4	The size of an NVRAM entity's memory in bytes, with support for high capacity modules. This entry may be used in place of nvrAmMemorySize.

## **nvrAmStats (1.3.6.1.4.1.19746.1.2.2)**

<b>Object Type and ID</b>	<b>Description</b>
nvrAmStatsTable 1.3.6.1.4.1.19746.1.2.2.1	A table containing entries of nvrAmStatsEntry.
nvrAmStatsEntry 1.3.6.1.4.1.19746.1.2.2.1.1	Description of nvrAmStatsTable row.
nvrAmStatsIndex 1.3.6.1.4.1.19746.1.2.2.1.1.1	NVRAM card index.
nvrAmPCIErrCount 1.3.6.1.4.1.19746.1.2.2.1.1.2	Number of PCI errors encountered on NVRAM card.
nvrAmMemoryErrCount 1.3.6.1.4.1.19746.1.2.2.1.1.3	Number of memory errors encountered on NVRAM card.

## **nvrAmBatteries (1.3.6.1.4.1.19746.1.2.3)**

<b>Object Type and ID</b>	<b>Description</b>
nvrAmBatteryTable 1.3.6.1.4.1.19746.1.2.3.1	A table containing entries of nvrAmBatteryEntry.
nvrAmBatteryEntry 1.3.6.1.4.1.19746.1.2.3.1.1	Description of nvrAmBatteryTable row.
nvrAmBatteriesIndex 1.3.6.1.4.1.19746.1.2.3.1.1.1	NVRAM card index.
nvrAmBatteryIndex 1.3.6.1.4.1.19746.1.2.3.1.1.2	NVRAM battery number.
nvrAmBatteryStatus 1.3.6.1.4.1.19746.1.2.3.1.1.3	NVRAM battery status.
nvrAmBatteryCharge 1.3.6.1.4.1.19746.1.2.3.1.1.4	NVRAM battery charge percentage.

## **fileSystem (1.3.6.1.4.1.19746.1.3)**

Information in this section provides the type of file system objects, identification (OIDs), and descriptions.

### **fileSystemProperties (1.3.6.1.4.1.19746.1.3.1)**

<b>Object Type and ID</b>	<b>Description</b>
fileSystemStatus 1.3.6.1.4.1.19746.1.3.1.1	Status of the file system: 1=enabled, 2=disabled, 3=running, 4=unknown, 5=error, 6=cleaning.
fileSystemVirtualSpace 1.3.6.1.4.1.19746.1.3.1.2	Amount of uncompressed data backed up by the system.
fileSystemUpTime 1.3.6.1.4.1.19746.1.3.1.3	File system up time.



Object Type and ID	Description
fileSystemStatusMessage 1.3.6.1.4.1.19746.1.3.1.4	File system status message.

## fileSystemSpace (1.3.6.1.4.1.19746.1.3.2)

Object Type and ID	Description
fileSystemSpaceTable 1.3.6.1.4.1.19746.1.3.2.1	A table containing entries of fileSystemSpaceEntry.
fileSystemSpaceEntry 1.3.6.1.4.1.19746.1.3.2.1.1	Description of fileSystemSpaceTable row.
fileSystemResourceIndex 1.3.6.1.4.1.19746.1.3.2.1.1.1	File system resource index.
fileSystemResourceTrapIndex 1.3.6.1.4.1.19746.1.3.2.1.1.2	File system resource trap index.
fileSystemResourceName 1.3.6.1.4.1.19746.1.3.2.1.1.3	File system resource name.
fileSystemSpaceSize 1.3.6.1.4.1.19746.1.3.2.1.1.4	Size of the file system resource in gigabytes.
fileSystemSpaceUsed 1.3.6.1.4.1.19746.1.3.2.1.1.5	Amount of used space within the file system resource in gigabytes.
fileSystemSpaceAvail 1.3.6.1.4.1.19746.1.3.2.1.1.6	Amount of available space within the file system resource in gigabytes.
fileSystemPercentUsed 1.3.6.1.4.1.19746.1.3.2.1.1.7	Percentage of used space within the file system resource.
fileSystemSpaceCleanable 1.3.6.1.4.1.19746.1.3.2.1.1.8	Amount of cleanable space within the file system resource.
fileSystemResourceTier 1.3.6.1.4.1.19746.1.3.2.1.1.9	Tier to which a resource belongs, such as active or archive.

## fileSystemCompression (1.3.6.1.4.1.19746.1.3.3)

Object Type and ID	Description
fileSystemCompressionTable 1.3.6.1.4.1.19746.1.3.3.1	A table containing entries of fileSystemCompressionEntry.
fileSystemCompressionEntry 1.3.6.1.4.1.19746.1.3.3.1.1	Description of fileSystemCompressionTable row.
fileSystemCompressionIndex 1.3.6.1.4.1.19746.1.3.3.1.1.1	File system compression index.
fileSystemCompressionPeriod 1.3.6.1.4.1.19746.1.3.3.1.1.2	File system compression period.
fileSystemCompressionStartTime 1.3.6.1.4.1.19746.1.3.3.1.1.3	File system compression start time.

Object Type and ID	Description
fileSystemCompressionEndTime 1.3.6.1.4.1.19746.1.3.3.1.1.4	File system compression end time.
fileSystemPreCompressionSize 1.3.6.1.4.1.19746.1.3.3.1.1.5	Size of the file system pre-compression in gigabytes.
fileSystemPostCompressionSize 1.3.6.1.4.1.19746.1.3.3.1.1.6	Size of the file system post-compression in gigabytes.
fileSystemGlobalCompressionFactor 1.3.6.1.4.1.19746.1.3.3.1.1.7	File system global compression factor.
fileSystemLocalCompressionFactor 1.3.6.1.4.1.19746.1.3.3.1.1.8	File system local compression factor.
fileSystemTotalCompressionFactor 1.3.6.1.4.1.19746.1.3.3.1.1.9	File system total compression factor.
fileSystemReductionPercent 1.3.6.1.4.1.19746.1.3.3.1.1.10	File system reduction per cent.
fileSystemReductionPercent 1.3.6.1.4.1.19746.1.3.3.1.1.11	File system reduction per cent.

## fileSystemOptions (1.3.6.1.4.1.19746.1.3.4)

Object Type and ID	Description
fileSystemOptionsTable 1.3.6.1.4.1.19746.1.3.4.1	A table containing entries of fileSystemOptionsEntry.
fileSystemOptionsEntry 1.3.6.1.4.1.19746.1.3.4.1.1	Description of fileSystemOptionsTable row.
fileSystemOptionsIndex 1.3.6.1.4.1.19746.1.3.4.1.1.1	File system options index.
fileSystemOptionsName 1.3.6.1.4.1.19746.1.3.4.1.1.2	This object represents the file system options type-in-text format. Here are the possible options and their representations: <ul style="list-style-type: none"> <li><b>option name</b> representation in text</li> <li><b>local compression type</b> gz/gzfast/lz</li> <li><b>marker-type</b> auto/cv1</li> <li><b>report-replica-as-writable</b> enabled/disabled</li> <li><b>low-bw-optim replication support</b> enabled/disabled</li> <li><b>current global compression type</b> 1/9</li> </ul>

Object Type and ID	Description
	<b>staging reserve</b> % of total space/disabled
	<b>staging clean</b> % of staging reserve space
	<b>staging delete suspend</b> % of staging reserve space
fileSystemOptionsValue 1.3.6.1.4.1.19746.1.3.4.1.1.3	File system options value.

### fileSystemClean (1.3.6.1.4.1.19746.1.3.5)

Object Type and ID	Description
fileSystemCleanTable 1.3.6.1.4.1.19746.1.3.5.1	A table containing entries of fileSystemCleanEntry.
fileSystemCleanEntry 1.3.6.1.4.1.19746.1.3.5.1.1	Description of fileSystemCleanTable row.
fileSystemCleanIndex 1.3.6.1.4.1.19746.1.3.5.1.1.1	File system clean index.
fileSystemCleanStatus 1.3.6.1.4.1.19746.1.3.5.1.1.2	File system clean status.
fileSystemCleanSchedule 1.3.6.1.4.1.19746.1.3.5.1.1.3	File system clean schedule.
fileSystemCleanThrottle 1.3.6.1.4.1.19746.1.3.5.1.1.4	File system clean throttle.

### fileSystemArchiveUnit (1.3.6.1.4.1.19746.1.3.6)

Object Type and ID	Description
fileSystemArchiveUnitTable 1.3.6.1.4.1.19746.1.3.6.1	A table containing entries of fileSystemArchiveUnitEntry.
fileSystemArchiveUnitEntry 1.3.6.1.4.1.19746.1.3.6.1.1	Description of fileSystemArchiveUnitTable row.
fileSystemArchiveUnitIndex 1.3.6.1.4.1.19746.1.3.6.1.1.1	File system archive unit index.
fileSystemArchiveUnitName 1.3.6.1.4.1.19746.1.3.6.1.1.2	File system archive unit name.
fileSystemArchiveUnitState 1.3.6.1.4.1.19746.1.3.6.1.1.3	File system archive unit state.
fileSystemArchiveUnitStatus 1.3.6.1.4.1.19746.1.3.6.1.1.4	File system archive unit status.

Object Type and ID	Description
fileSystemArchiveUnitStartTime 1.3.6.1.4.1.19746.1.3.6.1.1.5	File system archive unit start time.
fileSystemArchiveUnitEndTime 1.3.6.1.4.1.19746.1.3.6.1.1.6	File system archive unit end time.
fileSystemArchiveUnitSize 1.3.6.1.4.1.19746.1.3.6.1.1.7	File system archive unit size.
fileSystemArchiveUnitDiskGroups 1.3.6.1.4.1.19746.1.3.6.1.1.8	File system archive unit disk groups.

## alerts (1.3.6.1.4.1.19746.1.4)

Information in this section provides the type of alerts objects, identification (OIDs), and descriptions. Alerts communicate system problems in real time.

### currentAlerts (1.3.6.1.4.1.19746.1.4.1)

Object Type and ID	Description
currentAlertTable 1.3.6.1.4.1.19746.1.4.1.1	A table containing entries of currentAlertEntry.
currentAlertEntry 1.3.6.1.4.1.19746.1.4.1.1.1	Description of currentAlertTable row.
currentAlertIndex 1.3.6.1.4.1.19746.1.4.1.1.1.1	Current alert row index.
currentAlertTimestamp 1.3.6.1.4.1.19746.1.4.1.1.1.2	Timestamp of current alert.
currentAlertDescription 1.3.6.1.4.1.19746.1.4.1.1.1.3	Alert description.
currentAlertSeverity 1.3.6.1.4.1.19746.1.4.1.1.1.4	Alert severity.
currentAlertID 1.3.6.1.4.1.19746.1.4.1.1.1.5	Alert ID.

### alertHistory (1.3.6.1.4.1.19746.1.4.2)

Object Type and ID	Description
alertHistoryTable 1.3.6.1.4.1.19746.1.4.2.1	A table containing entries of alertHistoryEntry.
alertHistoryEntry 1.3.6.1.4.1.19746.1.4.2.1.1	Description of alertHistoryTable row.
alertHistoryIndex 1.3.6.1.4.1.19746.1.4.2.1.1.1	Alert history row index.
alertHistoryTimestamp 1.3.6.1.4.1.19746.1.4.2.1.1.2	Timestamp of alert.

Object Type and ID	Description
alertHistoryDescription 1.3.6.1.4.1.19746.1.4.2.1.1.3	Alert history description.
alertHistorySeverity 1.3.6.1.4.1.19746.1.4.2.1.1.4	Alert history severity.
alertHistoryStatus 1.3.6.1.4.1.19746.1.4.2.1.1.5	Alert history status (post or cleared).

### alertInfo (1.3.6.1.4.1.19746.1.4.3)

Object Type and ID	Description
alertInfoTable 1.3.6.1.4.1.19746.1.4.3.1	A table containing entries of alertInfoEntry.
alertInfoEntry 1.3.6.1.4.1.19746.1.4.3.1.1	Description of alertInfoTable row.
alertInfoIndex 1.3.6.1.4.1.19746.1.4.3.1.1.1	Alert information row index.
alertInfoDescription 1.3.6.1.4.1.19746.1.4.3.1.1.2	Alert information description.

### statistics (1.3.6.1.4.1.19746.1.5)

Information in this section provides the type of system statistics objects, identification (OIDs), and descriptions. System statistics are available for various components, including CPU, NFS, CIFS, disks, NVRAM, and replication.

#### systemStats (1.3.6.1.4.1.19746.1.5.1)

Object Type and ID	Description
systemStatsTable 1.3.6.1.4.1.19746.1.5.1.1	A table containing entries of systemStatsEntry.
systemStatsEntry 1.3.6.1.4.1.19746.1.5.1.1.1	Description of systemStatsTable row.
systemStatsIndex 1.3.6.1.4.1.19746.1.5.1.1.1.1	System statistics row index.
cpuAvgPercentageBusy 1.3.6.1.4.1.19746.1.5.1.1.1.2	Average percentage of time CPU was busy.
cpuMaxPercentageBusy 1.3.6.1.4.1.19746.1.5.1.1.1.3	Maximum percentage of time CPU was busy.
nfsOpsPerSecond 1.3.6.1.4.1.19746.1.5.1.1.1.4	Number of NFS operations performed per second.
nfsIdlePercentage 1.3.6.1.4.1.19746.1.5.1.1.1.5	Percentage of time NFS was idle.

Object Type and ID	Description
nfsProcPercentage 1.3.6.1.4.1.19746.1.5.1.1.1.6	Percentage of time NFS was processing.
nfsSendPercentage 1.3.6.1.4.1.19746.1.5.1.1.1.7	Percentage of time NFS was sending requests.
nfsReceivePercentage 1.3.6.1.4.1.19746.1.5.1.1.1.8	Percentage of time NFS was receiving requests.
cifsOpsPerSecond 1.3.6.1.4.1.19746.1.5.1.1.1.9	Number of CIFS operations performed per second.
diskReadKBytesPerSecond 1.3.6.1.4.1.19746.1.5.1.1.1.10	Number of KBytes read from disk per second.
diskWriteKBytesPerSecond 1.3.6.1.4.1.19746.1.5.1.1.1.11	Number of KBytes written on disk per second.
diskBusyPercentage 1.3.6.1.4.1.19746.1.5.1.1.1.12	Percentage of time disks were busy.
nvrAmReadKBytesPerSecond 1.3.6.1.4.1.19746.1.5.1.1.1.13	Number of KBytes read from NVRAM per second.
nvrAmWriteKBytesPerSecond 1.3.6.1.4.1.19746.1.5.1.1.1.14	Number of KBytes written on NVRAM per second.
replInKBytesPerSecond 1.3.6.1.4.1.19746.1.5.1.1.1.15	Number of KBytes received for replication per second.
replOutKBytesPerSecond 1.3.6.1.4.1.19746.1.5.1.1.1.16	Number of KBytes sent for replication per second.

## diskStorage (1.3.6.1.4.1.19746.1.6)

Information in this section provides the type of disk storage objects, identification (OIDs), and descriptions.

### diskProperties (1.3.6.1.4.1.19746.1.6.1)

Object Type and ID	Description
diskPropertiesTable 1.3.6.1.4.1.19746.1.6.1.1	A table containing entries of diskPropertiesEntry.
diskPropertiesEntry 1.3.6.1.4.1.19746.1.6.1.1.1	Description of diskPropertiesTable row.
diskPropEnclosureID 1.3.6.1.4.1.19746.1.6.1.1.1.1	Enclosure ID of disk.
diskPropIndex 1.3.6.1.4.1.19746.1.6.1.1.1.2	Disk number.
diskPropTrapIndex 1.3.6.1.4.1.19746.1.6.1.1.1.3	Disk number for traps.
diskModel 1.3.6.1.4.1.19746.1.6.1.1.1.4	Manufacturer and model of the disk.

Object Type and ID	Description
diskFirmwareVersion 1.3.6.1.4.1.19746.1.6.1.1.1.5	Firmware version of the disk.
diskSerialNumber 1.3.6.1.4.1.19746.1.6.1.1.1.6	Serial number of the disk.
diskCapacity 1.3.6.1.4.1.19746.1.6.1.1.1.7	Capacity of the disk.
diskPropState 1.3.6.1.4.1.19746.1.6.1.1.1.8	Current state of the disk.
diskPack 1.3.6.1.4.1.19746.1.6.1.1.1.9	Pack information for the disk. Applicable to enclosures with packs, such as ES60, but not for ES20 or ES30.

## diskPerformance (1.3.6.1.4.1.19746.1.6.2)

Object Type and ID	Description
diskPerformanceTable 1.3.6.1.4.1.19746.1.6.2.1	A table containing entries of diskPerformanceEntry.
diskPerformanceEntry 1.3.6.1.4.1.19746.1.6.2.1.1	Description of diskPerformanceTable row.
diskPerfEnclosureID 1.3.6.1.4.1.19746.1.6.2.1.1.1	Enclosure ID of disk.
diskPerfIndex 1.3.6.1.4.1.19746.1.6.2.1.1.2	Disk number.
diskSectorsRead 1.3.6.1.4.1.19746.1.6.2.1.1.3	Number of disk sectors read per second.
diskSectorsWritten 1.3.6.1.4.1.19746.1.6.2.1.1.4	Number of disk sectors written per second.
diskTotalKBytes 1.3.6.1.4.1.19746.1.6.2.1.1.5	Total number of kilobytes read/written per second.
diskBusy 1.3.6.1.4.1.19746.1.6.2.1.1.6	Percentage of time disk is busy.
diskPerfState 1.3.6.1.4.1.19746.1.6.2.1.1.7	Current state of the disk.

## diskReliability (1.3.6.1.4.1.19746.1.6.3)

Object Type and ID	Description
diskReliabilityTable 1.3.6.1.4.1.19746.1.6.3.1	A table containing entries of diskReliabilityEntry.
diskReliabilityEntry 1.3.6.1.4.1.19746.1.6.3.1.1	Description of diskReliabilityTable row.

<b>Object Type and ID</b>	<b>Description</b>
diskErrEnclosureID 1.3.6.1.4.1.19746.1.6.3.1.1.1	Enclosure ID of disk.
diskErrIndex 1.3.6.1.4.1.19746.1.6.3.1.1.2	Disk number.
diskErrTrapIndex 1.3.6.1.4.1.19746.1.6.3.1.1.3	Disk number for traps.
diskTemperature 1.3.6.1.4.1.19746.1.6.3.1.1.4	Current disk temperature in Celsius.
diskTimeoutCount 1.3.6.1.4.1.19746.1.6.3.1.1.5	Number of command timeouts.
diskReadFailCount 1.3.6.1.4.1.19746.1.6.3.1.1.6	Number of read failures.
diskWriteFailCount 1.3.6.1.4.1.19746.1.6.3.1.1.7	Number of write failures.
diskMiscFailCount 1.3.6.1.4.1.19746.1.6.3.1.1.8	Number of miscellaneous failures.
diskOffTrackErrCount 1.3.6.1.4.1.19746.1.6.3.1.1.9	Number of off-track errors.
diskSoftEccCount 1.3.6.1.4.1.19746.1.6.3.1.1.10	Number of soft ECC errors.
diskCrcErrCount 1.3.6.1.4.1.19746.1.6.3.1.1.11	Number of CRC errors.
diskProbationalCount 1.3.6.1.4.1.19746.1.6.3.1.1.12	Number of probational errors.
diskReallocCount 1.3.6.1.4.1.19746.1.6.3.1.1.13	Number of reallocation errors.
diskErrState 1.3.6.1.4.1.19746.1.6.3.1.1.14	Current state of the disk.

## replication (1.3.6.1.4.1.19746.1.8)

Information in this section provides the type of replication objects, identification (OIDs), and descriptions.

### replicationInfo (1.3.6.1.4.1.19746.1.8.1)

<b>Object Type and ID</b>	<b>Description</b>
replicationInfoTable 1.3.6.1.4.1.19746.1.8.1.1	A table containing entries of replicationInfoEntry.
replicationInfoEntry 1.3.6.1.4.1.19746.1.8.1.1.1	Description of replicationInfoTable row.
replContext 1.3.6.1.4.1.19746.1.8.1.1.1.1	Context ID of replication source/destination pair.



<b>Object Type and ID</b>	<b>Description</b>
replTrapContext 1.3.6.1.4.1.19746.1.8.1.1.2	Context ID of replication source/destination pair for traps.
replState 1.3.6.1.4.1.19746.1.8.1.1.3	State of replication source/destination pair.
replStatus 1.3.6.1.4.1.19746.1.8.1.1.4	Status of replication source/destination pair connection.
replFileSysStatus 1.3.6.1.4.1.19746.1.8.1.1.5	Status of file system.
replConnTime 1.3.6.1.4.1.19746.1.8.1.1.6	The time the connection was established between source and destination, or if the status is "disconnected," the time since disconnect.
replSource 1.3.6.1.4.1.19746.1.8.1.1.7	Network path to replication source directory.
replDestination 1.3.6.1.4.1.19746.1.8.1.1.8	Network path to replication destination directory.
replPreCompBytesSent 1.3.6.1.4.1.19746.1.8.1.1.9	Pre-compression bytes sent.
replPostCompBytesSent 1.3.6.1.4.1.19746.1.8.1.1.10	Post-compression bytes sent.
replPreCompBytesRemaining 1.3.6.1.4.1.19746.1.8.1.1.11	Pre-compression bytes remaining.
replPostCompBytesReceived 1.3.6.1.4.1.19746.1.8.1.1.12	Post-compression bytes received.
replThrottle 1.3.6.1.4.1.19746.1.8.1.1.13	Replication throttle in bps: -1 = disabled, 0 = unlimited.
replSyncedAsOfTime 1.3.6.1.4.1.19746.1.8.1.1.14	Time when the source and destination were in sync; is zero if the time is unknown.

## replicationConfig (1.3.6.1.4.1.19746.1.8.2)

<b>Object Type and ID</b>	<b>Description</b>
replicationConfigTable 1.3.6.1.4.1.19746.1.8.2.1	A table containing entries of replicationConfigEntry.
replicationConfigEntry 1.3.6.1.4.1.19746.1.8.2.1.1	Description of replicationConfigTable row.
replConfigIndex 1.3.6.1.4.1.19746.1.8.2.1.1.1	Config Index identifier of replication source/destination pair.
replConfigContextId 1.3.6.1.4.1.19746.1.8.2.1.1.2	Config Context identifier of replication source/destination pair.
replConfigSource 1.3.6.1.4.1.19746.1.8.2.1.1.3	Source for replication source/destination pair connection.

Object Type and ID	Description
replConfigDest 1.3.6.1.4.1.19746.1.8.2.1.1.4	Destination for replication connection.
replConfigConnHost 1.3.6.1.4.1.19746.1.8.2.1.1.5	Host for replication connection.
replConfigConnPort 1.3.6.1.4.1.19746.1.8.2.1.1.6	Replication configuration port for connection.
replConfigLowBWOptim 1.3.6.1.4.1.19746.1.8.2.1.1.7	Replication configuration low-bandwidth optimization.
replConfigEnabled 1.3.6.1.4.1.19746.1.8.2.1.1.8	Replication configuration enabled.
replConfigTenantUnit 1.3.6.1.4.1.19746.1.8.2.1.1.9	Name of the Tenant Unit of a particular replication context.

### replicationHistory (1.3.6.1.4.1.19746.1.8.3)

Object Type and ID	Description
replicationHistoryTable 1.3.6.1.4.1.19746.1.8.3.1	A table containing entries of replicationHistoryEntry.
replicationHistoryEntry 1.3.6.1.4.1.19746.1.8.3.1.1	Description of replicationHistoryTable row.
replHistoryContext 1.3.6.1.4.1.19746.1.8.3.1.1.1	Context identifier of replication history source/destination pair.
replHistoryDate 1.3.6.1.4.1.19746.1.8.3.1.1.2	Replication history date.
replHistoryTime 1.3.6.1.4.1.19746.1.8.3.1.1.3	Replication history time
replHistoryPreCompWritten 1.3.6.1.4.1.19746.1.8.3.1.1.4	Replication history pre-compressed bytes written.
replHistoryPreCompRemaining 1.3.6.1.4.1.19746.1.8.3.1.1.5	Replication history pre-compressed bytes remaining.
replHistoryPreCompressed 1.3.6.1.4.1.19746.1.8.3.1.1.6	Replication history pre-compressed bytes.
replHistoryPostFiltered 1.3.6.1.4.1.19746.1.8.3.1.1.7	Replication history post-filtered bytes.
replHistoryPostLowBwOptim 1.3.6.1.4.1.19746.1.8.3.1.1.8	Replication history post-low-bandwidth optimization.
replHistoryPostLocalComp 1.3.6.1.4.1.19746.1.8.3.1.1.9	Replication history post-local compression.
replHistoryBytesNetwork 1.3.6.1.4.1.19746.1.8.3.1.1.10	Replication history network bytes.
replHistorySyncedAsOfTime 1.3.6.1.4.1.19746.1.8.3.1.1.11	Time when the replication history source and destination were in sync, or zero if the time is unknown.

## replicationPerformance (1.3.6.1.4.1.19746.1.8.4)

Object Type and ID	Description
replicationPerformanceTable 1.3.6.1.4.1.19746.1.8.4.1	A table containing entries of replicationPerformanceEntry.
replicationPerformanceEntry 1.3.6.1.4.1.19746.1.8.4.1.1	Description of replicationPerformanceTable row.
replPerformancePreCompKBPerSec 1.3.6.1.4.1.19746.1.8.4.1.1.1	Network (KB/s): The size value before compression is applied. Sometimes referred to as "logical size."
replPerformanceNetworkKBPerSec 1.3.6.1.4.1.19746.1.8.4.1.1.2	Network (KB/s): The amount of compressed data transferred over the network per second.
replPerformanceStreams 1.3.6.1.4.1.19746.1.8.4.1.1.3	An internal system resource associated with reads and writes. One replication context can use multiple streams for better performance.
replPerformanceBusyReading 1.3.6.1.4.1.19746.1.8.4.1.1.4	The time spent reading filesystem data from the local filesystem. Typically this number is the second highest number after Network. On a deployment with high network bandwidth, Reading may be the largest column.
replPerformanceBusyMeta 1.3.6.1.4.1.19746.1.8.4.1.1.5	The time spent on miscellaneous bookkeeping activities and replicating filesystem namespace operations. Typically this value is under 50. If this value exceeds 50 on a sustained basis, it may indicate an unusual workload (a large number of file attribute updates, for example).
replPerformanceWaitingDest 1.3.6.1.4.1.19746.1.8.4.1.1.6	The time spent waiting due to the receiver not providing the sender enough information on what data to send. Typically this value is low. Exceptions include systems on high-speed networks where the sender is a more powerful Data Domain system than the replica, or where the replica has a higher workload than the sender because the replica is the destination for multiple replication contexts.
replPerformanceWaitingNetwork 1.3.6.1.4.1.19746.1.8.4.1.1.7	The time spent waiting due to the receiver not providing the sender enough information on what data to send. Typically this value is low. Exceptions include systems on high-speed networks where the sender is a more powerful Data Domain system than the replica, or where the replica has a higher workload than the sender because the replica is the destination for multiple replication contexts.

## nfs (1.3.6.1.4.1.19746.1.9)

Information in this section provides the type of network file system (NFS) objects, identification (OIDs), and descriptions.

### nfsProperties (1.3.6.1.4.1.19746.1.9.1)

Object Type and ID	Description
nfsStatus 1.3.6.1.4.1.19746.1.9.1.1	Status of the network file system.

### nfsClient (1.3.6.1.4.1.19746.1.9.2)

Object Type and ID	Description
nfsClientTable 1.3.6.1.4.1.19746.1.9.2.1	A table containing entries of nfsClientEntry.
nfsClientEntry 1.3.6.1.4.1.19746.1.9.2.1.1	Description of nfsClientTable row.
nfsClientIndex 1.3.6.1.4.1.19746.1.9.2.1.1.1	NFS client index.
nfsClientPath 1.3.6.1.4.1.19746.1.9.2.1.1.2	NFS client path.
nfsClientClients 1.3.6.1.4.1.19746.1.9.2.1.1.3	List of NFS clients.
nfsClientOptions 1.3.6.1.4.1.19746.1.9.2.1.1.4	NFS client options.

### nfsStats (1.3.6.1.4.1.19746.1.9.3)

Object Type and ID	Description
nfsStatsTable 1.3.6.1.4.1.19746.1.9.3.1	A table containing entries of nfsStatsEntry.
nfsStatsEntry 1.3.6.1.4.1.19746.1.9.3.1.1	Description of nfsStatsTable row.
nfsStatsIndex 1.3.6.1.4.1.19746.1.9.3.1.1.1	NFS resource index.
nfsStatsExportPoint 1.3.6.1.4.1.19746.1.9.3.1.1.2	NFS export point.
nfsStatsFilesystemType 1.3.6.1.4.1.19746.1.9.3.1.1.3	File system type.
nfsStatsCacheEntry 1.3.6.1.4.1.19746.1.9.3.1.1.4	Number of cache entries.

<b>Object Type and ID</b>	<b>Description</b>
nfsStatsFileHandleLookup 1.3.6.1.4.1.19746.1.9.3.1.1.5	File handle lookup count.
nfsStatsMaxCacheSize 1.3.6.1.4.1.19746.1.9.3.1.1.6	Maximum cache size.
nfsStatsCurrentOpenStreams 1.3.6.1.4.1.19746.1.9.3.1.1.7	Current open stream count.

### nfsProcStats (1.3.6.1.4.1.19746.1.9.3.2)

<b>Object type and ID</b>	<b>Description</b>
nfsProcStatsTable 1.3.6.1.4.1.19746.1.9.3.2	A table containing entries of nfsProcStatsEntry.
nfsProcStatsEntry 1.3.6.1.4.1.19746.1.9.3.2.1	A description of nfsProcStatsEntry table row.
nfsProcStatsIndex 1.3.6.1.4.1.19746.1.9.3.2.1.1	NFS processing statistics index.
nfsProcStatsName 1.3.6.1.4.1.19746.1.9.3.2.1.2	NFS processing statistics names.
nfsProcStatsTotal 1.3.6.1.4.1.19746.1.9.3.2.1.3	NFS processing statistics total.
nfsProcStatsFailed 1.3.6.1.4.1.19746.1.9.3.2.1.4	Failed NFS processing statistics.
nfsProcStatsRetried 1.3.6.1.4.1.19746.1.9.3.2.1.5	Retried NFS processing statistics.

### nfsActive (1.3.6.1.4.1.19746.1.9.4)

<b>Object Type and ID</b>	<b>Description</b>
nfsActiveTable 1.3.6.1.4.1.19746.1.9.4.1	A table containing entries of nfsActiveEntry.
nfsActiveEntry 1.3.6.1.4.1.19746.1.9.4.1.1	Description of nfsActiveTable row.
nfsActiveIndex 1.3.6.1.4.1.19746.1.9.4.1.1.1	NFS active index.
nfsActivePath 1.3.6.1.4.1.19746.1.9.4.1.1.2	NFS active client path.
nfsActiveClients 1.3.6.1.4.1.19746.1.9.4.1.1.3	NFS active clients.

## nfsPort (1.3.6.1.4.1.19746.1.9.5)

Object Type and ID	Description
nfsPortTable 1.3.6.1.4.1.19746.1.9.5.1	A table containing entries of nfsPortEntry.
nfsPortEntry 1.3.6.1.4.1.19746.1.9.5.1.1	Description of nfsPortTable row.
nfsPortIndex 1.3.6.1.4.1.19746.1.9.5.1.1.1	NFS port index.
nfsPortService 1.3.6.1.4.1.19746.1.9.5.1.1.2	NFS port service name.
nfsPortPort 1.3.6.1.4.1.19746.1.9.5.1.1.3	NFS service port.

## cifs (1.3.6.1.4.1.19746.1.10)

Information in this section provides the type of common internet file system (CIFS) objects, identification (OIDs), and descriptions.

### cifsProperties (1.3.6.1.4.1.19746.1.10.1)

Object Type and ID	Description
cifsStatus 1.3.6.1.4.1.19746.1.10.1.1	CIFS status.

### cifsConfig (1.3.6.1.4.1.19746.1.10.2)

Object Type and ID	Description
cifsConfigMode 1.3.6.1.4.1.19746.1.10.2.1	CIFS configuration mode.
cifsConfigWINSServer 1.3.6.1.4.1.19746.1.10.2.2	CIFS WINS server.
cifsConfigNetBIOSHostname 1.3.6.1.4.1.19746.1.10.2.3	CIFS Net BIOS hostname.
cifsConfigDomainController 1.3.6.1.4.1.19746.1.10.2.4	CIFS domain controller.
cifsConfigDNS 1.3.6.1.4.1.19746.1.10.2.5	CIFS DNS server.
cifsConfigGroupName 1.3.6.1.4.1.19746.1.10.2.6	CIFS configuration group name.
cifsConfigMaxConnection 1.3.6.1.4.1.19746.1.10.2.7	CIFS configuration maximum connection.
cifsConfigMaxOpenFilesPerConnection 1.3.6.1.4.1.19746.1.10.2.8	Deprecated.

Object Type and ID	Description
cifsConfigMaxOpenFiles 1.3.6.1.4.1.19746.1.10.2.9	CIFS configuration maximum open files.

### cifsShare (1.3.6.1.4.1.19746.1.10.3)

Object Type and ID	Description
cifsShareTable 1.3.6.1.4.1.19746.1.10.3.1	A table containing entries of cifsShareEntry.
cifsShareEntry 1.3.6.1.4.1.19746.1.10.3.1.1	Description of cifsShareTable row.
cifsShareIndex 1.3.6.1.4.1.19746.1.10.3.1.1.1	CIFS share index.
cifsShareName 1.3.6.1.4.1.19746.1.10.3.1.1.2	CIFS share name.
cifsSharePath 1.3.6.1.4.1.19746.1.10.3.1.1.3	CIFS share path.
cifsShareClients 1.3.6.1.4.1.19746.1.10.3.1.1.4	CIFS share clients.
cifsShareUser 1.3.6.1.4.1.19746.1.10.3.1.1.5	CIFS share user.
cifsShareComment 1.3.6.1.4.1.19746.1.10.3.1.1.6	CIFS share comment.
cifsShareBrowsing 1.3.6.1.4.1.19746.1.10.3.1.1.7	CIFS share browsing.
cifsShareWriteable 1.3.6.1.4.1.19746.1.10.3.1.1.8	CIFS share writeable.
cifsShareMaxConnection 1.3.6.1.4.1.19746.1.10.3.1.1.9	CIFS share maximum connection.

### cifsOptions (1.3.6.1.4.1.19746.1.10.5)

Object Type and ID	Description
cifsOptionsTable 1.3.6.1.4.1.19746.1.10.5.1	A table containing entries of cifsOptionsEntry.
cifsOptionsEntry 1.3.6.1.4.1.19746.1.10.5.1.1	Description of cifsOptionsTable row.
cifsOptionsIndex 1.3.6.1.4.1.19746.1.10.5.1.1.1	CIFS options index.
cifsOptionsName 1.3.6.1.4.1.19746.1.10.5.1.1.2	CIFS options name.
cifsOptionsValue 1.3.6.1.4.1.19746.1.10.5.1.1.3	CIFS options value.

**cifsStats (1.3.6.1.4.1.19746.1.10.6)**

Object Type and ID	Description
cifsOperationStatsTable 1.3.6.1.4.1.19746.1.10.6.1	A table containing CIFS common operation statistical information.
cifsOperationStatsEntry 1.3.6.1.4.1.19746.1.10.6.1.1	Description of cifsOperationStatsEntry table row.
cifsOperationStatsIndex 1.3.6.1.4.1.19746.1.10.6.1.1.1	CIFS operation statistics index.
cifsOperationStatsName 1.3.6.1.4.1.19746.1.10.6.1.1.2	CIFS operation statistics name.
cifsOperationStatsInSvc 1.3.6.1.4.1.19746.1.10.6.1.1.3	CIFS operation statistics in SVC.
cifsOperationStatsTotalSvc 1.3.6.1.4.1.19746.1.10.6.1.1.4	Total CIFS operation statistics in SVC.
cifsOperationStatsError 1.3.6.1.4.1.19746.1.10.6.1.1.4	CIFS operation statistics error.

**vtl (1.3.6.1.4.1.19746.1.11)**

Information in this section provides the type of virtual tape library (VTL) objects, identification (OIDs), and descriptions.

**vtlProperties (1.3.6.1.4.1.19746.1.11.1)**

Object Type and ID	Description
vtlAdminState 1.3.6.1.4.1.19746.1.11.1.1	State of VTL administration.
vtlProcessState 1.3.6.1.4.1.19746.1.11.1.2	State of VTL process.

**vtlConfiguration (1.3.6.1.4.1.19746.1.11.2)**

Information in this subsection provides the type of VTL configuration objects, identification (OIDs), and descriptions.

**vtlLibrary (1.3.6.1.4.1.19746.1.11.2.1)**

Object Type and ID	Description
vtlLibraryTable 1.3.6.1.4.1.19746.1.11.2.1.1	A table containing entries of vtlLibraryEntry.
vtlLibraryEntry 1.3.6.1.4.1.19746.1.11.2.1.1.1	Description of vtlLibraryTable row.
vtlLibraryIndex 1.3.6.1.4.1.19746.1.11.2.1.1.1.1	VTL library index.



<b>Object Type and ID</b>	<b>Description</b>
vtLibraryName 1.3.6.1.4.1.19746.1.11.2.1.1.1.2	VTL library name.
vtLibraryVendor 1.3.6.1.4.1.19746.1.11.2.1.1.1.3	VTL library vendor.
vtLibraryModel 1.3.6.1.4.1.19746.1.11.2.1.1.1.4	VTL library model.
vtLibraryRevision 1.3.6.1.4.1.19746.1.11.2.1.1.1.5	VTL library revision.
vtLibrarySerial 1.3.6.1.4.1.19746.1.11.2.1.1.1.6	VTL library serial.
vtLibraryTotalDrives 1.3.6.1.4.1.19746.1.11.2.1.1.1.7	VTL library total drives.
vtLibraryTotalSlots 1.3.6.1.4.1.19746.1.11.2.1.1.1.8	VTL library total slots.
vtLibraryTotalCaps 1.3.6.1.4.1.19746.1.11.2.1.1.1.9	VTL library total caps.
vtLibraryStatus 1.3.6.1.4.1.19746.1.11.2.1.1.1.10	VTL library status.

#### **vtIDrive (1.3.6.1.4.1.19746.1.11.2.2)**

<b>Object Type and ID</b>	<b>Description</b>
vtIDriveTable 1.3.6.1.4.1.19746.1.11.2.2.1	A table containing entries of vtIDriveEntry.
vtIDriveEntry 1.3.6.1.4.1.19746.1.11.2.2.1.1	Description of vtIDriveTable row.
vtIDriveIndex 1.3.6.1.4.1.19746.1.11.2.2.1.1.1	VTL drive index.
vtIDriveName 1.3.6.1.4.1.19746.1.11.2.2.1.1.2	VTL drive name.
vtIDriveVendor 1.3.6.1.4.1.19746.1.11.2.2.1.1.3	VTL drive vendor.
vtIDriveModel 1.3.6.1.4.1.19746.1.11.2.2.1.1.4	VTL drive model.
vtIDriveRevision 1.3.6.1.4.1.19746.1.11.2.2.1.1.5	VTL drive revision.
vtIDriveSerial 1.3.6.1.4.1.19746.1.11.2.2.1.1.6	VTL drive serial.
vtIDriveLibraryName 1.3.6.1.4.1.19746.1.11.2.2.1.1.7	VTL drive library name.
vtIDriveStatus 1.3.6.1.4.1.19746.1.11.2.2.1.1.8	VTL drive status.
vtIDriveTapeVolume 1.3.6.1.4.1.19746.1.11.2.2.1.1.9	VTL drive tape volume.

**vtlPort (1.3.6.1.4.1.19746.1.11.2.3)**

<b>Object Type and ID</b>	<b>Description</b>
vtlPortTable 1.3.6.1.4.1.19746.1.11.2.3.1	A table containing entries of vtlPortEntry.
vtlPortEntry 1.3.6.1.4.1.19746.1.11.2.3.1.1	Description of vtlPortTable row.
vtlPortIndex 1.3.6.1.4.1.19746.1.11.2.3.1.1.1	VTL port index.
vtlPortName 1.3.6.1.4.1.19746.1.11.2.3.1.1.2	VTL port name.
vtlPortID 1.3.6.1.4.1.19746.1.11.2.3.1.1.3	VTL port identifier.
vtlPortModel 1.3.6.1.4.1.19746.1.11.2.3.1.1.4	VTL port model.
vtlPortFirmware 1.3.6.1.4.1.19746.1.11.2.3.1.1.5	VTL port firmware version.
vtlPortWWNN 1.3.6.1.4.1.19746.1.11.2.3.1.1.6	VTL port WWNN (World Wide Node Name) address.
vtlPortWWPN 1.3.6.1.4.1.19746.1.11.2.3.1.1.7	VTL port WWPN (World Wide Port Name) address.
vtlPortConnectionType 1.3.6.1.4.1.19746.1.11.2.3.1.1.8	VTL port connection type.
vtlPortSpeed 1.3.6.1.4.1.19746.1.11.2.3.1.1.9	VTL port speed in Gbps.
vtlPortEnabled 1.3.6.1.4.1.19746.1.11.2.3.1.1.10	VTL port enabled.
vtlPortStatus 1.3.6.1.4.1.19746.1.11.2.3.1.1.11	VTL port status.
vtlPortTrapIndex 1.3.6.1.4.1.19746.1.11.2.3.1.1.12	VTL port trap index.

**vtlTape (1.3.6.1.4.1.19746.1.11.2.4)**

<b>Object Type and ID</b>	<b>Description</b>
vtlTapeTable 1.3.6.1.4.1.19746.1.11.2.4.1	A table containing entries of vtlTapeEntry.
vtlTapeEntry 1.3.6.1.4.1.19746.1.11.2.4.1.1	Description of vtlTapeTable row.
vtlTapeIndex 1.3.6.1.4.1.19746.1.11.2.4.1.1.1	VTL tape index.
vtlTapeBarCode 1.3.6.1.4.1.19746.1.11.2.4.1.1.2	VTL tape barcode.
vtlTapePool 1.3.6.1.4.1.19746.1.11.2.4.1.1.3	VTL tape pool.
vtlTapeLocation 1.3.6.1.4.1.19746.1.11.2.4.1.1.4	VTL tape location.
vtlTapeState 1.3.6.1.4.1.19746.1.11.2.4.1.1.5	VTL tape state.

Object Type and ID	Description
vtlTapeSize 1.3.6.1.4.1.19746.1.11.2.4.1.1.6	VTL tape size.
vtlTapeUsed 1.3.6.1.4.1.19746.1.11.2.4.1.1.7	VTL tape used.
vtlTapeComp 1.3.6.1.4.1.19746.1.11.2.4.1.1.8	VTL tape compression.
vtlTapeModTime 1.3.6.1.4.1.19746.1.11.2.4.1.1.9	VTL tape status.

#### vtlPool (1.3.6.1.4.1.19746.1.11.2.6)

Object Type and ID	Description
vtlPoolTable 1.3.6.1.4.1.19746.1.11.2.6.1	A table containing entries of vtlPoolEntry.
vtlPoolEntry 1.3.6.1.4.1.19746.1.11.2.6.1.1	Description of vtlPoolTable row.
vtlPoolIndex 1.3.6.1.4.1.19746.1.11.2.6.1.1.1	VTL pool index.
vtlPoolPool 1.3.6.1.4.1.19746.1.11.2.6.1.1.2	VTL pool pool.
vtlPoolStatus 1.3.6.1.4.1.19746.1.11.2.6.1.1.3	VTL pool status.
vtlPoolTapes 1.3.6.1.4.1.19746.1.11.2.6.1.1.4	VTL pool tapes.
vtlPoolSize 1.3.6.1.4.1.19746.1.11.2.6.1.1.5	VTL pool size.
vtlPoolUsed 1.3.6.1.4.1.19746.1.11.2.6.1.1.6	VTL pool used.
vtlPoolComp 1.3.6.1.4.1.19746.1.11.2.6.1.1.7	VTL pool compression.

#### vtlGroups (1.3.6.1.4.1.19746.1.11.2.7)

Object Type and ID	Description
vtlGroupTable 1.3.6.1.4.1.19746.1.11.2.7.1	A table containing entries of vtlGroupEntry.
vtlGroupEntry 1.3.6.1.4.1.19746.1.11.2.7.1.1	Description of vtlGroupTable row.
vtlGroupIndex 1.3.6.1.4.1.19746.1.11.2.7.1.1.1	VTL group index.
vtlGroupName 1.3.6.1.4.1.19746.1.11.2.7.1.1.2	VTL group name.
vtlGroupInitiatorCount 1.3.6.1.4.1.19746.1.11.2.7.1.1.3	VTL group initiator count.
vtlGroupDeviceCount 1.3.6.1.4.1.19746.1.11.2.7.1.1.4	VTL group device count.

<b>Object Type and ID</b>	<b>Description</b>
vtlGroupDeviceTable 1.3.6.1.4.1.19746.1.11.2.7.2	A table containing information about the devices in VTL groups. It provides information such as the Device Name, Device LUN, Primary Ports, Secondary Ports, In-Use Ports, and Group Name. It is comprised of entries of vtlGroupDeviceEntry.
vtlGroupDeviceEntry 1.3.6.1.4.1.19746.1.11.2.7.2.1	Description of vtlGroupDeviceTable row.
vtlGroupDeviceIndex 1.3.6.1.4.1.19746.1.11.2.7.2.1.2	Index of a VTL device.
vtlGroupDeviceGroupName 1.3.6.1.4.1.19746.1.11.2.7.2.1.3	Name of a VTL group.
vtlGroupDeviceDeviceName 1.3.6.1.4.1.19746.1.11.2.7.2.1.4	Name of a VTL device.
vtlGroupDeviceLun 1.3.6.1.4.1.19746.1.11.2.7.2.1.5	LUN (logical unit number) of a VTL device.
vtlGroupDevicePrimaryPorts 1.3.6.1.4.1.19746.1.11.2.7.2.1.6	Primary ports of a VTL device. This entry specifies a set of ports on which the device will be visible. If “all” is provided, the device is visible on all ports. If “none” is provided, the device is visible on none of the ports.
vtlGroupDeviceSecondaryPorts 1.3.6.1.4.1.19746.1.11.2.7.2.1.7	Secondary ports of a VTL device. This entry specifies a second set of ports on which the device will be visible. The administrator can switch the ports in use in a group to the primary or secondary port list.
vtlGroupDeviceInUsePorts 1.3.6.1.4.1.19746.1.11.2.7.2.1.8	In-use ports of a VTL device. The port list on which the device is visible is the in-use port list, which can be the primary or secondary port list.

#### **vtlInitiator (1.3.6.1.4.1.19746.1.11.2.8)**

<b>Object Type and ID</b>	<b>Description</b>
vtlInitiatorTable 1.3.6.1.4.1.19746.1.11.2.8.1	A table containing entries of vtlInitiatorEntry.
vtlInitiatorEntry 1.3.6.1.4.1.19746.1.11.2.8.1.1	Description of vtlInitiatorTable row.
vtlInitiatorIndex 1.3.6.1.4.1.19746.1.11.2.8.1.1.1	VTL initiator index.
vtlInitiatorName 1.3.6.1.4.1.19746.1.11.2.8.1.1.2	VTL initiator name.
vtlInitiatorStatus 1.3.6.1.4.1.19746.1.11.2.8.1.1.3	VTL initiator status.
vtlInitiatorGroup 1.3.6.1.4.1.19746.1.11.2.8.1.1.4	VTL initiator group.
vtlInitiatorWWNN 1.3.6.1.4.1.19746.1.11.2.8.1.1.5	VTL initiator WWNN (World Wide Node Name).

Object Type and ID	Description
vtlInitiatorWWPN 1.3.6.1.4.1.19746.1.11.2.8.1.1.6	VTL initiator WWPN (World Wide Port Name).
vtlInitiatorPort 1.3.6.1.4.1.19746.1.11.2.8.1.1.7	VTL initiator port.

### vtlStats (1.3.6.1.4.1.19746.1.11.3)

Information in this subsection provides the type of VTL statistics objects, identification (OIDs), and descriptions.

Object Type and ID	Description
vtlStatsTable 1.3.6.1.4.1.19746.1.11.3.1	This table contains detailed statistical information about the individual VTL ports on a Data Domain System. It includes the count of control commands, write commands, and read commands; the amount of data in and out; the count of link failures, LIPs, sync losses, signal losses, Prim Seq Proto Errors, Invalid Tx Words, and invalid CRCs. It contains entries of vtlStatsEntry.
vtlStatsEntry 1.3.6.1.4.1.19746.1.11.3.1.1	Description of vtlStatsTable row.
vtlStatsIndex 1.3.6.1.4.1.19746.1.11.3.1.1.1	VTL statistics index, which is the index of the VTL per-port statistical entry.
vtlStatsPort 1.3.6.1.4.1.19746.1.11.3.1.1.2	VTL statistics port, which is the physical VTL port number.
vtlStatsConrolCommands 1.3.6.1.4.1.19746.1.11.3.1.1.3	VTL statistics control commands, which is the number of non read/write commands.
vtlStatsWriteCommands 1.3.6.1.4.1.19746.1.11.3.1.1.4	VTL statistics write commands, which is the number of WRITE commands.
vtlStatsReadCommands 1.3.6.1.4.1.19746.1.11.3.1.1.5	VTL statistics read commands, which is the number of READ commands.
vtlStatsIn 1.3.6.1.4.1.19746.1.11.3.1.1.6	VTL statistics in, which is the number of megabytes written to the specific port.
vtlStatsOut 1.3.6.1.4.1.19746.1.11.3.1.1.7	VTL statistics out, which is the number of megabytes read from the specific port.
vtlStatsLinkFailures 1.3.6.1.4.1.19746.1.11.3.1.1.8	VTL statistics link failures, which is the count of link failures.
vtlStatsLIPCount 1.3.6.1.4.1.19746.1.11.3.1.1.9	VTL statistics LIP count, which is the number of loop initialization processes.
vtlStatsSyncLosses 1.3.6.1.4.1.19746.1.11.3.1.1.10	VTL statistics sync losses, which is the number of times sync loss was detected.
vtlStatsSignalLosses 1.3.6.1.4.1.19746.1.11.3.1.1.11	VTL statistics signal losses, which is the number of times loss of signal was detected.

Object Type and ID	Description
vtlStatsPrimSeqProtoErrors 1.3.6.1.4.1.19746.1.11.3.1.1.12	VTL statistics Prim Seq Proto Errors, which is the number of errors in the primitive sequence protocol.
vtlStatsInvalidTxWords 1.3.6.1.4.1.19746.1.11.3.1.1.13	VTL statistics Invalid Tx Words, which is the number of words that were not transmitted successfully.
vtlStatsInvalidCRCs 1.3.6.1.4.1.19746.1.11.3.1.1.14	VTL statistics invalid CRCs, which is the number of frames received with bad cyclic redundancy checks.

## ddboost (1.3.6.1.4.1.19746.1.12)

Information in this section provides the type of DD Boost objects, identification (OIDs), and descriptions.

### ddboostProperties (1.3.6.1.4.1.19746.1.12.1)

Object Type and ID	Description
ddboostStatus 1.3.6.1.4.1.19746.1.12.1.1	DD Boost status.
ddboostUser 1.3.6.1.4.1.19746.1.12.1.2	Deprecated and replaced by ddboostIfGroupTable.
ddboostIfGroupStatus 1.3.6.1.4.1.19746.1.12.1.3	Deprecated and replaced by ddboostIfGroupTable.
ddboostUserTable 1.3.6.1.4.1.19746.1.12.1.4	A table containing entries of ddboostUserEntry.
ddboostUserEntry 1.3.6.1.4.1.19746.1.12.1.4.1	Description of ddboostUserTable row.
ddboostUserIdx 1.3.6.1.4.1.19746.1.12.1.4.1.1	DD Boost user table index.
ddboostUserName 1.3.6.1.4.1.19746.1.12.1.4.1.2	DD Boost user table name.
ddboostUserDefaultTenantUnit 1.3.6.1.4.1.19746.1.12.1.4.1.3	DD Boost user default Tenant Unit.
ddboostIfGroupTable 1.3.6.1.4.1.19746.1.12.1.5	DD Boost IfGroup table containing interface group information.
ddboostIfGroupIdx 1.3.6.1.4.1.19746.1.12.1.5.1.1	DD Boost IfGroup table index.
ddboostIfGroupName 1.3.6.1.4.1.19746.1.12.1.5.1.2	Name of the DD Boost IfGroup.
ddboostIfGroupCurrentStatus 1.3.6.1.4.1.19746.1.12.1.5.1.3	Status of a DD Boost IfGroup. Possible values are "enabled" or "disabled".

**ddboostStats (1.3.6.1.4.1.19746.1.12.2)**

<b>Object Type and ID</b>	<b>Description</b>
ddboostStatsTable 1.3.6.1.4.1.19746.1.12.2.1	Table containing DD Boost byte statistics information.
ddboostStatsEntry 1.3.6.1.4.1.19746.1.12.2.1.1	Description of ddboostStatsTable row.
ddboostStatsIndex 1.3.6.1.4.1.19746.1.12.2.1.1.1	DD Boost statistics table index.
ddboostPreCompKBytesPerSecond 1.3.6.1.4.1.19746.1.12.2.1.1.2	Number of DD Boost pre-compressed (logical) bytes received per second.
ddboostPostCompKBytesPerSecond 1.3.6.1.4.1.19746.1.12.2.1.1.3	Number of DD Boost local compression bytes received per second.
ddboostNetworkKBytesPerSecond 1.3.6.1.4.1.19746.1.12.2.1.1.4	Number of DD Boost physical network bytes received per second.
ddboostReadKBytesPerSecond 1.3.6.1.4.1.19746.1.12.2.1.1.5	Number of DD Boost bytes read per second.
ddboostStatsBackupConn 1.3.6.1.4.1.19746.1.12.2.1.1.6	Number of DD Boost backup connections.
ddboostStatsRestoreConn 1.3.6.1.4.1.19746.1.12.2.1.1.7	Number of DD Boost restore connections.
ddboostStatsImageCreatesCount 1.3.6.1.4.1.19746.1.12.2.1.1.8	Number of DD Boost image creates.
ddboostStatsImageCreatesErrors 1.3.6.1.4.1.19746.1.12.2.1.1.9	Number of DD Boost image creates errors.
ddboostStatsImageDeletesCount 1.3.6.1.4.1.19746.1.12.2.1.1.10	Number of DD Boost image deletes.
ddboostStatsImageDeletesErrors 1.3.6.1.4.1.19746.1.12.2.1.1.11	Number of DD Boost image deletes errors.
ddboostStatsPrecompBytesReceived 1.3.6.1.4.1.19746.1.12.2.1.1.12	Number of DD Boost pre-compressed (logical) bytes received.
ddboostStatsBytesAfterFiltering 1.3.6.1.4.1.19746.1.12.2.1.1.13	Number of DD Boost bytes after filtering.
ddboostStatsBytesAfterLc 1.3.6.1.4.1.19746.1.12.2.1.1.14	Number of DD Boost bytes after local compression.
ddboostStatsNetworkBytesReceived 1.3.6.1.4.1.19746.1.12.2.1.1.15	Number of DD Boost network bytes received.
ddboostStatsCompressionRatio 1.3.6.1.4.1.19746.1.12.2.1.1.16	DD Boost compression ratio.
ddboostStatsTotalBytesReadCount 1.3.6.1.4.1.19746.1.12.2.1.1.17	Total number of DD Boost bytes read.
ddboostStatsTotalBytesReadErrors 1.3.6.1.4.1.19746.1.12.2.1.1.18	Total number of DD Boost bytes read errors.

### ddboostConnections (1.3.6.1.4.1.19746.1.12.3)

Object Type and ID	Description
ddboostConnectionsTable 1.3.6.1.4.1.19746.1.12.3.1	Connections table information for DD Boost client connections.
ddboostConnectionsEntry 1.3.6.1.4.1.19746.1.12.3.1.1	Description of ddboostConnectionsTable row.
ddboostConnectionsIndex 1.3.6.1.4.1.19746.1.12.3.1.1.1	DD Boost connections table index.
ddboostInterface 1.3.6.1.4.1.19746.1.12.3.1.1.2	DD Boost interface name.
ddboostIfGroupMember 1.3.6.1.4.1.19746.1.12.3.1.1.3	If member of ifGroup.
ddboostBackupConnections 1.3.6.1.4.1.19746.1.12.3.1.1.4	DD Boost backup connections.
ddboostRestoreConnections 1.3.6.1.4.1.19746.1.12.3.1.1.5	DD Boost restore connections.
ddboostControlConnections 1.3.6.1.4.1.19746.1.12.3.1.1.6	DD Boost control connections.
ddboostTotalConnections 1.3.6.1.4.1.19746.1.12.3.1.1.7	DD Boost total connections.

### ddboostStorageUnit (1.3.6.1.4.1.19746.1.12.4)

Object Type and ID	Description
ddboostStorageUnitTable 1.3.6.1.4.1.19746.1.12.4.1	Storage unit table information for DD Boost storage units.
ddboostStorageUnitEntry 1.3.6.1.4.1.19746.1.12.4.1.1	Description of ddboostStorageUnitTable row.
ddboostStorageUnitIndex 1.3.6.1.4.1.19746.1.12.4.1.1.1	DD Boost storage unit table index.
ddboostStorageUnitName 1.3.6.1.4.1.19746.1.12.4.1.1.2	DD Boost storage unit name.
ddboostStorageUnitBytes 1.3.6.1.4.1.19746.1.12.4.1.1.3	DD Boost storage unit original bytes.
ddboostStorageUnitGlobalComp 1.3.6.1.4.1.19746.1.12.4.1.1.4	DD Boost storage unit globally compressed bytes.
ddboostStorageUnitLocalComp 1.3.6.1.4.1.19746.1.12.4.1.1.5	DD Boost storage unit local compressed bytes.
ddboostStorageUnitMetaData 1.3.6.1.4.1.19746.1.12.4.1.1.6	DD Boost storage unit meta data.
ddboostStorageUnitStatus 1.3.6.1.4.1.19746.1.12.4.1.1.7	DD Boost storage unit status.



Object Type and ID	Description
ddboostStorageUnitPreComp 1.3.6.1.4.1.19746.1.12.4.1.1.8	DD Boost storage unit pre-compression rate.
ddboostStorageUnitUser 1.3.6.1.4.1.19746.1.12.4.1.1.9	DD Boost storage user.
ddboostStorageUnitReportPhysicalSize 1.3.6.1.4.1.19746.1.12.4.1.1.10	DD Boost storage unit report physical size.

## ddboostFileReplicationStats (1.3.6.1.4.1.19746.1.12.5)

Object Type and ID	Description
ddboostFileReplicationStatsTable 1.3.6.1.4.1.19746.1.12.5.1	Table containing information for DD Boost file replication statistics.
ddboostFileReplicationStatsEntry 1.3.6.1.4.1.19746.1.12.5.1.1	Description of ddboostFileReplicationStatsTable row.
ddboostFileReplStatsIndex 1.3.6.1.4.1.19746.1.12.5.1.1.1	DD Boost file replication statistics – table index.
ddboostFileReplStatsDirection 1.3.6.1.4.1.19746.1.12.5.1.1.2	DD Boost file replication statistics – direction.
ddboostFileReplStatsNetworkSent 1.3.6.1.4.1.19746.1.12.5.1.1.3	DD Boost file replication statistics – network bytes sent.
ddboostFileReplStatsPreCompSent 1.3.6.1.4.1.19746.1.12.5.1.1.4	DD Boost file replication statistics – pre-compressed bytes sent.
ddboostFileReplStatsFiltered 1.3.6.1.4.1.19746.1.12.5.1.1.5	DD Boost file replication statistics – bytes after filtering.
ddboostFileReplStatsLowBWOpt 1.3.6.1.4.1.19746.1.12.5.1.1.6	DD Boost file replication statistics – bytes after low bandwidth optimization.
ddboostFileReplStatsLocalComp 1.3.6.1.4.1.19746.1.12.5.1.1.7	DD Boost file replication statistics – bytes after local compression.
ddboostFileReplStatsCompRatio 1.3.6.1.4.1.19746.1.12.5.1.1.8	DD Boost file replication statistics – compressed ratio.

## ddboostFileReplicationHistory (1.3.6.1.4.1.19746.1.12.6)

Object Type and ID	Description
ddboostFileReplicationHistoryTable 1.3.6.1.4.1.19746.1.12.6.1	Table containing information for DD Boost file replication history.
ddboostFileReplicationHistoryEntry 1.3.6.1.4.1.19746.1.12.6.1.1	Description of ddboostFileReplicationHistoryTable row.
ddboostFileReplHistoryIndex 1.3.6.1.4.1.19746.1.12.6.1.1.1	DD Boost file replication history – table index.
ddboostFileReplHistoryDirection 1.3.6.1.4.1.19746.1.12.6.1.1.2	DD Boost file replication history – direction.

Object Type and ID	Description
ddboostFileReplHistoryNetwork 1.3.6.1.4.1.19746.1.12.6.1.1.3	DD Boost file replication history – network kilobytes sent.
ddboostFileReplHistoryPreComp 1.3.6.1.4.1.19746.1.12.6.1.1.4	DD Boost file replication history – pre-compressed kilobytes sent.
ddboostFileReplHistoryPostComp 1.3.6.1.4.1.19746.1.12.6.1.1.5	DD Boost file replication history – post-compressed kilobytes.
ddboostFileReplHistoryLowBWOpt 1.3.6.1.4.1.19746.1.12.6.1.1.6	DD Boost file replication history – kilobytes after low bandwidth optimization.
ddboostFileReplHistoryErrors 1.3.6.1.4.1.19746.1.12.6.1.1.7	DD Boost file replication history – errors.
ddboostFileReplHistoryDate 1.3.6.1.4.1.19746.1.12.6.1.1.8	DD Boost file replication history – date.
ddboostFileReplHistoryTime 1.3.6.1.4.1.19746.1.12.6.1.1.9	DD Boost file replication history – time.

### ddboostIfGroupConfig (1.3.6.1.4.1.19746.1.12.7)

Object Type and ID	Description
ddboostIfGroupConfigTable 1.3.6.1.4.1.19746.1.12.7.1	Table containing information for DD Boost ifGroup configuration.
ddboostIfGroupConfigEntry 1.3.6.1.4.1.19746.1.12.7.1.1	Description of ddboostIfGroupConfigTable row.
ddboostIfGroupConfigIndex 1.3.6.1.4.1.19746.1.12.7.1.1.1	DD Boost ifGroup configuration – table index.
ddboostIfGroupInterface 1.3.6.1.4.1.19746.1.12.7.1.1.2	DD Boost ifGroup configuration – interface name.

### ddboostAccessClients (1.3.6.1.4.1.19746.1.12.8)

Object Type and ID	Description
ddboostAccessClientsTable 1.3.6.1.4.1.19746.1.12.8.1	Table containing information for DD Boost access client configuration.
ddboostAccessClientsEntry 1.3.6.1.4.1.19746.1.12.8.1.1	Description of ddboostAccessClientsTable row.
ddboostAccessClientsIndex 1.3.6.1.4.1.19746.1.12.8.1.1.1	Table index for the DD Boost access client.
ddboostAccessClientsName 1.3.6.1.4.1.19746.1.12.8.1.1.2	Name for the DD Boost access client.
ddboostAccessClientsEncryStrength 1.3.6.1.4.1.19746.1.12.8.1.1.3	Encryption strength used by the DD Boost access client. Possible values are none, medium and high.
ddboostAccessClientsAuthMode 1.3.6.1.4.1.19746.1.12.8.1.1.4	Authentication mode used by the DD Boost access client. Possible values are none, one-way, two-way, and anonymous.

## ddboostOptions (1.3.6.1.4.1.19746.1.12.9)

Object Type and ID	Description
ddboostOptionsTable 1.3.6.1.4.1.19746.1.12.9.1	Table containing information for DD Boost options.
ddboostOptionsEntry 1.3.6.1.4.1.19746.1.12.9.1.1	Description of ddboostOptionsTable row.
ddboostOptionsIndex 1.3.6.1.4.1.19746.1.12.9.1.1.1	DD Boost option table index.
ddboostOptionsName 1.3.6.1.4.1.19746.1.12.9.1.1.2	DD Boost option value name.
ddboostOptionsStatus 1.3.6.1.4.1.19746.1.12.9.1.1.3	DD Boost option status enabled/disabled.

## ddboostFileReplicationPerformance (1.3.6.1.4.1.19746.1.12.10)

Object Type and ID	Description
ddboostFileRepliPerfInPreCompKBPerSec 1.3.6.1.4.1.19746.1.12.10.1	DD Boost file replication performance inbound pre-comp kilobytes per second.
ddboostFileRepliPerfInNetworkKBPerSec 1.3.6.1.4.1.19746.1.12.10.2	DD Boost file replication performance inbound network kilobytes per second.
ddboostFileRepliPerfOutPreCompKBPerSec 1.3.6.1.4.1.19746.1.12.10.3	DD Boost file replication performance outbound pre-comp kilobytes per second.
ddboostFileRepliPerfOutNetworkKBPerSec 1.3.6.1.4.1.19746.1.12.10.4	DD Boost file replication performance outbound network kilobytes per second.

## dataDomainSystem (1.3.6.1.4.1.19746.1.13)

Information in this section provides the type of Data Domain system objects, identification (OIDs), and description.

### systemProperties (1.3.6.1.4.1.19746.1.13.1)

Object Type and ID	Description
systemSerialNumber 1.3.6.1.4.1.19746.1.13.1.1	Serial number of the Data Domain system.
systemCurrentTime 1.3.6.1.4.1.19746.1.13.1.2	Current time of the Data Domain system.
systemVersion 1.3.6.1.4.1.19746.1.13.1.3	Current version of the Data Domain system.
systemModelNumber 1.3.6.1.4.1.19746.1.13.1.4	Model number of the Data Domain system.

Object Type and ID	Description
systemTimeZoneName 1.3.6.1.4.1.19746.1.13.1.5	Time zone name of the Data Domain system.
sysNotes 1.3.6.1.4.1.19746.1.13.1.6	Customer-defined notes associated with this DD System.
systemAvailabilityResetTime 1.3.6.1.4.1.19746.1.13.1.7	Time from which availability information is measured.
systemAvailability 1.3.6.1.4.1.19746.1.13.1.8	System availability.
systemAvailabilityExcCtrlDowntime 1.3.6.1.4.1.19746.1.13.1.9	System availability excluding controlled downtime.
systemFsAvailability 1.3.6.1.4.1.19746.1.13.1.10	Filesystem availability.
systemFsAvailabilityExcCtrlDowntime 1.3.6.1.4.1.19746.1.13.1.11	Filesystem availability excluding controlled downtime.

## systemHardware (1.3.6.1.4.1.19746.1.13.2)

Object Type and ID	Description
systemHardwareTable 1.3.6.1.4.1.19746.1.13.2.1	A table containing entries of systemHardwareEntry.
systemHardwareEntry 1.3.6.1.4.1.19746.1.13.2.1.1	Description of systemHardwareTable row.
systemHardwareIndex 1.3.6.1.4.1.19746.1.13.2.1.1.1	System hardware row index.
systemHardwareSlot 1.3.6.1.4.1.19746.1.13.2.1.1.2	Deprecated and replaced by systemHardwareSlotName.
systemHardwareVendor 1.3.6.1.4.1.19746.1.13.2.1.1.3	System hardware slot device vendor.
systemHardwareDevice 1.3.6.1.4.1.19746.1.13.2.1.1.4	System hardware slot device.
systemHardwarePorts 1.3.6.1.4.1.19746.1.13.2.1.1.5	System hardware slot ports.
systemHardwareSlotName 1.3.6.1.4.1.19746.1.13.2.1.1.6	System hardware slot name.

## systemPorts (1.3.6.1.4.1.19746.1.13.3)

Object Type and ID	Description
systemPortsTable 1.3.6.1.4.1.19746.1.13.3.1	A table containing entries of systemPortsEntry.
systemPortsEntry 1.3.6.1.4.1.19746.1.13.3.1.1	Description of systemPortsTable row.

<b>Object Type and ID</b>	<b>Description</b>
systemPortsIndex 1.3.6.1.4.1.19746.1.13.3.1.1.1	System ports row index.
systemPortsPort 1.3.6.1.4.1.19746.1.13.3.1.1.2	System ports port name.
systemPortsConnectionType 1.3.6.1.4.1.19746.1.13.3.1.1.3	System ports link speed connection type.
systemPortsLinkSpeed 1.3.6.1.4.1.19746.1.13.3.1.1.4	System ports link speed.
systemPortsFirmware 1.3.6.1.4.1.19746.1.13.3.1.1.5	System ports slot ports.
systemPortsHardwareAddress 1.3.6.1.4.1.19746.1.13.3.1.1.6	System ports hardware address.

## **systemLicense (1.3.6.1.4.1.19746.1.13.4)**

<b>Object Type and ID</b>	<b>Description</b>
systemLicenseTable 1.3.6.1.4.1.19746.1.13.4.1	A table containing entries of systemLicenseEntry.
systemLicenseEntry 1.3.6.1.4.1.19746.1.13.4.1.1	Description of systemLicenseTable row.
systemLicenseIndex 1.3.6.1.4.1.19746.1.13.4.1.1.1	System license row index.
systemLicenseKey 1.3.6.1.4.1.19746.1.13.4.1.1.2	System license key.
systemLicenseFeature 1.3.6.1.4.1.19746.1.13.4.1.1.3	Feature for the system license.

### **systemCapacityLicense (1.3.6.1.4.1.19746.1.13.4.2)**

<b>Object Type and ID</b>	<b>Description</b>
systemCapacityLicenseTable 1.3.6.1.4.1.19746.1.13.4.2.1	A table containing entries of systemCapacityLicenseEntry.
systemCapacityLicenseEntry 1.3.6.1.4.1.19746.1.13.4.2.1.1	Description of systemCapacityLicenseTable row.
systemCapacityLicenseIndex 1.3.6.1.4.1.19746.1.13.4.2.1.1.1	System capacity license row index.
systemCapacityLicenseKey 1.3.6.1.4.1.19746.1.13.4.2.1.1.2	System capacity license key.
systemCapacityLicenseFeature 1.3.6.1.4.1.19746.1.13.4.2.1.1.3	Capacity feature for the system license.
systemCapacityLicenseModel 1.3.6.1.4.1.19746.1.13.4.2.1.1.4	Model for the feature of the system license.
systemCapacityLicenseCapacity 1.3.6.1.4.1.19746.1.13.4.2.1.1.5	Capacity of the model.

**elicenseLockingId (1.3.6.1.4.1.19746.1.13.4.3)**

Object Type and ID	Description
elicenseLockingId 1.3.6.1.4.1.19746.1.13.4.3	The locking attributes of a DD System. It is used when activating licenses for the system on the ELMS License Portal. The attributes of the system are provided in a single encrypted string.

**elicenseSwid (1.3.6.1.4.1.19746.1.13.4.4)**

Object Type and ID	Description
elicenseSwid 1.3.6.1.4.1.19746.1.13.4.4	The SWID is the Software Unique Identifier for a DD System.

**elicenseLastModifiedTime (1.3.6.1.4.1.19746.1.13.4.5)**

Object Type and ID	Description
elicenseLastModifiedTime 1.3.6.1.4.1.19746.1.13.4.5	The date and time that the Electronic Licensing Management System (ELMS) license file was modified last. It is given in YYYY-MM-DD HH:MM:SS format. If the file has not been modified, this object may be empty.

**elicenseFeatureLicenseTable (1.3.6.1.4.1.19746.1.13.4.6)**

Object Type and ID	Description
elicenseFeatureLicenseTable 1.3.6.1.4.1.19746.1.13.4.6	A table containing information about the elicense feature licenses.
elicenseFeatureLicenseEntry 1.3.6.1.4.1.19746.1.13.4.6.1	Description of elicenseFeatureLicenseTable row.
elicenseFeatureLicenseIndex 1.3.6.1.4.1.19746.1.13.4.6.1.1	elicense feature license index.
elicenseFeatureLicenseName 1.3.6.1.4.1.19746.1.13.4.6.1.2	elicense feature license name.
elicenseFeatureLicenseMode 1.3.6.1.4.1.19746.1.13.4.7.1.4	elicense feature license mode. It may be grace, evaluation, permanent, etc.
elicenseCapacityLicenseExpirationDate 1.3.6.1.4.1.19746.1.13.4.7.1.5	elicense feature license expiration date. The date is given in YYYY-MM-DD HH:MM:SS format. If the license has expired, this object may display <i>Expired</i> .

**elicenseCapacityLicenseTable (1.3.6.1.4.1.19746.1.13.4.7)**

Object Type and ID	Description
elicenseCapacityLicenseTable 1.3.6.1.4.1.19746.1.13.4.7	A table containing information about the elicense capacity licenses.

Object Type and ID	Description
elicenseCapacityLicenseEntry 1.3.6.1.4.1.19746.1.13.4.7.1	Elicense capacity license table row description.
elicenseCapacityLicenseIndex 1.3.6.1.4.1.19746.1.13.4.7.1.1	Elicense capacity license index.
elicenseCapacityLicenseName 1.3.6.1.4.1.19746.1.13.4.7.1.2	Elicense capacity license name.
elicenseCapacityLicenseCapacity 1.3.6.1.4.1.19746.1.13.4.7.1.3	Elicense capacity license's capacity given in tebebits (TiB).
elicenseCapacityLicenseMode 1.3.6.1.4.1.19746.1.13.4.7.1.4	Elicense capacity license mode. It may be grace, evaluation, permanent, etc.
elicenseCapacityLicenseExpirationDate 1.3.6.1.4.1.19746.1.13.4.7.1.5	Elicense capacity license expiration date. The date is given in YYYY-MM-DD HH:MM:SS format. If the license has expired, this object may display <i>Expired</i> .

#### elicenseScheme (1.3.6.1.4.1.19746.1.13.4.8)

Object Type and ID	Description
elicenseScheme 1.3.6.1.4.1.19746.1.13.4.8	The elicense scheme.
elicenseLicenseServer 1.3.6.1.4.1.19746.1.13.4.9	The elicense license server used by the DD System.

### systemUser (1.3.6.1.4.1.19746.1.13.5)

Object Type and ID	Description
systemUserTable 1.3.6.1.4.1.19746.1.13.5.1	A table containing entries of systemUserEntry.
systemUserEntry 1.3.6.1.4.1.19746.1.13.5.1.1	Description of systemUserTable row.
systemUserIndex 1.3.6.1.4.1.19746.1.13.5.1.1.1	System user row index.
systemUserName 1.3.6.1.4.1.19746.1.13.5.1.1.2	System user name.
systemUserUID 1.3.6.1.4.1.19746.1.13.5.1.1.3	System user unique identifier.
systemUserRole 1.3.6.1.4.1.19746.1.13.5.1.1.4	System user role.
systemUserStatus 1.3.6.1.4.1.19746.1.13.5.1.1.5	System user status.
systemActiveUserTable 1.3.6.1.4.1.19746.1.13.5.2	A table containing entries of System Active Users.

Object Type and ID	Description
systemActiveUserEntry 1.3.6.1.4.1.19746.1.13.5.2.1	Description of SystemActiveUserTable row.
systemActiveUserIndex 1.3.6.1.4.1.19746.1.13.5.2.1.1	System Active User row index.
systemActiveUserName 1.3.6.1.4.1.19746.1.13.5.2.1.2	System Active User name.
systemActiveUserIdleTime 1.3.6.1.4.1.19746.1.13.5.2.1.3	System Active User idle time.
systemActiveUserLoginTime 1.3.6.1.4.1.19746.1.13.5.2.1.4	System Active User login time.
systemActiveUserLoginFrom 1.3.6.1.4.1.19746.1.13.5.2.1.5	System Active User login from.
systemActiveUserTty 1.3.6.1.4.1.19746.1.13.5.2.1.6	System Active User Tty.

## art (1.3.6.1.4.1.19746.1.14)

Information in this section provides the type of archive train objects, identification (OIDs), and descriptions.

### artConfig (1.3.6.1.4.1.19746.1.14.1)

Object Type and ID	Description
artConfigTable 1.3.6.1.4.1.19746.1.14.1.1	A table containing entries of artConfigEntry.
artConfigEntry 1.3.6.1.4.1.19746.1.14.1.1.1	Description of artConfigTable row.
artConfigIndex 1.3.6.1.4.1.19746.1.14.1.1.1.1	Archive train configuration index.
artConfigStatus 1.3.6.1.4.1.19746.1.14.1.1.1.2	Status of archive train configuration.
artConfigMigrationSchedule 1.3.6.1.4.1.19746.1.14.1.1.1.3	Archive train configuration migration schedule.
artConfigDefaultAge 1.3.6.1.4.1.19746.1.14.1.1.1.4	Policy for archive train configuration default age threshold.
artConfigFileSystemClean 1.3.6.1.4.1.19746.1.14.1.1.1.5	File system clean required for archive train configuration.
artConfigCompression 1.3.6.1.4.1.19746.1.14.1.1.1.6	Archive train configuration local compression.



## artMigrationSchedule (1.3.6.1.4.1.19746.1.14.2)

Object Type and ID	Description
artMigrationScheduleTable 1.3.6.1.4.1.19746.1.14.2.1	A table containing entries of artMigrationScheduleEntry.
artMigrationScheduleEntry 1.3.6.1.4.1.19746.1.14.2.1.1	Description of artMigrationScheduleTable row.
artMigrationScheduleIndex 1.3.6.1.4.1.19746.1.14.2.1.1.1	Archive train migration schedule index.
artMigrationScheduleSchedule 1.3.6.1.4.1.19746.1.14.2.1.1.2	Description of archive train migration schedule.
artMigrationScheduleStatus 1.3.6.1.4.1.19746.1.14.2.1.1.3	Archive train migration schedule status.

## artMigrationPolicy (1.3.6.1.4.1.19746.1.14.3)

Object Type and ID	Description
artMigrationPolicyTable 1.3.6.1.4.1.19746.1.14.3.1	A table containing entries of artMigrationPolicyEntry.
artMigrationPolicyEntry 1.3.6.1.4.1.19746.1.14.3.1.1	Description of artMigrationPolicyTable row.
artMigrationPolicyIndex 1.3.6.1.4.1.19746.1.14.3.1.1.1	Archive train policy index.
artMigrationPolicyMtreeName 1.3.6.1.4.1.19746.1.14.3.1.1.2	Archive train policy MTree name.
artMigrationPolicyDefaultAge 1.3.6.1.4.1.19746.1.14.3.1.1.3	Archive train policy default age.

## mtree (1.3.6.1.4.1.19746.1.15)

Information in this section provides the type of managed tree (MTree) objects, identification (OIDs), and descriptions.

### mtreeCompression (1.3.6.1.4.1.19746.1.15.1)

Object Type and ID	Description
mtreeCompressionTable 1.3.6.1.4.1.19746.1.15.1.1	A table containing entries of mtreeCompressionEntry.
mtreeCompressionEntry 1.3.6.1.4.1.19746.1.15.1.1.1	Description of mtreeCompressionTable row.
mtreeCompressionIndex 1.3.6.1.4.1.19746.1.15.1.1.1.1	MTree compression index.
mtreeCompressionMtreePath 1.3.6.1.4.1.19746.1.15.1.1.1.2	MTree compression MTree path.

Object Type and ID	Description
mtreeCompressionPreCompGib 1.3.6.1.4.1.19746.1.15.1.1.1.3	MTree pre-compression in gigabytes.
mtreeCompressionPostCompGib 1.3.6.1.4.1.19746.1.15.1.1.1.4	MTree post-compression in gigabytes.
mtreeCompressionGlobalCompFactor 1.3.6.1.4.1.19746.1.15.1.1.1.5	MTree global compression factor.
mtreeCompressionLocalCompFactor 1.3.6.1.4.1.19746.1.15.1.1.1.6	MTree local compression factor.
mtreeCompressionPostTotalCompFactor 1.3.6.1.4.1.19746.1.15.1.1.1.7	MTree total compression factor.
mtreeCompressionTimePeriod 1.3.6.1.4.1.19746.1.15.1.1.1.8	MTree compression time period.

## mtreeList (1.3.6.1.4.1.19746.1.15.2)

Object Type and ID	Description
mtreeListTable 1.3.6.1.4.1.19746.1.15.2.1	A table containing entries of mtreeListEntry.
mtreeListEntry 1.3.6.1.4.1.19746.1.15.2.1.1	Description of mtreeListTable row.
mtreeListIndex 1.3.6.1.4.1.19746.1.15.2.1.1.1	MTree list index.
mtreeListMtreeName 1.3.6.1.4.1.19746.1.15.2.1.1.2	MTree list – MTree name.
mtreeListPreCompGib 1.3.6.1.4.1.19746.1.15.2.1.1.3	MTree list pre-compression in gigabytes.
mtreeListStatus 1.3.6.1.4.1.19746.1.15.2.1.1.4	MTree list status.

## mtreeRetentionLock (1.3.6.1.4.1.19746.1.15.4)

Object Type and ID	Description
mtreeRetentionLockTable 1.3.6.1.4.1.19746.1.15.4.1	A table containing entries of mtreeRetentionLockEntry.
mtreeRetentionLockEntry 1.3.6.1.4.1.19746.1.15.4.1.1	Description of mtreeRetentionLockTable row.
mtreeRetentionLockIndex 1.3.6.1.4.1.19746.1.15.4.1.1.1	MTree retention lock – index.
mtreeRetentionLockMtreeName 1.3.6.1.4.1.19746.1.15.4.1.1.2	MTree retention lock – Mtree name.
mtreeRetentionLockStatus 1.3.6.1.4.1.19746.1.15.4.1.1.3	MTree retention lock – status.

Object Type and ID	Description
mtreeRetentionLockUUID 1.3.6.1.4.1.19746.1.15.4.1.1.4	MTree retention lock – UUID (universal unique identifier).
mtreeRetentionLockMinRetentionPeriod 1.3.6.1.4.1.19746.1.15.4.1.1.5	MTree retention lock – minimum retention period.
mtreeRetentionLockMaxRetentionPeriod 1.3.6.1.4.1.19746.1.15.4.1.1.6	MTree retention lock – maximum retention period.

## enclosure (1.3.6.1.4.1.19746.1.17)

Information in this section provides the type of enclosure objects, identification (OIDs), and descriptions.

### enclosureList (1.3.6.1.4.1.19746.1.17.1)

Object Type and ID	Description
enclosureListTable 1.3.6.1.4.1.19746.1.17.1.1	A table containing entries of enclosureListEntry.
enclosureListEntry 1.3.6.1.4.1.19746.1.17.1.1.1	Description of enclosureListTable row.
enclosureListIndex 1.3.6.1.4.1.19746.1.17.1.1.1.1	Enclosure list row index.
enclosureListNum 1.3.6.1.4.1.19746.1.17.1.1.1.2	Enclosure number.
enclosureListModel 1.3.6.1.4.1.19746.1.17.1.1.1.3	Enclosure model.
enclosureListSerialNum 1.3.6.1.4.1.19746.1.17.1.1.1.4	Enclosure serial number.
enclosureListOemName 1.3.6.1.4.1.19746.1.17.1.1.1.5	Enclosure OEM (original equipment manufacturer) name.
enclosureListOemValue 1.3.6.1.4.1.19746.1.17.1.1.1.6	Enclosure OEM value.
enclosureListCapacity 1.3.6.1.4.1.19746.1.17.1.1.1.7	Enclosure capacity.

### enclosurePack (1.3.6.1.4.1.19746.1.17.2)

Object Type and ID	Description
enclosurePackTable 1.3.6.1.4.1.19746.1.17.2.1	A table containing entries of EnclosurePackEntry.
enclosurePackEntry 1.3.6.1.4.1.19746.1.17.2.1.1	Description of enclosure pack row.

Object Type and ID	Description
enclosurePackID 1.3.6.1.4.1.19746.1.17.2.1.1.1	Pack information for the enclosure. Applicable to enclosures with packs, such as DS60, but not for ES20 or ES30.

## network (1.3.6.1.4.1.19746.1.18)

Information in this section provides the type of network objects, identification (OIDs), and descriptions.

### dns (1.3.6.1.4.1.19746.1.18.1)

Object Type and ID	Description
dnsTable 1.3.6.1.4.1.19746.1.18.1.1	A table containing entries of dnsEntry.
dnsEntry 1.3.6.1.4.1.19746.1.18.1.1.1	Description of dnsTable row.
dnsIndex 1.3.6.1.4.1.19746.1.18.1.1.1.1	DNS (Domain Name System) table row index.
dnsServer 1.3.6.1.4.1.19746.1.18.1.1.1.2	DNS server.

### searchDomains (1.3.6.1.4.1.19746.1.18.2)

Object Type and ID	Description
searchDomainsTable 1.3.6.1.4.1.19746.1.18.2.1	A table containing entries of searchDomainsEntry.
searchDomainsEntry 1.3.6.1.4.1.19746.1.18.2.1.1	Description of searchDomainsTable row.
searchDomainsIndex 1.3.6.1.4.1.19746.1.18.2.1.1.1	searchDomains table row index.
searchDomainsName 1.3.6.1.4.1.19746.1.18.2.1.1.2	searchDomains server.

### snmpTrapHosts (1.3.6.1.4.1.19746.1.18.3)

Object Type and ID	Description
snmpTrapHostsTable 1.3.6.1.4.1.19746.1.18.3.1	A table containing entries of snmpTrapHostsEntry.
snmpTrapHostsEntry 1.3.6.1.4.1.19746.1.18.3.1.1	Description of snmpTrapHostsTable row.
snmpTrapHostsIndex 1.3.6.1.4.1.19746.1.18.3.1.1.1	SNMP trap hosts table row index.

Object Type and ID	Description
snmpTrapHostsName 1.3.6.1.4.1.19746.1.18.3.1.1.2	SNMP trap hosts name.
snmpTrapHostsVersion 1.3.6.1.4.1.19746.1.18.3.1.1.3	SNMP trap hosts version.

## nis (1.3.6.1.4.1.19746.1.18.4)

Object Type and ID	Description
nisDomain 1.3.6.1.4.1.19746.1.18.4.1	NIS (Network Information Service) domain.
nisServers 1.3.6.1.4.1.19746.1.18.4.2	NIS servers.
nisAdminGroups 1.3.6.1.4.1.19746.1.18.4.3	NIS administrative groups.
nisUserGroups 1.3.6.1.4.1.19746.1.18.4.4	NIS user groups.
nisBackupOperatorGroups 1.3.6.1.4.1.19746.1.18.4.5	NIS backup operator groups.
nisEnabled 1.3.6.1.4.1.19746.1.18.4.6	NIS enabled or not.
nisStatus 1.3.6.1.4.1.19746.1.18.4.7	NIS status.

## snmpCommunity (1.3.6.1.4.1.19746.1.18.5)

Object Type and ID	Description
snmpRoCommunityTable 1.3.6.1.4.1.19746.1.18.5.1	A table containing snmp read-only community information.
snmpRoCommunityEntry 1.3.6.1.4.1.19746.1.18.5.1.1	Description of snmpRoCommunityTable table row.
snmpRoCommunityIndex 1.3.6.1.4.1.19746.1.18.5.1.1.1	SNMP read only community index.
snmpRoCommunityName 1.3.6.1.4.1.19746.1.18.5.1.1.2	SNMP read-only community name.
snmpRoCommunityHost 1.3.6.1.4.1.19746.1.18.5.1.1.3	Host or hosts associated with an SNMP read-only community.
snmpRwCommunityTable 1.3.6.1.4.1.19746.1.18.5.2	A table containing SNMP read-write community information.
snmpRwCommunityEntry 1.3.6.1.4.1.19746.1.18.5.2.1	Description of snmpRwCommunityTable table row.
snmpRwCommunityIndex	SNMP read-write community index.

Object Type and ID	Description
1.3.6.1.4.1.19746.1.18.5.2.1.1	
snmpRwCommunityName 1.3.6.1.4.1.19746.1.18.5.2.1.2	SNMP read-write community name.
snmpRwCommunityHost 1.3.6.1.4.1.19746.1.18.5.2.1.3	Host or hosts associated with an SNMP read-write community.

## mailserver (1.3.6.1.4.1.19746.1.18.6)

Object Type and ID	Description
mailserver 1.3.6.1.4.1.19746.1.18.6	The network mailserver.
mailserverName 1.3.6.1.4.1.19746.1.18.6.1	The mailserver name.

## ddms (1.3.6.1.4.1.19746.1.19)

Information in this section provides the type of Data Domain managed system (ddms) objects, identification (OIDs), and descriptions.

## managedSystem (1.3.6.1.4.1.19746.1.19.1)

Object Type and ID	Description
managedSystemTable 1.3.6.1.4.1.19746.1.19.1.1	A table containing entries of managedSystemEntry.
managedSystemEntry 1.3.6.1.4.1.19746.1.19.1.1.1	Description of managedSystemTable row.
managedSystemIndex 1.3.6.1.4.1.19746.1.19.1.1.1.1	Managed system row index.
managedSystemHostname 1.3.6.1.4.1.19746.1.19.1.1.1.2	Managed system hostname.
managedSystemSerial 1.3.6.1.4.1.19746.1.19.1.1.1.3	Managed system serial number.
managedSystemState 1.3.6.1.4.1.19746.1.19.1.1.1.4	Managed system state.
managedSystemStatus 1.3.6.1.4.1.19746.1.19.1.1.1.5	Managed system status.
managedSystemDDOSVersion 1.3.6.1.4.1.19746.1.19.1.1.1.6	Managed system DD OS version.
managedSystemHDSyncTime 1.3.6.1.4.1.19746.1.19.1.1.1.7	Managed system configuration data last sync time.
managedSystemCDSyncTime 1.3.6.1.4.1.19746.1.19.1.1.1.8	Managed system current data last sync time.

**taskHistory (1.3.6.1.4.1.19746.1.19.2)**

<b>Object Type and ID</b>	<b>Description</b>
taskHistoryTable 1.3.6.1.4.1.19746.1.19.2.1	A table containing entries of taskHistoryEntry.
taskHistoryEntry 1.3.6.1.4.1.19746.1.19.2.1.1	Description of taskHistoryTable row.
taskHistoryIndex 1.3.6.1.4.1.19746.1.19.2.1.1.1	Task history row index.
taskHistoryUser 1.3.6.1.4.1.19746.1.19.2.1.1.2	Task history user.
taskHistoryID 1.3.6.1.4.1.19746.1.19.2.1.1.3	Task history identifier.
taskHistoryParent 1.3.6.1.4.1.19746.1.19.2.1.1.4	Task history parent.
taskHistoryName 1.3.6.1.4.1.19746.1.19.2.1.1.5	Task history name.
taskHistoryState 1.3.6.1.4.1.19746.1.19.2.1.1.6	Task history state.
taskHistoryStartTime 1.3.6.1.4.1.19746.1.19.2.1.1.7	Task history start time.
taskHistoryDuration 1.3.6.1.4.1.19746.1.19.2.1.1.8	Task history duration.

**taskActive (1.3.6.1.4.1.19746.1.19.3)**

<b>Object Type and ID</b>	<b>Description</b>
taskActiveTable 1.3.6.1.4.1.19746.1.19.3.1	A table containing entries of taskActiveEntry.
taskActiveEntry 1.3.6.1.4.1.19746.1.19.3.1.1	Description of taskActiveTable row.
taskActiveIndex 1.3.6.1.4.1.19746.1.19.3.1.1.1	Task active row index.
taskActiveUser 1.3.6.1.4.1.19746.1.19.3.1.1.2	Task active user.
taskActiveID 1.3.6.1.4.1.19746.1.19.3.1.1.3	Task active identifier.
taskActiveParent 1.3.6.1.4.1.19746.1.19.3.1.1.4	Task active parent.
taskActiveName 1.3.6.1.4.1.19746.1.19.3.1.1.5	Task active name.
taskActiveState 1.3.6.1.4.1.19746.1.19.3.1.1.6	Task active state.
taskActiveStartTime 1.3.6.1.4.1.19746.1.19.3.1.1.7	Task active start time.

Object Type and ID	Description
taskActiveDuration 1.3.6.1.4.1.19746.1.19.3.1.1.8	Task active duration.

## ddmsSmt (1.3.6.1.4.1.19746.1.19.4)

Object type and ID	Description
ddmsSmtGeneralInfo 1.3.6.1.4.1.19746.1.19.4.1	General information about the DD system managed by this DD Management Center.
numberOfTenants 1.3.6.1.4.1.19746.1.19.4.1.1	The total number of tenants across all DD Systems that are managed by this DD Management Center.
numberOfTenantsUnits 1.3.6.1.4.1.19746.1.19.4.1.2	The total number of tenant units across all DD systems that are managed by this DD Management Center.
numberOfHostSystem 1.3.6.1.4.1.19746.1.19.4.1.3	The total number of host systems that have tenant units associated with the tenant on this DDMC system.
ddmsSmtTenantInfoTable 1.3.6.1.4.1.19746.1.19.4.2	Information about the tenant on the DDMC system.
ddmsSmtTenantInfoEntry 1.3.6.1.4.1.19746.1.19.4.2.1	Information about a tenant unit within a DD System.
ddmsSmtTenantInfoIdx 1.3.6.1.4.1.19746.1.19.4.2.1.1	The index of a tenant information table. This index uniquely identifies the tenant at a given time.
ddmsSmtTenantInfoTenantName 1.3.6.1.4.1.19746.1.19.4.2.1.2	The name of the tenant.
ddmsSmtTenantInfoAdminName 1.3.6.1.4.1.19746.1.19.4.2.1.3	The name of the administrator of this tenant.
ddmsSmtTenantInfoAdminEmail 1.3.6.1.4.1.19746.1.19.4.2.1.4	The email of the administrator of this tenant.
ddmsSmtTenantInfoNumOfTenantUnits 1.3.6.1.4.1.19746.1.19.4.2.1.5	The total number of tenant units associated with this tenant.
ddmsSmtTenantUnitInfoTable 1.3.6.1.4.1.19746.1.19.4.3	This table contains information about the tenant unit.
ddmsSmtTenantUnitInfoEntry 1.3.6.1.4.1.19746.1.19.4.3.1	Information about a tenant-unit within a DD System.
ddmsSmtTenantUnitInfoTenantUnitIdx 1.3.6.1.4.1.19746.1.19.4.3.1.1	The tenant unit index.
ddmsSmtTenantUnitInfoTenantUnitName 1.3.6.1.4.1.19746.1.19.4.3.1.2	The tenant unit name.
ddmsSmtTenantUnitInfoTenantName	The name of the tenant that this tenant unit is associated with.



Object type and ID	Description
1.3.6.1.4.1.19746.1.19.4.3.1.3	
ddmsSmtTenantUnitInfoHostSystem 1.3.6.1.4.1.19746.1.19.4.3.1.4	The hostname of the machine where this tenant unit resides.
ddmsSmtTenantUnitInfoStatus 1.3.6.1.4.1.19746.1.19.4.3.1.5	The self-service status of this tenant unit.
ddmsSmtTenantUnitInfoAdminName 1.3.6.1.4.1.19746.1.19.4.3.1.6	The name of the administrator of this tenant unit.
ddmsSmtTenantUnitInfoAdminEmail 1.3.6.1.4.1.19746.1.19.4.3.1.7	The email address of the administrator of this tenant unit.
ddmsSmtTenantUnitInfoNumOfMTrees 1.3.6.1.4.1.19746.1.19.4.3.1.8	The number of MTress in this tenant unit.
ddmsSmtTenantUnitInfoNumOfStorageUnits 1.3.6.1.4.1.19746.1.19.4.3.1.9	The number of storage units in this tenant unit.

## smt (1.3.6.1.4.1.19746.1.20)

Information in this section provides the type of Data Domain secure multi-tenancy (SMT) objects, identification (OIDs), and descriptions.

### smtProperties (1.3.6.1.4.1.19746.1.20.1)

Object Type and ID	Description
smtStatus 1.3.6.1.4.1.19746.1.20.1.1	The status of the secure multi-tenancy (SMT) feature on a DD System, which enables storage consolidation for multiple tenants on the same appliance. Through this feature, data and control paths on the DD System are logically secured, isolated, and confined, creating secure and isolated logical partitions for each tenant-unit within the same appliance.

### tenantUnitList (1.3.6.1.4.1.19746.1.20.2)

Object Type and ID	Description
tenantUnitListTable 1.3.6.1.4.1.19746.1.20.2.1	This table contains information about the Tenant Units within a DD system that has the Secure Multitenancy (SMT) feature enabled. It includes the Tenant Unit name, the number of Tenant-specific management users that have been added, the number of MTrees/DD Boost Storage Units assigned, and whether Tenant Self-Service mode is enabled.
tenantUnitListEntry 1.3.6.1.4.1.19746.1.20.2.1.1	Information about a Tenant Unit within a DD System.

Object Type and ID	Description
tenantUnitListIdx 1.3.6.1.4.1.19746.1.20.2.1.1.1	The index of a Tenant Unit (SMT management object). This index uniquely identifies the Tenant Unit at a given time.
tenantUnitListName 1.3.6.1.4.1.19746.1.20.2.1.1.2	The name of a Tenant Unit. A Tenant Unit name consists of letters and numbers, but no special characters, and can have a length of 254 characters.
tenantUnitListNumberOfMgmtUsers 1.3.6.1.4.1.19746.1.20.2.1.1.3	The number of Tenant-specific management users that have been added to a Tenant Unit.
tenantUnitListNumberOfMtrees 1.3.6.1.4.1.19746.1.20.2.1.1.4	The number of MTrees that have been assigned to a Tenant Unit.
tenantUnitListNumberOfDdboostStus 1.3.6.1.4.1.19746.1.20.2.1.1.5	The number of DD Boost Storage Snits that have been assigned to a Tenant Unit.
tenantUnitListTenantSelfServiceMode 1.3.6.1.4.1.19746.1.20.2.1.1.6	The status of Tenant Self-Service mode. If enabled, administrative access to each Tenant is allowed, so they can monitor and configure their data protection implementation, within the bounds of their allocated objects and features.
tenantUnitListParentTenantName 1.3.6.1.4.1.19746.1.20.2.1.1.7	The Tenant name with which a Tenant Unit is associated.
tenantUnitListType 1.3.6.1.4.1.19746.1.20.2.1.1.8	The MTree type of a Tenant Unit.
tenantUnitListSecurityMode 1.3.6.1.4.1.19746.1.20.2.1.1.9	The security mode of a Tenant Unit.
tenantUnitListNumberOfMgmtGroups 1.3.6.1.4.1.19746.1.20.2.1.1.10	The number of Tenant-specific management groups that have been added to a Tenant Unit.
tenantUnitListHostname 1.3.6.1.4.1.19746.1.20.2.1.1.11	The list of Tenant Unit host names.

### tenantUnitMgmtUserList (1.3.6.1.4.1.19746.1.20.3)

Object Type and ID	Description
tenantUnitMgmtUserListTable 1.3.6.1.4.1.19746.1.20.3.1	This table contains information about the tenant-specific management users that have been added to a tenant-unit. Such users may be limited by their role and scope to operate a limited set of operations only on the objects that are assigned to/associated with their tenant-units. Tenant-specific management users may have limited administrative and management capabilities.
tenantUnitMgmtUserListEntry 1.3.6.1.4.1.19746.1.20.3.1.1	Information about the management users that have been added to a tenant-unit.
tenantUnitMgmtUserListUserName 1.3.6.1.4.1.19746.1.20.3.1.1.2	The name of a management user that has been added to a tenant-unit. Users may be limited by

Object Type and ID	Description
	their roles and may have limited administrative and management capabilities.
tenantUnitMgmtUserListUserRole 1.3.6.1.4.1.19746.1.20.3.1.1.3	The role of a management user. Roles include tenant-admin and tenant-user.

## tenantUnitMtreeList (1.3.6.1.4.1.19746.1.20.4)

Object Type and ID	Description
tenantUnitMtreeListTable 1.3.6.1.4.1.19746.1.20.4.1	This table contains information about the mtrees that have been assigned to a tenant-unit. Mtree logical quotas for soft-limit and hard-limit may be imposed on a tenant-unit and will allow provisioning space for each tenant on a DD System. Data access may be contained within the mtrees belonging to a tenant-unit.
tenantUnitMtreeListEntry 1.3.6.1.4.1.19746.1.20.4.1.1	Information about an mtree associated with a tenant-unit within a DD System.
tenantUnitMtreeListMtreeName 1.3.6.1.4.1.19746.1.20.4.1.1.2	The name of an mtree that has been assigned to a particular tenant-unit. One tenant-unit (SMT management object) may have multiple mtrees associated with it.

## tenantUnitDdboostStuList (1.3.6.1.4.1.19746.1.20.5)

Object Type and ID	Description
tenantUnitDdboostStuListTable 1.3.6.1.4.1.19746.1.20.5.1	This table contains information about the DD Boost storage units that have been assigned to a tenant-unit. Logical quotas for soft-limit and hard-limit may be imposed on a tenant-unit and will allow provisioning space for each tenant on a DD System. Data access may be contained within the DD Boost storage units belonging to a tenant-unit.
tenantUnitDdboostStuListEntry 1.3.6.1.4.1.19746.1.20.5.1.1	Information about a DD Boost storage unit associated with a tenant-unit.
tenantUnitDdboostStuListStuName 1.3.6.1.4.1.19746.1.20.5.1.1.2	The name of a DD Boost storage unit associated with a tenant-unit. One tenant-unit (SMT management object) may have multiple DD Boost storage units associated with it.

## tenantUnitAdminIpInfo (1.3.6.1.4.1.19746.1.20.6)

Object Type and ID	Description
tenantUnitAdminIpInfoTable 1.3.6.1.4.1.19746.1.20.6.1	This table provides IP address-related information about a Tenant Unit administrator.
tenantUnitAdminIpInfoEntry 1.3.6.1.4.1.19746.1.20.6.1.1	An entry of this table represents one set of IP information for a Tenant Unit administrator.

Object Type and ID	Description
tenantUnitAdminIpInfoAddr 1.3.6.1.4.1.19746.1.20.6.1.1.2	The IP address (IPv4 or IPv6) of a Tenant Unit administrator.
tenantUnitAdminIpInfoType 1.3.6.1.4.1.19746.1.20.6.1.1.3	The IP address type of a Tenant Unit administrator, whose possible values are local or remote.

## tenantInfo (1.3.6.1.4.1.19746.1.20.7)

Information in this section provides data about Tenants and Tenant Units for the Secure Multitenancy (SMT) feature.

Object Type and ID	Description
tenantInfoTable 1.3.6.1.4.1.19746.1.20.7.1	This table provides information about the Tenant.
tenantInfoEntry 1.3.6.1.4.1.19746.1.20.7.1.1	An entry of this table represents one instance about a Tenant that is configured on the DD system.
tenantInfoIdx 1.3.6.1.4.1.19746.1.20.7.1.1.1	The index into this table identifying a particular Tenant object.
tenantInfoTenantName 1.3.6.1.4.1.19746.1.20.7.1.1.2	The name of this Tenant.

Object Type and ID	Description
tenantInfoTenantUnitTable 1.3.6.1.4.1.19746.1.20.7.2	This table provides information about the Tenant Unit(s) that are associated with this Tenant.
tenantInfoTenantUnitEntry 1.3.6.1.4.1.19746.1.20.7.2.1	An entry of this table represents information about one Tenant Unit that is associated with a particular Tenant.
tenantInfoTenantUnitName 1.3.6.1.4.1.19746.1.20.7.2.1.2	The name of the Tenant Unit that is associated with this Tenant.

## tenantUnitMgmtGroupList (1.3.6.1.4.1.19746.1.20.8)

Object Type and ID	Description
tenantUnitMgmtGroupListTable 1.3.6.1.4.1.19746.1.20.8.1	This table contains information about the Tenant-specific management groups that have been added to a Tenant Unit. Such groups may be limited by their role and scope to operate a specific set of operations only on the objects that are assigned-to/associated with their Tenant Units. Tenant-specific management groups may have limited administrative and management capabilities.
tenantUnitMgmtGroupListEntry 1.3.6.1.4.1.19746.1.20.8.1.1	An entry of this table represents information about the management groups that have been added to a Tenant Unit.
tenantUnitMgmtGroupListGroupName 1.3.6.1.4.1.19746.1.20.8.1.1.2	The name of a management group that has been added to a Tenant Unit. Groups may be limited by their roles and may have limited administrative and management capabilities.

Object Type and ID	Description
tenantUnitMgmtGroupListGroupRole 1.3.6.1.4.1.19746.1.20.8.1.1.3	The role of a management group, which include tenant-admin and tenant-group.
tenantUnitMgmtGroupListGroupType 1.3.6.1.4.1.19746.1.20.8.1.1.4	The type of a management group, which include all, local, ad, nis, and ldap.

## tenantUnitDataIpInfo (1.3.6.1.4.1.19746.1.20.9)

Object ID and Type	Description
tenantUnitDataIpInfoTable 1.3.6.1.4.1.19746.1.20.9.1	This table provides information related to the data IP addresses of a tenant-unit.
tenantUnitDataIpInfoEntry 1.3.6.1.4.1.19746.1.20.9.1.1	Description of tenantUnitDataIpInfoTable row.
tenantUnitDataIpInfoIndex 1.3.6.1.4.1.19746.1.20.9.1.1.2	Tenant-unit data IP information index.
tenantUnitDataIpInfoLocalAddr 1.3.6.1.4.1.19746.1.20.9.1.1.3	Local data IP address of the tenant-unit.
tenantUnitDataIpInfoRemoteAddr 1.3.6.1.4.1.19746.1.20.9.1.1.4	Remote data IP address of the tenant-unit.
tenantUnitDataIpInfoProtocol 1.3.6.1.4.1.19746.1.20.9.1.1.5	Data IP protocol.

## tenantUnitGatewayIpInfo (1.3.6.1.4.1.19746.1.20.10)

Object Type and ID	Description
tenantUnitGatewayIpInfoTable 1.3.6.1.4.1.19746.1.20.10.1	A table containing entries of tenantUnitGatewayIpInfoEntry.
tenantUnitGatewayIpInfoEntry 1.3.6.1.4.1.19746.1.20.10.1.1	Description of tenantUnitGatewayIpInfoTable row.
tenantUnitGatewayIpInfoIndex 1.3.6.1.4.1.19746.1.20.10.1.1.2	Tenant-unit gateway IP information index.
tenantUnitGatewayIpInfoAddr 1.3.6.1.4.1.19746.1.20.10.1.1.3	Gateway IP address of the tenant-unit.

## quota (1.3.6.1.4.1.19746.1.21)

Information in this section provides the type of Data Domain quota objects, identification (OIDs), and descriptions.

## quotaProperties (1.3.6.1.4.1.19746.1.21.1)

Object Type and ID	Description
quotaCapacityStatus 1.3.6.1.4.1.19746.1.21.1.1	The status of the quota capacity property on a Data Domain System. If enabled, quota limits are enforced, and administrators can control the logical space consumed on a per-mtree basis.

## quotaCapacity (1.3.6.1.4.1.19746.1.21.2)

Object Type and ID	Description
quotaCapacityTable 1.3.6.1.4.1.19746.1.21.2.1	This table lists quota capacities for mtrees and storage units. It provides information, such as mtree name, pre-comp (MiB) size, soft-limit (MiB) quota, and hard-limit (MiB) quota. It is comprised of entries of quotaCapacityEntry.
quotaCapacityEntry 1.3.6.1.4.1.19746.1.21.2.1.1	An entry containing quota information for mtrees and storage units on the DD System.
quotaCapacityIndex 1.3.6.1.4.1.19746.1.21.2.1.1.1	The index of an mtree or storage unit. This index uniquely identifies the entry at a given time.
quotaCapacityMtreeName 1.3.6.1.4.1.19746.1.21.2.1.1.2	The name of the mtree or storage unit for which quota capacity information is provided.
quotaCapacityPreCompMiB 1.3.6.1.4.1.19746.1.21.2.1.1.3	The pre-comp (MiB) size of the mtree or storage unit. This is the amount of data written before compression.
quotaCapacitySoftLimitMiB 1.3.6.1.4.1.19746.1.21.2.1.1.4	The soft-limit (MiB) quota for the mtree or storage unit. Soft quotas provide only an alert when quota limits are reached, and the backup job is allowed to complete so that the administrator can take corrective actions that are convenient to the organization.
quotaCapacityHardLimitMiB 1.3.6.1.4.1.19746.1.21.2.1.1.5	The hard-limit (MiB) quota for the mtree or storage unit. Hard quotas provide a stricter enforcement model than soft quotas by failing the backup jobs or I/O when quota limits are reached.
quotaCapacityTenantUnit 1.3.6.1.4.1.19746.1.21.2.1.1.6	The tenant-unit to which this mtree or storage unit is assigned. Tenant-units allow for secure and isolated logical partitions within an appliance and are part of the secure multi-tenancy (SMT) feature.

## highAvailability (1.3.6.1.4.1.19746.1.22)

Information in this section provides the type of high availability (HA) object, identification, and description.

**highAvailabilityStatus (1.3.6.1.4.1.19746.1.22.1)**

Object Type and ID	Description
haSystemName 1.3.6.1.4.1.19746.1.22.1.1	High availability system name.
haSystemStatus 1.3.6.1.4.1.19746.1.22.1.2	High availability system status.
haInterconnectStatus 1.3.6.1.4.1.19746.1.22.1.3	High availability interconnect status.
haPrimaryHeartbeatStatus 1.3.6.1.4.1.19746.1.22.1.4	High availability primary heartbeat status.
haExternalLanHeartbeatStatus 1.3.6.1.4.1.19746.1.22.1.5	High availability external LAN heartbeat status.
haHardwareCompatibilityCheck 1.3.6.1.4.1.19746.1.22.1.6	High availability hardware compatibility check.
haSoftwareVersionCheck 1.3.6.1.4.1.19746.1.22.1.7	High availability software version check.

**highAvailabilityNode (1.3.6.1.4.1.19746.1.22.2)**

Object Type and ID	Description
highAvailabilityNodeTable 1.3.6.1.4.1.19746.1.22.2.1	A table containing entries of highAvailabilityNode.
highAvailabilityNodeEntry 1.3.6.1.4.1.19746.1.22.2.1.1	Description of highAvailabilityNodeTable row.
highAvailabilityNodeIdx 1.3.6.1.4.1.19746.1.22.2.1.1.1	highAvailabilityNodeTable index.
highAvailabilityNodeName 1.3.6.1.4.1.19746.1.22.2.1.1.2	High availability node name.
highAvailabilityNodeId 1.3.6.1.4.1.19746.1.22.2.1.1.3	High availability node ID.
highAvailabilityNodeRole 1.3.6.1.4.1.19746.1.22.2.1.1.4	High availability node role.
highAvailabilityNodeState 1.3.6.1.4.1.19746.1.22.2.1.1.5	High availability node state.
highAvailabilityNodeHealth 1.3.6.1.4.1.19746.1.22.2.1.1.6	High availability node health.

## highAvailabilityComponent (1.3.6.1.4.1.19746.1.22.3)

Object Type and ID	Description
highAvailabilityComponentTable 1.3.6.1.4.1.19746.1.22.3.1	A table containing high availability component information.
highAvailabilityComponentEntry 1.3.6.1.4.1.19746.1.22.3.1.1	Description of one instance of a high availability component.
highAvailabilityComponentIdx 1.3.6.1.4.1.19746.1.22.3.1.1.1	High availability component index.
highAvailabilityComponentName 1.3.6.1.4.1.19746.1.22.3.1.1.2	High availability component name.
highAvailabilityComponentState 1.3.6.1.4.1.19746.1.22.3.1.1.3	High availability component state.

## scsitarget (1.3.6.1.4.1.19746.1.23)

Information in this section provides the type of Data Domain scsitarget objects, identification (OIDs), and descriptions.

### scsitargetProperties (1.3.6.1.4.1.19746.1.23.1)

Object Type and ID	Description
scsitargetAdminState 1.3.6.1.4.1.19746.1.23.1.1	The SCSI Target administrative state.
scsitargetProcessState 1.3.6.1.4.1.19746.1.23.1.2	The SCSI Target process state.

### scsitargetGroup (1.3.6.1.4.1.19746.1.23.2)

Object Type and ID	Description
scsitargetGroupTable 1.3.6.1.4.1.19746.1.23.2.1	The SCSI Target group table.
scsitargetGroupEntry 1.3.6.1.4.1.19746.1.23.2.1.1	An entry of the SCSI Target group table.
scsitargetGroupIndex 1.3.6.1.4.1.19746.1.23.2.1.1.1	An index into the SCSI Target group table.
scsitargetGroupName 1.3.6.1.4.1.19746.1.23.2.1.1.2	The SCSI Target group name.
scsitargetGroupService 1.3.6.1.4.1.19746.1.23.2.1.1.3	The SCSI Target group service.
scsitargetGroupActiveState 1.3.6.1.4.1.19746.1.23.2.1.1.4	The SCSI Target group active state.
scsitargetGroupNumInitiators 1.3.6.1.4.1.19746.1.23.2.1.1.5	The SCSI Target group number of initiators.



Object Type and ID	Description
scsitargetGroupNumDevices 1.3.6.1.4.1.19746.1.23.2.1.1.6	The SCSI Target group number of devices.

## scsitargetInitiator(1.3.6.1.4.1.19746.1.23.3)

Information in this section provides data about SCSI Target initiators.

Object Type and ID	Description
scsitargetInitiatorTable 1.3.6.1.4.1.19746.1.23.3.1	The SCSI Target initiator table.
scsitargetInitiatorEntry 1.3.6.1.4.1.19746.1.23.3.1.1	An entry of the SCSI Target initiator table.
scsitargetInitiatorIndex 1.3.6.1.4.1.19746.1.23.3.1.1.1	An index into the SCSI Target initiator table.
scsitargetInitiatorName 1.3.6.1.4.1.19746.1.23.3.1.1.2	The SCSI Target initiator name.
scsitargetInitiatorSystemAddress 1.3.6.1.4.1.19746.1.23.3.1.1.3	The SCSI Target initiator system address.
scsitargetInitiatorGroup 1.3.6.1.4.1.19746.1.23.3.1.1.4	The SCSI Target initiator group.
scsitargetInitiatorService 1.3.6.1.4.1.19746.1.23.3.1.1.5	The SCSI Target initiator service.
scsitargetInitiatorAddressMethod 1.3.6.1.4.1.19746.1.23.3.1.1.6	The SCSI Target initiator address method.
scsitargetInitiatorTransport 1.3.6.1.4.1.19746.1.23.3.1.1.7	The SCSI Target initiator transport.
scsitargetInitiatorFcWwpn 1.3.6.1.4.1.19746.1.23.3.1.1.8	The SCSI Target initiator FC (Fibre Channel) WWPN (Worldwide Port Name).
scsitargetInitiatorFcWwnn 1.3.6.1.4.1.19746.1.23.3.1.1.9	The SCSI Target initiator FC (Fibre Channel) WWNN (Worldwide Node Name).
scsitargetInitiatorFcSymbolicPortName 1.3.6.1.4.1.19746.1.23.3.1.1.10	The SCSI Target initiator FC (Fibre Channel) Symbolic Port Name.

Object Type and ID	Description
scsitargetInitiatorEndpTable 1.3.6.1.4.1.19746.1.23.3.2	The SCSI Target initiator endpoint table.
scsitargetInitiatorEndpEntry 1.3.6.1.4.1.19746.1.23.3.2.1	An entry of the SCSI Target initiator endpoint table.
scsitargetInitiatorEndpIndex 1.3.6.1.4.1.19746.1.23.3.2.1.1	An index into the SCSI Target initiator endpoint table.
scsitargetInitiatorEndpInitiator 1.3.6.1.4.1.19746.1.23.3.2.1.2	The SCSI Target initiator endpoint initiator.
scsitargetInitiatorEndpEndpoint 1.3.6.1.4.1.19746.1.23.3.2.1.3	The SCSI Target initiator endpoint.

Object Type and ID	Description
scsitargetInitiatorEndpStatus 1.3.6.1.4.1.19746.1.23.3.2.1.4	The SCSI Target initiator endpoint status.

## scsitargetEndpoint(1.3.6.1.4.1.19746.1.23.4)

Object Type and ID	Description
scsitargetEndpointTable 1.3.6.1.4.1.19746.1.23.4.1	The SCSI Target endpoint table.
scsitargetEndpointEntry 1.3.6.1.4.1.19746.1.23.4.1.1	An entry of the SCSI Target endpoint table.
scsitargetEndpointIndex 1.3.6.1.4.1.19746.1.23.4.1.1.1	An index into the SCSI Target endpoint table.
scsitargetEndpointName 1.3.6.1.4.1.19746.1.23.4.1.1.2	The SCSI Target endpoint name.
scsitargetEndpointCurrentSystemAddress 1.3.6.1.4.1.19746.1.23.4.1.1.3	The SCSI Target endpoint current system address.
scsitargetEndpointPrimarySystemAddress 1.3.6.1.4.1.19746.1.23.4.1.1.4	The SCSI Target endpoint primary system address.
scsitargetEndpointSecondarySystemAddresses 1.3.6.1.4.1.19746.1.23.4.1.1.5	The SCSI Target endpoint secondary system address.
scsitargetEndpointEnabled 1.3.6.1.4.1.19746.1.23.4.1.1.6	Whether the SCSI Target endpoint is enabled.
scsitargetEndpointStatus 1.3.6.1.4.1.19746.1.23.4.1.1.7	The SCSI Target endpoint status.
scsitargetEndpointTransport 1.3.6.1.4.1.19746.1.23.4.1.1.8	The SCSI Target endpoint transport.
scsitargetEndpointFcWwnn 1.3.6.1.4.1.19746.1.23.4.1.1.9	The SCSI Target endpoint FC (Fibre Channel) WWNN (Worldwide Node Name).
scsitargetEndpointFcWwpn 1.3.6.1.4.1.19746.1.23.4.1.1.10	The SCSI Target endpoint FC (Fibre Channel) WWPN (Worldwide Port Name).

## scsitargetPort (1.3.6.1.4.1.19746.1.23.5)

Information in this section provides data about SCSI Target ports.

Object Type and ID	Description
scsitargetPortTable 1.3.6.1.4.1.19746.1.23.5.1	The SCSI Target port table.
scsitargetPortEntry 1.3.6.1.4.1.19746.1.23.5.1.1	An entry of the SCSI Target port table.
scsitargetPortIndex	An index into the SCSI Target port table.

<b>Object Type and ID</b>	<b>Description</b>
1.3.6.1.4.1.19746.1.23.5.1.1.1	
scsitargetPortSystemAddress 1.3.6.1.4.1.19746.1.23.5.1.1.2	The SCSI Target port system address.
scsitargetPortEnabled 1.3.6.1.4.1.19746.1.23.5.1.1.3	Whether the SCSI Target port is enabled.
scsitargetPortStatus 1.3.6.1.4.1.19746.1.23.5.1.1.4	The SCSI Target port status.
scsitargetPortTransport 1.3.6.1.4.1.19746.1.23.5.1.1.5	The SCSI Target port transport.
scsitargetPortOperationalStatus 1.3.6.1.4.1.19746.1.23.5.1.1.6	The SCSI Target port operational status.
scsitargetPortFcNpiv 1.3.6.1.4.1.19746.1.23.5.1.1.7	The SCSI Target port FC (Fibre Channel) NPIV (N-port ID Virtualization).
scsitargetPortPortId 1.3.6.1.4.1.19746.1.23.5.1.1.8	The SCSI Target port port identifier.
scsitargetPortModel 1.3.6.1.4.1.19746.1.23.5.1.1.9	The SCSI Target port model.
scsitargetPortFirmware 1.3.6.1.4.1.19746.1.23.5.1.1.10	The SCSI Target port firmware.
scsitargetPortFcBaseWwnn 1.3.6.1.4.1.19746.1.23.5.1.1.11	The SCSI Target port FC (Fibre Channel) base WWNN (Worldwide Node Name).
scsitargetPortFcBaseWwpn 1.3.6.1.4.1.19746.1.23.5.1.1.12	The SCSI Target port FC (Fibre Channel) base WWPN (Worldwide Port Name).
scsitargetPortFcCurrentWwnn 1.3.6.1.4.1.19746.1.23.5.1.1.13	The SCSI Target port FC (Fibre Channel) current WWNN (Worldwide Node Name).
scsitargetPortFcCurrentWwpn 1.3.6.1.4.1.19746.1.23.5.1.1.14	The SCSI Target port FC (Fibre Channel) current WWPN (Worldwide Port Name).
scsitargetPortFcp2Retry 1.3.6.1.4.1.19746.1.23.5.1.1.15	The SCSI Target port Fcp2 Retry.
scsitargetPortConnectionType 1.3.6.1.4.1.19746.1.23.5.1.1.16	The SCSI Target port connection type.
scsitargetPortLinkSpeed 1.3.6.1.4.1.19746.1.23.5.1.1.17	The SCSI Target port link speed.
scsitargetPortFcTopology 1.3.6.1.4.1.19746.1.23.5.1.1.18	The SCSI Target port FC (Fibre Channel) topology.
<b>Object Type and ID</b>	<b>Description</b>
scsitargetPortEndpTable 1.3.6.1.4.1.19746.1.23.5.2	The SCSI Target port endpoint table.
scsitargetPortEndpEntry 1.3.6.1.4.1.19746.1.23.5.2.1	An entry of the SCSI Target port endpoint table.

<b>Object Type and ID</b>	<b>Description</b>
scsitargetPortEndpIndex 1.3.6.1.4.1.19746.1.23.5.2.1.1	An index into the SCSI Target port endpoint table.
scsitargetPortEndpPort 1.3.6.1.4.1.19746.1.23.5.2.1.2	The SCSI Target port.
scsitargetPortEndpEndpoint 1.3.6.1.4.1.19746.1.23.5.2.1.3	The SCSI Target port endpoint.
scsitargetPortEndpEnabled 1.3.6.1.4.1.19746.1.23.5.2.1.4	Whether the SCSI Target port endpoint is enabled.
scsitargetPortEndpStatus 1.3.6.1.4.1.19746.1.23.5.2.1.5	The SCSI Target port endpoint status.
scsitargetPortEndpCurrentInstance 1.3.6.1.4.1.19746.1.23.5.2.1.6	The SCSI Target port endpoint current instances.

## scsitargetDevice (1.3.6.1.4.1.19746.1.23.6)

Information in this section provides data about SCSI Target devices.

<b>Object Type and ID</b>	<b>Description</b>
scsitargetDeviceTable 1.3.6.1.4.1.19746.1.23.6.1	The SCSI Target device table.
scsitargetDeviceEntry 1.3.6.1.4.1.19746.1.23.6.1.1	An entry of the SCSI Target device table.
scsitargetDeviceIndex 1.3.6.1.4.1.19746.1.23.6.1.1.1	An index into the SCSI Target device table.
scsitargetDeviceName 1.3.6.1.4.1.19746.1.23.6.1.1.2	The SCSI Target device name.
scsitargetDeviceService 1.3.6.1.4.1.19746.1.23.6.1.1.3	The SCSI Target device service.
scsitargetDeviceActiveState 1.3.6.1.4.1.19746.1.23.6.1.1.4	The SCSI Target device active state.
scsitargetDeviceAddress 1.3.6.1.4.1.19746.1.23.6.1.1.5	The SCSI Target device address.

<b>Object Type and ID</b>	<b>Description</b>
scsitargetDeviceGrpTable 1.3.6.1.4.1.19746.1.23.6.2	The SCSI Target device group table.
scsitargetDeviceGrpEntry 1.3.6.1.4.1.19746.1.23.6.2.1	An entry of the SCSI Target device group table.
scsitargetDeviceGrpIndex 1.3.6.1.4.1.19746.1.23.6.2.1.1	An index into the SCSI Target device group table.
scsitargetDeviceGrpDevice 1.3.6.1.4.1.19746.1.23.6.2.1.2	The SCSI Target device.
scsitargetDeviceGrpGroupName	The SCSI Target device group name.

Object Type and ID	Description
1.3.6.1.4.1.19746.1.23.6.2.1.3	
scsitargetDeviceGrpLun 1.3.6.1.4.1.19746.1.23.6.2.1.4	The SCSI Target device group LUN.
scsitargetDeviceGrpPrimaryEndpoints 1.3.6.1.4.1.19746.1.23.6.2.1.5	The SCSI Target device group primary endpoints.
scsitargetDeviceGrpSecondaryEndpoints 1.3.6.1.4.1.19746.1.23.6.2.1.6	The SCSI Target device group secondary endpoints.
scsitargetDeviceGrpInUseEndpoints 1.3.6.1.4.1.19746.1.23.6.2.1.7	The SCSI Target device group in use endpoints.

## ntp (1.3.6.1.4.1.19746.1.24)

Information in this section provides the type of Data Domain Network Time Protocol (NTP) objects, identification (OIDs), and descriptions.

### ntpProperties (1.3.6.1.4.1.19746.1.24.1)

Object Type and ID	Description
ntpStatus 1.3.6.1.4.1.19746.1.24.1.1	The NTP status.
ntpCurrentClockTime 1.3.6.1.4.1.19746.1.24.1.2	The current clock time. The time is given in YYYY-MM-DD HH:MM:SS.MMM format.
ntpClockLastSync 1.3.6.1.4.1.19746.1.24.1.3	The last time the clock was synchronized with a time server. The time is given in YYYY-MM-DD HH:MM:SS.MMM format.
ntpClockLastSyncTimeServer 1.3.6.1.4.1.19746.1.24.1.4	The time server the clock was last synchronized with.

### ntpConfig (1.3.6.1.4.1.19746.1.24.2)

Object Type and ID	Description
ntpConfigMode 1.3.6.1.4.1.19746.1.24.2.1	The NTP configuration mode. It may be configured through DHCP, manually, or multicast.
ntpTimeServerTable 1.3.6.1.4.1.19746.1.24.2.2	A table containing information about the Network Time Protocol (NTP) servers configured on a DD System. It includes the NTP server's name, and any interfaces it may be associated with.
ntpTimeServerEntry 1.3.6.1.4.1.19746.1.24.2.2.1	Information about an NTP server configured on a DD System.
ntpTimeServerIdx 1.3.6.1.4.1.19746.1.24.2.2.1.1	The NTP time server index.
ntpTimeServerName 1.3.6.1.4.1.19746.1.24.2.2.1.2	The name of an NTP time server. It may be the hostname or an IP address.

Object Type and ID	Description
ntpTimeServerInterfaces 1.3.6.1.4.1.19746.1.24.2.2.1.3	The list of interfaces that a time server is associated with. This object is applicable to DHCP-configured NTP servers. The list is space delimited.

## adminaccess (1.3.6.1.4.1.19746.1.25)

Information in this section provides the type of Data Domain adminaccess objects, identification (OIDs), and descriptions.

### adminaccessSshKey (1.3.6.1.4.1.19746.1.25.1)

Object Type and ID	Description
adminaccessSshKeyTable 1.3.6.1.4.1.19746.1.25.1.1	A table containing adminaccess ssh key information.
adminaccessSshKeyEntry 1.3.6.1.4.1.19746.1.25.1.1.1	Description of adminaccessSshKeyTable row.
adminaccessSshKeyIndex 1.3.6.1.4.1.19746.1.25.1.1.1.1	Adminaccess ssh key index.
adminaccessSshKeyUser 1.3.6.1.4.1.19746.1.25.1.1.1.2	Adminaccess ssh key user.
adminaccessSshKeyValue 1.3.6.1.4.1.19746.1.25.1.1.1.3	Adminaccess ssh key value.

## cloud (1.3.6.1.4.1.19746.1.26)

Information in this section provides the type of Data Domain cloud objects, identification (OIDs), and descriptions.

### cloudUnit (1.3.6.1.4.1.19746.1.26.1)

Object Type and ID	Description
cloudUnitTable 1.3.6.1.4.1.19746.1.26.1.1	A table containing entries of CloudUnitEntry.
cloudUnitEntry 1.3.6.1.4.1.19746.1.26.1.1.1	CloudUnitTable row description.
cloudUnitIndex 1.3.6.1.4.1.19746.1.26.1.1.1.1	Cloud unit index.
cloudUnitName 1.3.6.1.4.1.19746.1.26.1.1.1.2	Cloud unit name.
cloudUnitProfile 1.3.6.1.4.1.19746.1.26.1.1.1.3	Cloud unit profile.
cloudUnitStatus	Cloud unit status.

Object Type and ID	Description
1.3.6.1.4.1.19746.1.26.1.1.1.4	

### cloudProfile (1.3.6.1.4.1.19746.1.26.2)

Object Type and ID	Description
cloudProfileTable 1.3.6.1.4.1.19746.1.26.2.1	A table containing entries of CloudProfileEntry.
cloudProfileEntry 1.3.6.1.4.1.19746.1.26.2.1.1	Description of CloudProfileEntry row.
cloudProfileIndex 1.3.6.1.4.1.19746.1.26.2.1.1.1	Cloud profile index.
cloudProfileName 1.3.6.1.4.1.19746.1.26.2.1.1.2	Cloud profile name.
cloudProfileProvider 1.3.6.1.4.1.19746.1.26.2.1.1.3	Cloud profile provider.
cloudProfileRegion 1.3.6.1.4.1.19746.1.26.2.1.1.4	Cloud profile region.
cloudProfileAccountName 1.3.6.1.4.1.19746.1.26.2.1.1.5	Cloud profile account name.
cloudProfileEndpoint 1.3.6.1.4.1.19746.1.26.2.1.1.6	Cloud profile endpoint.
cloudProfileProxyHost 1.3.6.1.4.1.19746.1.26.2.1.1.7	Cloud profile proxy host.
cloudProfileProxyPort 1.3.6.1.4.1.19746.1.26.2.1.1.8	Cloud profile proxy port.
cloudProfileProxyUsername 1.3.6.1.4.1.19746.1.26.2.1.1.9	Cloud profile proxy username.

### cloudClean (1.3.6.1.4.1.19746.1.26.3)

Object Type and ID	Description
cloudCleanFrequency 1.3.6.1.4.1.19746.1.26.3.1	Cloud clean frequency.
cloudCleanThrottle 1.3.6.1.4.1.19746.1.26.3.2	Cloud clean throttle.

dataDomainMibObjects (1.3.6.1.4.1.19746.1)



# CHAPTER 3

## dataDomainMibNotifications (1.3.6.1.4.1.19746.2)

This chapter contains the current, auto-generated notifications (“traps”).

For information on administering SNMP using the command line, see the *EMC Data Domain Command Reference Guide*.

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### Note

Data Domain MIB notifications 1.3.6.1.4.1.19746.2.0.1 through 1.3.6.1.4.1.19746.2.0.36 are deprecated. Deprecated notifications are listed in the MIB, but are not included in this reference.

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- [generatedNotificationsGroup \(1.3.6.1.4.1.19746.2.0.6103-11012\)](#)..... 74

## generatedNotificationsGroup (1.3.6.1.4.1.19746.2.0.6103-11012)

Information on auto-generated notifications includes notification type, ID, description, and corrective action.

Notification Type and ID	Description
cleaningScheduleFailed 1.3.6.1.4.1.19746.2.0.6103	Cleaning has not started as scheduled. Space for deleted files will not be reclaimed until cleaning completes. This may impact the ability to backup. <b>Action:</b> Determine the reason why cleaning did not start. Manually start cleaning if free space needs to be reclaimed before the next scheduled cleaning. If problem persists, contact your contracted support provider or visit us online at <a href="https://support.emc.com">https://support.emc.com</a> .
evalLicenseExpiring 1.3.6.1.4.1.19746.2.0.10516	The temporary license for the feature indicated is about to expire. If this license expires, some or all of the features enabled by this license may not function. <b>Action:</b> Please contact your sales representative or channel partner for more information.
evalLicenseExpired 1.3.6.1.4.1.19746.2.0.10517	%1 license has expired. EVT-OBJ::Feature=%2 EVT-INFO::LicenseType=%3 <b>Action:</b> Please contact your sales representative or channel partner for more information.
graceLicenseExpiring 1.3.6.1.4.1.19746.2.0.10518	The grace period of the license for the feature indicated is about to expire. If this license expires, some or all of the features enabled by this license may not function. <b>Action:</b> Please contact your sales representative or channel partner for more information.
graceLicenseExpired 1.3.6.1.4.1.19746.2.0.10519	The license for the feature indicated has expired. Some or all of the features enabled by this license may not function. <b>Action:</b> Please contact your sales representative or channel partner for more information.
missingLicense 1.3.6.1.4.1.19746.2.0.10520	There are no capacity licenses on the system. The filesystem is in read-only mode. <b>Action:</b> Please contact your sales representative or channel partner for more information.
insufficientCapacityLicense 1.3.6.1.4.1.19746.2.0.10521	The filesystem size has exceeded the licensed capacity. <b>Action:</b> Please contact your sales representative or channel partner for more information.
vmDowngradeNotSupported 1.3.6.1.4.1.19746.2.0.10522	The file system can not be enabled if the virtual hardware configuration is reduced below the size available when the file system was created or expanded.

Notification Type and ID	Description
	<b>Action:</b> Power off this virtual machine and restore its previous configuration.
forcedFilesystemShutdown 1.3.6.1.4.1.19746.2.0.11001	An environmental condition or a hardware fault has been detected that may cause significant damage or possible data loss. The condition is serious and the file system is disabled. <b>Action:</b> Check the environment, if the system environment is at a normal state, review the alert history to determine the source of the problem. Once all other problems are resolved, the file system must be started manually. If the problem persists, contact your contracted support provider or visit us online at <a href="https://support.emc.com">https://support.emc.com</a> .
cacheStorageMissing 1.3.6.1.4.1.19746.2.0.11002	The purpose of the cache tier is to optimize file system performance. Having less than the licensed capacity will not maximize the performance gain. <b>Action:</b> Add cache storage to reach the licensed capacity. If a cache storage unit has failed, it must be replaced.
enclosureUnsupportedDrives 1.3.6.1.4.1.19746.2.0.11003	Use of unsupported drives in a tier can have unpredictable behaviors including poor performance and system instability. <b>Action:</b> The shelf with unsupported drives must be migrated to a shelf containing supported drives and removed.
unsupportedDrives 1.3.6.1.4.1.19746.2.0.11004	Use of unsupported drives in a tier can have unpredictable behaviors including poor performance and system instability. <b>Action:</b> Use of unsupported drives in a tier can have unpredictable behaviors including poor performance and system instability.
unableToFailDisk 1.3.6.1.4.1.19746.2.0.11005	A faulty disk has been identified and it cannot be failed at this time. Performance will be degraded. <b>Action:</b> Contact your contracted support provider or visit us online at <a href="https://support.emc.com">https://support.emc.com</a> .
eSRSGatewayUnreachable 1.3.6.1.4.1.19746.2.0.11007	There is a problem communicating with the configured ESRS gateway. The system will not be able to send out any notifications, including alerts, autosupports and daily summaries. <b>Action:</b> Ensure the configured ESRS gateway is accessible from the DD system. If the problem persists, contact your contracted support provider or visit us online at <a href="https://support.emc.com">https://support.emc.com</a> .
cacheTierFSRestartRequired 1.3.6.1.4.1.19746.2.0.11008	Enhanced performance provided by the cache tier will not be realized until filesystem is restarted. <b>Action:</b> Verify the cache tier is in use. If it is not, restart the filesystem.

Notification Type and ID	Description
cloudUnitInfoUnreadable 1.3.6.1.4.1.19746.2.0.11009	Information about a cloud unit is not readable from the cloud tier. The data in the cloud unit can not be written to or read from. <b>Action:</b> Contact your contracted support provider or visit us online at <a href="https://support.emc.com">https://support.emc.com</a> .
cloudUnableToAccess 1.3.6.1.4.1.19746.2.0.11010	The cloud unit is unavailable for writing or reading until access is restored to the cloud provider. <b>Action:</b> Ensure the cloud provider is accessible from the DD system. If the problem persists, Contact your contracted support provider or visit us online at <a href="https://support.emc.com">https://support.emc.com</a> .
hALicenseOnSN 1.3.6.1.4.1.19746.2.0.11011	High Availability license file should not be used on a single node system. <b>Action:</b> Go to Software Licensing Central and generate a new license file without High Availability for this system.
unsupportedEnclosureDrive 1.3.6.1.4.1.19746.2.0.11012	The enclosure installed with SSD drives is not supported type. <b>Action:</b> Refer to the configuration guide to replace the unsupported enclosure.
servedLicenseNotAvailable 1.3.6.1.4.1.19746.2.0.11101	The served license for the feature indicated cannot be obtained from the license server. Some or all of the features enabled by this license may not function after the grace period expires. <b>Action:</b> Verify the following: <ul style="list-style-type: none"> <li>• The license server is up and running</li> <li>• The network connectivity with the license server</li> <li>• There are enough licenses available for use on the license server.</li> </ul> If all the licenses are being used, please contact your sales representative or channel partner for more information.
missingISWID 1.3.6.1.4.1.19746.2.0.11103	To report served licenses on this DD system, instance software-id is required. <b>Action:</b> Unregister and register to the ESRS Gateway to obtain instance software-id.

**Table 5** Changed MIB notifications

spaceOver80Percent 1.3.6.1.4.1.19746.2.0.5080	Space usage has exceeded 80% of the total capacity. Lack of space can result in missing important logs or loss of file system functionality. <b>Action:</b>
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**Table 5** Changed MIB notifications (continued)

	<ul style="list-style-type: none"> <li>• If the problem is in root, contact your contracted support provider or visit us online at <a href="https://support.emc.com">https://support.emc.com</a> to free up some space.</li> <li>• If the problem is in /ddvar, remove unwanted files to free up some space.</li> <li>• If the problem is in active tier, remove unwanted files and start file system cleaning or add storage.</li> <li>• If the problem is in archive tier, remove unwanted files or add more archive units to the filesystem.</li> </ul>
spaceOver90Percent 1.3.6.1.4.1.19746.2.0.5081	<p>Space usage has exceeded 90% of the total capacity. Lack of space can result in loss of file system functionality or missing important logs.</p> <p><b>Action:</b></p> <p>Free space in the specified tier or unit by deleting unneeded items and running cleaning on the tier. If items cannot be deleted, storage must be added to the appropriate tier. If you need assistance recovering space, contact your contracted support provider or visit us online at <a href="https://support.emc.com">https://support.emc.com</a>. To purchase additional storage, please contact your sales representative or channel partner.</p>
diskFailure 1.3.6.1.4.1.19746.2.0.5083	<p>Unable to communicate with a disk. This disk cannot be used at this time.</p> <p><b>Action:</b> Contact your contracted support provider or visit us online at <a href="https://support.emc.com">https://support.emc.com</a>.</p>

dataDomainMibNotifications (1.3.6.1.4.1.19746.2)