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# Dell™ PowerVault™ ML6000 Basic SNMP Reference Guide

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## About This Guide and Your Product

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This guide is for library customers, partners, third party management software developers, and other parties interested in integrating the PowerVault™ ML6000 with commercial management frameworks. It assumes that you have a working knowledge of Simple Network Management Protocol (SNMP), that you can compile a Management Information Base (MIB) on your framework application, that you can perform SNMP GET operations, and that you know how to collect SNMP traps and filter them for information.

This guide describes information that you can obtain from the ML6000 library using SNMP. Using SNMP, you can monitor the library from a network management application rather than—or in addition to—the library's Reliability, Availability, and Serviceability (RAS) ticket system. For information about the ML6000 library itself, refer to the *PowerVault ML6000 Tape Library User's Guide*.

The ML6000 library supports SNMP by publishing a MIB that can be queried to obtain the status of the library and many of its individual components. You can obtain status information automatically by configuring the library to send alerts using SNMP traps, or you can obtain it on an ad-hoc basis by sending SNMP queries from your network management application.

Although the library's MIB contains additional objects that can be monitored via SNMP, this document provides details only about the objects that are most likely to be requested from the MIB. It also identifies the SNMP traps that can provide library status information to you automatically.

For more information about the library MIBs, contact technical support. For information on integrating MIBs with an SNMP management application, contact your network management application vendor.

## Explanation of Symbols and Notes

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The following symbols appear throughout this document to highlight important information.



**WARNING: A WARNING INDICATES A POTENTIAL FOR PROPERTY DAMAGE, PERSONAL INJURY, OR DEATH.**



**CAUTION: A CAUTION indicates potential damage to hardware or loss of data if instructions are not followed.**



NOTE: A NOTE indicates important information that helps you make better use of your system.

## Other Documents You Might Need

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The following document is also available for this product. This document can be found on the product documentation CD.

- *Dell PowerVault ML6000 Tape Library User's Guide*

## Getting More Information or Help

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More information about this product is available at <http://support.dell.com>.



# 2

## Description

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Simple Network Management Protocol (SNMP) is a light-weight protocol designed for remote management and monitoring of infrastructure devices. The ML6000 library provides SNMP support so you can use a framework application to monitor the status of the library. Using SNMP, you can be alerted of numerous library events.

The ML6000 library also provides detailed status reports from its own reporting system, called the Reliability, Availability, and Serviceability (RAS) ticket system. RAS tickets enable library administrators to diagnose specific library events.

### SNMP Functionality Available to Remote Applications

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The ML6000 library supports standard SNMP functionality, including GET queries and unicast traps (which can be sent only to registered recipients), that enables you to monitor library status from a remote application. SET commands are currently not enabled on the ML6000 library.

All ML6000 MIB variables are supported by Dell for remote management of the library.

Specific ML6000 library SNMP characteristics include:

- Supports SNMP v1, v2c, and v3
- Supports SNMP v1 and v2 traps as defined by RFC 1157. You can set the library to report SNMP traps using either v1 or v2 (v1 is the default). The timeout for all SNMP requests to the library must be at 10 seconds or greater (command line parameter-t).
- SMIv2 compliance only
- Usage of port 161 for GET queries
- Default community read/trap strings: *publicCmtyStr* (see [SNMP Community Strings](#) on page 5)
- Trap Registration interface in the library's remote web client, which enables you to configure application IP addresses, transport protocols, and user-configurable UDP port numbers to receive traps

### Accessing SNMP Information

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SNMP information can be obtained from the ML6000 library using traps and GET queries. Using the information contained in this guide, library administrators can configure their framework application to generate alerts to receive ML6000 library SNMP information.

By default, most SNMP information is returned as an integer value (library partition names, however, are returned as string values). For instance, the return value of *Library Main Door* might be 2, which indicates that the library door is closed.

You can, however, configure the framework application to return status information as a string value, which provides a description of the status. For example, the return value of *Library Main Door* might be *closed(2)*. To do this, you must compile and integrate the library's MIBs with your framework application.

## SNMPv3

Although the ML6000 library supports SNMP version 1 and version 2c for MIB information retrieval, we strongly recommend that you access the library using SNMP version 3 (SNMPv3). SNMPv3 is the most secure of the three versions, as it supports message digest 5, or MD5, as its authentication protocol.

To access the library for SNMP support, use the following values as needed in the remote management application:

**User name:** Admin

**Context name:** (None. Leave this field blank.)

**Authentication protocol:** MD5

**Privacy protocol:** (None. Leave this field blank.)

**Password:** Your Admin password

For secure access to the library using SNMP, disable SNMPv1 and SNMPv2c access from the remote Web client and the operator panel. For more information, see either the *Dell PowerVault ML6000 Tape Library User's Guide* or the relevant ML6000 online help topics.

## SNMP Traps

Traps enable alerts to be sent automatically to registered hosts when specific events occur. Only one application per UDP port can listen for traps.

The ML6000 library supports SNMP v1 and v2 traps as defined by RFC 1157.

You can set the library to report SNMP traps using either v1 or v2 (v1 is the default). The timeout for all SNMP requests to the library must be at 10 seconds or greater (command line parameter-t).

**To receive traps, you must perform two steps:**

- 1 Configure your framework application to collect traps from the ML6000 library.
- 2 Using the library's **SNMP Trap Registrations** feature, register the host's IP address, transport protocol, and UDP port number.

Registration informs the ML6000 library to send traps to the host.

For additional details about registering a host with the ML6000 library, refer to the *PowerVault ML6000 Tape Library User's Guide*.

## SNMP Queries

SNMP queries, or GET queries, can be initiated on a periodic basis by the framework application. By querying the MIB, hosts can gather status information about specific components of the library. Frequent MIB queries are not required, however, since the SNMP agent is event-driven.



**CAUTION:** As with any SNMP device, excessive MIB queries can result in performance degradation for the SNMP daemon, as well as for the network.

GETs must also include an instance ID. The instance identifies a specific device from which you can retrieve status information. For example, to determine if the second partition on an ML6000 library is online, access the MIB variable for logical library online status and select the instance for partition 2.

## SNMP Community Strings

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An SNMP community string is a text string that acts as a password to authenticate messages sent between the SNMP remote management application and the device (the SNMP agent). SNMP **Get** and **Get-next** requests are valid only if the community string in the request matches the community string at the device. If the community strings do not match, either modify the community string at the device so that it is the string that the management station expects, or modify the management station so that it uses the device's community strings.

The community string is included in every SNMPv1 and SNMPv2C packet transmitted between the SNMP manager and the SNMP agent. This string is case sensitive, cannot be empty, and cannot exceed 32 characters.

Use this procedure to configure the SNMP community string.

- 1 Login to the remote Web client.
- 2 Go to **Setup > Network Management > SNMP**.
- 3 Change the community string value.
- 4 Click **Apply**.

## SNMP Authentication Traps

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SNMP authentication traps occur in a number of conditions. By default, this option is disabled. In particular, they can occur when the SNMP agent:

- Receives a request that does not contain the correct community name.
- Receives a request not sent from a member of the acceptable host list.
- Receives a request from a bad user name or password when using SNMP Version 3.
- Sends an authentication trap message to one or more trap destinations (management systems), indicating authentication failure.

Use this procedure to configure SNMP authentication traps.

- 1 Login to the remote Web client.
- 2 Go to **Setup > Network Management > SNMP**.
- 3 Do one of the following:
  - Click the **Authentication traps** check box to enable authentication traps.
  - Remove the check from the **Authentication traps** check box to disable authentication traps.
- 4 Click **Apply**.



# 3

## MIB Variables - Drive Information

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You can poll the variables in this section to obtain information about drives on the library. The drive variables fall into the following categories:

- [Physical Drive Information](#)
- [Library Interfaces - Fibre Channel](#)
- [Library Interfaces - SAS](#)
- [Library Interfaces - SCSI](#)



NOTE: All variables share the same object ID (OID) prefix of:  
1.3.6.1.4.1.3764.1.10.10

## Physical Drive Information

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### Physical Drive Readiness

**Name:** overallPhDriveReadinessStatus

**Type:** OBJECT-TYPE

**OID:** 1.3.6.1.4.1.3764.1.10.10.11.1

**Full path:**

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).adic(3764).storage(1).library(10).tapeLibraryMIB(10).physicalDrive(11).overallPhDriveReadinessStatus(1)

**Module:** ADIC-TAPE-LIBRARY-MIB

**Parent:** physicalDrive

**Next sibling:** physicalDriveTable

**Numerical syntax:** Integer (32 bit)

**Base syntax:** INTEGER

**Composed syntax:** OnlineState

**Status:** current

**Max access:** read-only

**Description:** Overall drive readiness.

## Physical Drive Serial Number

**Name:** phDriveSerialNumber

**Type:** OBJECT-TYPE

**OID:** 1.3.6.1.4.1.3764.1.10.10.11.3.1.2

**Full path:**

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).adic(3764).storage(1).library(10).tapeLibraryMIB(10).physicalDrive(11).physicalDriveTable(3).physicalDriveEntry(1).phDriveSerialNumber(2)

**Module:** ADIC-TAPE-LIBRARY-MIB

**Parent:** physicalDriveEntry

**Prev sibling:** phDriveIndex

**Next sibling:** phDriveModel

**Numerical syntax:** Octets

**Base syntax:** OCTET STRING

**Composed syntax:** DisplayString

**Status:** current

**Max access:** read-only

**Description:** Device serial number as reported in a SCSI INQUIRY command.

## Physical Drive Model

**Name:** phDriveModel

**Type:** OBJECT-TYPE

**OID:** 1.3.6.1.4.1.3764.1.10.10.11.3.1.3

**Full path:**

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).adic(3764).storage(1).library(10).tapeLibraryMIB(10).physicalDrive(11).physicalDriveTable(3).physicalDriveEntry(1).phDriveModel(3)

**Module:** ADIC-TAPE-LIBRARY-MIB

**Parent:** physicalDriveEntry

**Prev sibling:** phDriveSerialNumber

**Next sibling:** phDriveVendor

**Numerical syntax:** Octets

**Base syntax:** OCTET STRING

**Composed syntax:** DisplayString

**Status:** current

**Max access:** read-only

**Description:** Device model as would be reported in a SCSI INQUIRY command.

## Physical Drive Vendor

**Name:** phDriveVendor

**Type:** OBJECT-TYPE

**OID:** 1.3.6.1.4.1.3764.1.10.10.11.3.1.4

**Full path:**

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).adic(3764).storage(1).library(10).tapeLibraryMIB(10).physicalDrive(11).physicalDriveTable(3).physicalDriveEntry(1).phDriveVendor(4)

**Module:** ADIC-TAPE-LIBRARY-MIB

**Parent:** physicalDriveEntry

**Prev sibling:** phDriveModel

**Next sibling:** phDriveType

**Numerical syntax:** Octets

**Base syntax:** OCTET STRING

**Composed syntax:** DisplayString

**Status:** current

**Max access:** read-only

**Description:** Device Vendor as would be reported in a SCSI INQUIRY command.

## Physical Drive Type

**Name:** phDriveType

**Type:** OBJECT-TYPE

**OID:** 1.3.6.1.4.1.3764.1.10.10.11.3.1.5

**Full path:**

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).adic(3764).storage(1).library(10).tapeLibraryMIB(10).physicalDrive(11).physicalDriveTable(3).physicalDriveEntry(1).phDriveType(5)

**Module:** ADIC-TAPE-LIBRARY-MIB

**Parent:** physicalDriveEntry

**Prev sibling:** phDriveVendor

**Next sibling:** phDriveLocation

**Numerical syntax:** Octets

**Base syntax:** OCTET STRING

**Composed syntax:** DisplayString

**Status:** current

**Max access:** read-only

**Description:** Drive generation type.

## Physical Drive Location

**Name:** phDriveLocation

**Type:** OBJECT-TYPE

**OID:** 1.3.6.1.4.1.3764.1.10.10.11.3.1.6

**Full path:**

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).adic(3764).storage(1).library(10).tapeLibraryMIB(10).physicalDrive(11).physicalDriveTable(3).physicalDriveEntry(1).phDriveLocation(6)

**Module:** ADIC-TAPE-LIBRARY-MIB

**Parent:** physicalDriveEntry

**Prev sibling:** phDriveType

**Next sibling:** phDriveFirmwareVersion

**Numerical syntax:** Octets

**Base syntax:** OCTET STRING

**Composed syntax:** DisplayString

**Status:** current

**Max access:** read-only

**Description:** Location of the drive in the library.

## Physical Drive Firmware

**Name:** phDriveFirmwareVersion

**Type:** OBJECT-TYPE

**OID:** 1.3.6.1.4.1.3764.1.10.10.11.3.1.7

**Full path:**

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).adic(3764).storage(1).library(10).tapeLibraryMIB(10).physicalDrive(11).physicalDriveTable(3).physicalDriveEntry(1).phDriveFirmwareVersion(7)

**Module:** ADIC-TAPE-LIBRARY-MIB

**Parent:** physicalDriveEntry

**Prev sibling:** phDriveLocation

**Next sibling:** phDriveLogicalLibraryName

**Numerical syntax:** Octets

**Base syntax:** OCTET STRING

**Composed syntax:** DisplayString

**Status:** current

**Max access:** read-only

**Description:** Device firmware level as would be reported in a SCSI INQUIRY command.

## Physical Drive Logical Library Name

**Name:** phDriveLogicalLibraryName

**Type:** OBJECT-TYPE

**OID:** 1.3.6.1.4.1.3764.1.10.10.11.3.1.8

**Full path:**

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).adic(3764).storage(1).library(10).tapeLibraryMIB(10).physicalDrive(11).physicalDriveTable(3).physicalDriveEntry(1).phDriveLogicalLibraryName(8)



**Module:** ADIC-TAPE-LIBRARY-MIB

**Parent:** physicalDriveEntry

**Prev sibling:** phDriveFirmwareVersion

**Next sibling:** phDriveLibrarySerialNumber

**Numerical syntax:** Octets

**Base syntax:** OCTET STRING

**Composed syntax:** DisplayString

**Status:** current

**Max access:** read-only

**Description:** Name of the logical library (partition) with which this physical drive is associated. If the drive is not associated with a logical library, this field will be blank.

## Physical Drive Library Serial Number

**Name:** phDriveLibrarySerialNumber

**Type:** OBJECT-TYPE

**OID:** 1.3.6.1.4.1.3764.1.10.10.11.3.1.9

**Full path:**

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).adic(3764).storage(1).library(10).tapeLibraryMIB(10).physicalDrive(11).physicalDriveTable(3).physicalDriveEntry(1).phDriveLibrarySerialNumber(9)

**Module:** ADIC-TAPE-LIBRARY-MIB

**Parent:** physicalDriveEntry

**Prev sibling:** phDriveLogicalLibraryName

**Next sibling:** phDriveState

**Numerical syntax:** Octets

**Base syntax:** OCTET STRING

**Composed syntax:** DisplayString

**Status:** current

**Max access:** read-only

**Description:** Serial number of the library that this drive resides in as reported in SCSI INQUIRY command.

## Physical Drive State

**Name:** phDriveState

**Type:** OBJECT-TYPE

**OID:** 1.3.6.1.4.1.3764.1.10.10.11.3.1.10

**Full path:**

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).adic(3764).storage(1).library(10).tapeLibraryMIB(10).physicalDrive(11).physicalDriveTable(3).physicalDriveEntry(1).phDriveState(10)

**Module:** ADIC-TAPE-LIBRARY-MIB

**Parent:** physicalDriveEntry

**Prev sibling:** phDriveLibrarySerialNumber

**Next sibling:** phDriveRasStatus

**Numerical syntax:** Integer (32 bit)

**Base syntax:** INTEGER

**Composed syntax:** OnlineState

**Status:** current

**Max access:** read-only

**Description:** Device SCSI state.

## Physical Drive Health Status

**Name:** phDriveRasStatus

**Type:** OBJECT-TYPE

**OID:** 1.3.6.1.4.1.3764.1.10.10.11.3.1.11

**Full path:**

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).adic(3764).storage(1).library(10).tapeLibraryMIB(10).physicalDrive(11).physicalDriveTable(3).physicalDriveEntry(1).phDriveRasStatus(11)

**Module:** ADIC-TAPE-LIBRARY-MIB

**Parent:** physicalDriveEntry

**Prev sibling:** phDriveState

**Next sibling:** phDriveNeedsCleaning

**Numerical syntax:** Integer (32 bit)

**Base syntax:** INTEGER

**Composed syntax:** RASSubSystemStatus

**Status:** current

**Max access:** read-only

**Description:** Drive health status.

## Physical Drive Cleaning Status

**Name:** phDriveNeedsCleaning

**Type:** OBJECT-TYPE

**OID:** 1.3.6.1.4.1.3764.1.10.10.11.3.1.12

**Full path:**

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).adic(3764).storage(1).library(10).tapeLibraryMIB(10).physicalDrive(11).physicalDriveTable(3).physicalDriveEntry(1).phDriveNeedsCleaning(12)

**Module:** ADIC-TAPE-LIBRARY-MIB

**Parent:** physicalDriveEntry

**Prev sibling:** phDriveRasStatus

**Next sibling:** phDriveInterfaceType

**Numerical syntax:** Integer (32 bit)

**Base syntax:** INTEGER

**Composed syntax:** CleaningStatus

**Status:** current

**Max access:** read-only

**Description:** Cleaning status of the drive.

## Physical Drive Interface Type

**Name:** phDriveInterfaceType

**Type:** OBJECT-TYPE

**OID:** 1.3.6.1.4.1.3764.1.10.10.11.3.1.13

**Full path:**

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).adic(3764).storage(1).library(10).tapeLibraryMIB(10).physicalDrive(11).physicalDriveTable(3).physicalDriveEntry(1).phDriveInterfaceType(13)

**Module:** ADIC-TAPE-LIBRARY-MIB

**Parent:** physicalDriveEntry

**Prev sibling:** phDriveNeedsCleaning

**Next sibling:** phDriveScsiLun

**Numerical syntax:** Integer (32 bit)

**Base syntax:** INTEGER

**Composed syntax:** InterfaceType

**Status:** current

**Max access:** read-only

**Description:** Interface type of the drive.

## Physical Drive SCSI LUN

**Name:** phDriveScsiLun

**Type:** OBJECT-TYPE

**OID:** 1.3.6.1.4.1.3764.1.10.10.11.3.1.14

**Full path:**

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).adic(3764).storage(1).library(10).tapeLibraryMIB(10).physicalDrive(11).physicalDriveTable(3).physicalDriveEntry(1).phDriveScsiLun(14)

**Module:** ADIC-TAPE-LIBRARY-MIB

**Parent:** physicalDriveEntry

**Prev sibling:** phDriveInterfaceType

**Next sibling:** phDriveScsild

**Numerical syntax:** Integer (32 bit)

**Base syntax:** Integer32

**Composed syntax:** Integer32

**Status:** current

**Max access:** read-only

**Description:** SCSI LUN of the device.

## Physical Drive SCSI ID

**Name:** phDriveScsild

**Type:** OBJECT-TYPE

**OID:** 1.3.6.1.4.1.3764.1.10.10.11.3.1.15

**Full path:**

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).adic(3764).storage(1).library(10).tapeLibraryMIB(10).physicalDrive(11).physicalDriveTable(3).physicalDriveEntry(1).phDriveScsild(15)

**Module:** ADIC-TAPE-LIBRARY-MIB

**Parent:** physicalDriveEntry

**Prevsibling:** phDriveScsiLun

**Next sibling:** phDriveLoads

**Numerical syntax:** Integer (32 bit)

**Base syntax:** Integer32

**Composed syntax:** Integer32

**Status:** current

**Max access:** read-only

**Description:** SCSI ID of the device.

## Physical Drive Loads

**Name:** phDriveLoads

**Type:** OBJECT-TYPE

**OID:** 1.3.6.1.4.1.3764.1.10.10.11.3.1.16

**Full path:**

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).adic(3764).storage(1).library(10).tapeLibraryMIB(10).physicalDrive(11).physicalDriveTable(3).physicalDriveEntry(1).phDriveLoads(16)

**Module:** ADIC-TAPE-LIBRARY-MIB

**Parent:** physicalDriveEntry

**Prev sibling:** phDriveScsild

**Next sibling:** phDrivePhysicalSerialNumber

**Numerical syntax:** Integer (32 bit)

**Base syntax:** Integer32

**Composed syntax:** Integer32

**Status:** current

**Max access:** read-only

**Description:** Total cartridge loads for the drive.

## Physical Drive Physical Serial Number

**Name:** phDrivePhysicalSerialNumber

**Type:** OBJECT-TYPE

**OID:** 1.3.6.1.4.1.3764.1.10.10.11.3.1.17

**Full path:**

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).adic(3764).storage(1).library(10).tapeLibraryMIB(10).physicalDrive(11).physicalDriveTable(3).physicalDriveEntry(1).phDrivePhysicalSerialNumber(17)

**Module:** ADIC-TAPE-LIBRARY-MIB

**Parent:** physicalDriveEntry

**Prev sibling:** phDriveLoads

**Numerical syntax:** Octets

**Base syntax:** OCTET STRING

**Composed syntax:** DisplayString

**Status:** current

**Max access:** read-only

**Description:** Physical drive serial number.

## Library Interfaces - Fibre Channel

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### Fibre Channel Port Type

**Name:** fcPortType

**Type:** OBJECT-TYPE

**OID:** 1.3.6.1.4.1.3764.1.10.10.15.1.1.2

**Full path:**

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).adic(3764).storage(1).library(10).tapeLibraryMIB(10).libraryInterfaces(15).fcPortTable(1).fcPortEntry(1).fcPortType(2)

**Module:** ADIC-TAPE-LIBRARY-MIB

**Parent:** fcPortEntry

**Prev sibling:** fcPortIndex

**Next sibling:** fcPortWWNodeName

**Numerical syntax:** Integer (32 bit)

**Base syntax:** INTEGER

**Composed syntax:** FCPortType

**Status:** current

**Max access:** read-only

**Description:** Fibre Channel port type.

## Fibre Channel Port World Wide Node Name

**Name:** fcPortWWNodeName

**Type:** OBJECT-TYPE

**OID:** 1.3.6.1.4.1.3764.1.10.10.15.1.1.3

**Full path:**

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).adic(3764).storage(1).library(10).tapeLibraryMIB(10).libraryInterfaces(15).fcPortTable(1).fcPortEntry(1).fcPortWWNodeName(3)

**Module:** ADIC-TAPE-LIBRARY-MIB

**Parent:** fcPortEntry

**Prev sibling:** fcPortType

**Next sibling:** fcPortWWPortName

**Numerical syntax:** Octets

**Base syntax:** OCTET STRING

**Composed syntax:** DisplayString

**Status:** current

**Max access:** read-only

**Description:** 8-byte value representing the drive's World Wide Node Name.

## Fibre Channel Port World Wide Port Name (WWPN)

**Name:** fcPortWWPortName

**Type:** OBJECT-TYPE

**OID:** 1.3.6.1.4.1.3764.1.10.10.15.1.1.4

**Full path:**

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).adic(3764).storage(1).library(10).tapeLibraryMIB(10).libraryInterfaces(15).fcPortTable(1).fcPortEntry(1).fcPortWWPortName(4)

**Module:** ADIC-TAPE-LIBRARY-MIB

**Parent:** fcPortEntry

**Prev sibling:** fcPortWWNodeName

**Next sibling:** fcPortLoopId

**Numerical syntax:** Octets

**Base syntax:** OCTET STRING

**Composed syntax:** DisplayString

**Status:** current

**Max access:** read-only

**Description:** World Wide Name of a port in the Fibre Channel fabric.

## Fibre Channel Port Loop ID

**Name:** fcPortLoopId

**Type:** OBJECT-TYPE

**OID:** 1.3.6.1.4.1.3764.1.10.10.15.1.1.5

**Full path:**

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).adic(3764).storage(1).library(10).tapeLibraryMIB(10).libraryInterfaces(15).fcPortTable(1).fcPortEntry(1).fcPortLoopId(5)

**Module:** ADIC-TAPE-LIBRARY-MIB

**Parent:** fcPortEntry

**Prev sibling:** fcPortWWPortName

**Next sibling:** fcPortLoopIdMode

**Numerical syntax:** Integer (32 bit)

**Base syntax:** Integer32

**Composed syntax:** Integer32

**Status:** current

**Max access:** read-only

**Description:** Loop ID for Fibre Channel drives; undefined for drives of other interface types.

## Fibre Channel Port Loop ID Mode

**Name:** fcPortLoopIdMode

**Type:** OBJECT-TYPE

**OID:** 1.3.6.1.4.1.3764.1.10.10.15.1.1.6

**Full path:**

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).adic(3764).storage(1).library(10).tapeLibraryMIB(10).libraryInterfaces(15).fcPortTable(1).fcPortEntry(1).fcPortLoopIdMode(6)

**Module:** ADIC-TAPE-LIBRARY-MIB

**Parent:** fcPortEntry

**Prev sibling:** fcPortLoopId

**Next sibling:** fcPortId

**Numerical syntax:** Integer (32 bit)

**Base syntax:** INTEGER

**Composed syntax:** FCPortLoopIdMode

**Status:** current

**Max access:** read-only

**Description:** Loop ID mode for Fibre Channel drives; undefined for drives of other interface types. Controls negotiation of the port ID on the Fibre Channel connection.

## Fibre Channel Port ID

**Name:** fcPortId

**Type:** OBJECT-TYPE

**OID:** 1.3.6.1.4.1.3764.1.10.10.15.1.1.7

**Full path:**

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).adic(3764).storage(1).library(10).tapeLibraryMIB(10).libraryInterfaces(15).fcPortTable(1).fcPortEntry(1).fcPortId(7)

**Module:** ADIC-TAPE-LIBRARY-MIB

**Parent:** fcPortEntry

**Prev sibling:** fcPortLoopIdMode

**Next sibling:** fcPortNegotiatedSpeed

**Numerical syntax:** Integer (32 bit)

**Base syntax:** Integer32

**Composed syntax:** Integer32

**Status:** current

**Max access:** read-only

**Description:** Port ID for fabric attached Fibre Channel drives; undefined for drives of other interface types.

## Fibre Channel Port Negotiated Speed

**Name:** fcPortNegotiatedSpeed

**Type:** OBJECT-TYPE

**OID:** 1.3.6.1.4.1.3764.1.10.10.15.1.1.8

**Full path:**

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).adic(3764).storage(1).library(10).tapeLibraryMIB(10).libraryInterfaces(15).fcPortTable(1).fcPortEntry(1).fcPortNegotiatedSpeed(8)

**Module:** ADIC-TAPE-LIBRARY-MIB

**Parent:** fcPortEntry

**Prev sibling:** fcPortId

**Next sibling:** fcPortRasStatus

**Numerical syntax:** Integer (32 bit)

**Base syntax:** INTEGER

**Composed syntax:** FCPortSpeed

**Status:** current

**Max access:** read-only

**Description:** The actual speed as negotiated. The numeric value is equal to the port speed in gigabits per second.

## Fibre Channel Port RAS Status

**Name:** fcPortRasStatus

**Type:** OBJECT-TYPE

**OID:** 1.3.6.1.4.1.3764.1.10.10.15.1.1.9

**Full path:**

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).adic(3764).storage(1).library(10).tapeLibraryMIB(10).libraryInterfaces(15).fcPortTable(1).fcPortEntry(1).fcPortRasStatus(9)



**Module:** ADIC-TAPE-LIBRARY-MIB  
**Parent:** fcPortEntry  
**Prev sibling:** fcPortNegotiatedSpeed  
**Next sibling:** fcPortFWRev  
**Numerical syntax:** Integer (32 bit)  
**Base syntax:** INTEGER  
**Composed syntax:** RASSubSystemStatus  
**Status:** current  
**Max access:** read-only  
**Description:** Currently not applicable.

## Fibre Channel Port Firmware Revision

**Name:** fcPortFWRev  
**Type:** OBJECT-TYPE  
**OID:** 1.3.6.1.4.1.3764.1.10.10.15.1.1.10  
**Full path:**  
iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).adic(3764).storage(1).library(10).tapeLibraryMIB(10).libraryInterfaces(15).fcPortTable(1).fcPortEntry(1).fcPortFWRev(10)  
**Module:** ADIC-TAPE-LIBRARY-MIB  
**Parent:** fcPortEntry  
**Prev sibling:** fcPortRasStatus  
**Next sibling:** fcPortFrameSize  
**Numerical syntax:** Octets  
**Base syntax:** OCTET STRING  
**Composed syntax:** DisplayString  
**Status:** current  
**Max access:** read-only  
**Description:** Firmware revision number/identifier for this Fibre Channel controller.

## Fibre Channel Port Frame Size

**Name:** fcPortFrameSize  
**Type:** OBJECT-TYPE  
**OID:** 1.3.6.1.4.1.3764.1.10.10.15.1.1.11  
**Full path:**  
iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).adic(3764).storage(1).library(10).tapeLibraryMIB(10).libraryInterfaces(15).fcPortTable(1).fcPortEntry(1).fcPortFrameSize(11)  
**Module:** ADIC-TAPE-LIBRARY-MIB  
**Parent:** fcPortEntry  
**Prev sibling:** fcPortFWRev

**Next sibling:** fcPortDriveSerialNumber

**Numerical syntax:** Integer (32 bit)

**Base syntax:** Integer32

**Composed syntax:** Integer32

**Status:** current

**Max access:** read-only

**Description:** Fibre Channel frame size.

## Fibre Channel Port Drive Serial Number

**Name:** fcPortDriveSerialNumber

**Type:** OBJECT-TYPE

**OID:** 1.3.6.1.4.1.3764.1.10.10.15.1.1.12

**Full path:**

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).adic(3764).storage(1).library(10).tapeLibraryMIB(10).libraryInterfaces(15).fcPortTable(1).fcPortEntry(1).fcPortDriveSerialNumber(12)

**Module:** ADIC-TAPE-LIBRARY-MIB

**Parent:** fcPortEntry

**Prev sibling:** fcPortFrameSize

**Next sibling:** fcPortLogicalLibrarySerialNumber

**Numerical syntax:** Octets

**Base syntax:** OCTET STRING

**Composed syntax:** DisplayString

**Status:** current

**Max access:** read-only

**Description:** Tape drive serial number.

## Fibre Channel Port Logical Library Serial Number

**Name:** fcPortLogicalLibrarySerialNumber

**Type:** OBJECT-TYPE

**OID:** 1.3.6.1.4.1.3764.1.10.10.15.1.1.13

**Full path:**

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).adic(3764).storage(1).library(10).tapeLibraryMIB(10).libraryInterfaces(15).fcPortTable(1).fcPortEntry(1).fcPortLogicalLibrarySerialNumber(13)

**Module:** ADIC-TAPE-LIBRARY-MIB

**Parent:** fcPortEntry

**Prev sibling:** fcPortDriveSerialNumber

**Numerical syntax:** Octets

**Base syntax:** OCTET STRING

**Composed syntax:** DisplayString

**Status:** current

**Max access:** read-only

**Description:** Tape drive logical library serial number.

## Library Interfaces - SAS

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### SAS Port Address

**Name:** sasPortAddress

**Type:** OBJECT-TYPE

**OID:** 1.3.6.1.4.1.3764.1.10.10.15.3.1.2

**Full path:**

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).adic(3764).storage(1).library(10).tapeLibraryMIB(10).libraryInterfaces(15).sasPortTable(3).sasPortEntry(1).sasPortAddress(2)

**Module:** ADIC-TAPE-LIBRARY-MIB

**Parent:** sasPortEntry

**Prev sibling:** sasPortIndex

**Next sibling:** sasPortRasStatus

**Numerical syntax:** Octets

**Base syntax:** OCTET STRING

**Composed syntax:** DisplayString

**Status:** current

**Max access:** read-only

**Description:** 8-byte value representing the World Wide Name for this drive.

### SAS Port RAS Status

**Name:** sasPortRasStatus

**Type:** OBJECT-TYPE

**OID:** 1.3.6.1.4.1.3764.1.10.10.15.3.1.3

**Full path:**

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).adic(3764).storage(1).library(10).tapeLibraryMIB(10).libraryInterfaces(15).sasPortTable(3).sasPortEntry(1).sasPortRasStatus(3)

**Module:** ADIC-TAPE-LIBRARY-MIB

**Parent:** sasPortEntry

**Prev sibling:** sasPortAddress

**Next sibling:** sasPortNegotiatedSpeed

**Numerical syntax:** Integer (32 bit)

**Base syntax:** INTEGER

**Composed syntax:** RASSubSystemStatus

**Status:** current

**Max access:** read-only

**Description:** Currently not applicable.

## SAS Port Negotiated Speed

**Name:** sasPortNegotiatedSpeed

**Type:** OBJECT-TYPE

**OID:** 1.3.6.1.4.1.3764.1.10.10.15.3.1.4

**Full path:**

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).adic(3764).storage(1).library(10).tapeLibraryMIB(10).libraryInterfaces(15).sasPortTable(3).sasPortEntry(1).sasPortNegotiatedSpeed(4)

**Module:** ADIC-TAPE-LIBRARY-MIB

**Parent:** sasPortEntry

**Prev sibling:** sasPortRasStatus

**Next sibling:** sasPortFWRev

**Numerical syntax:** Integer (32 bit)

**Base syntax:** INTEGER

**Composed syntax:** SASPortSpeed

**Status:** current

**Max access:** read-only

**Description:** SAS port speed.

## SAS Port Firmware Revision

**Name:** sasPortFWRev

**Type:** OBJECT-TYPE

**OID:** 1.3.6.1.4.1.3764.1.10.10.15.3.1.5

**Full path:**

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).adic(3764).storage(1).library(10).tapeLibraryMIB(10).libraryInterfaces(15).sasPortTable(3).sasPortEntry(1).sasPortFWRev(5)

**Module:** ADIC-TAPE-LIBRARY-MIB

**Parent:** sasPortEntry

**Prev sibling:** sasPortNegotiatedSpeed

**Next sibling:** sasPortDriveSerialNumber

**Numerical syntax:** Octets

**Base syntax:** OCTET STRING

**Composed syntax:** DisplayString

**Status:** current

**Max access:** read-only

**Description:** Firmware revision for this tape drive.

## SAS Port Drive Serial Number

**Name:** sasPortDriveSerialNumber

**Type:** OBJECT-TYPE

**OID:** 1.3.6.1.4.1.3764.1.10.10.15.3.1.6

**Full path:**

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).adic(3764).storage(1).library(10).tapeLibraryMIB(10).libraryInterfaces(15).sasPortTable(3).sasPortEntry(1).sasPortDriveSerialNumber(6)

**Module:** ADIC-TAPE-LIBRARY-MIB

**Parent:** sasPortEntry

**Prev sibling:** sasPortFWRev

**Next sibling:** sasPortLogicalLibrarySN

**Numerical syntax:** Octets

**Base syntax:** OCTET STRING

**Composed syntax:** DisplayString

**Status:** current

**Max access:** read-only

**Description:** Tape drive serial number.

## SAS Port Logical Library Serial Number

**Name:** sasPortLogicalLibrarySN

**Type:** OBJECT-TYPE

**OID:** 1.3.6.1.4.1.3764.1.10.10.15.3.1.7

**Full path:**

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).adic(3764).storage(1).library(10).tapeLibraryMIB(10).libraryInterfaces(15).sasPortTable(3).sasPortEntry(1).sasPortLogicalLibrarySN(7)

**Module:** ADIC-TAPE-LIBRARY-MIB

**Parent:** sasPortEntry

**Prev sibling:** sasPortDriveSerialNumber

**Numerical syntax:** Octets

**Base syntax:** OCTET STRING

**Composed syntax:** DisplayString

**Status:** current

**Max access:** read-only

**Description:** Logical library serial number.

# Library Interfaces - SCSI

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## SCSI Controller RAS Status

**Name:** scsiControllerRasStatus

**Type:** OBJECT-TYPE

**OID:** 1.3.6.1.4.1.3764.1.10.10.15.2.1.2

**Full path:**

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).adic(3764).storage(1).library(10).tapeLibraryMIB(10).libraryInterfaces(15).scsiControllerTable(2).scsiControllerEntry(1).scsiControllerRasStatus(2)

**Module:** ADIC-TAPE-LIBRARY-MIB

**Parent:** scsiControllerEntry

**Prev sibling:** scsiControllerIndex

**Next sibling:** scsiControllerSpeed

**Numerical syntax:** Integer (32 bit)

**Base syntax:** INTEGER

**Composed syntax:** RASSubSystemStatus

**Status:** current

**Max access:** read-only

**Description:** Currently not applicable.

## SCSI Controller Speed

**Name:** scsiControllerSpeed

**Type:** OBJECT-TYPE

**OID:** 1.3.6.1.4.1.3764.1.10.10.15.2.1.3

**Full path:**

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).adic(3764).storage(1).library(10).tapeLibraryMIB(10).libraryInterfaces(15).scsiControllerTable(2).scsiControllerEntry(1).scsiControllerSpeed(3)

**Module:** ADIC-TAPE-LIBRARY-MIB

**Parent:** scsiControllerEntry

**Prev sibling:** scsiControllerRasStatus

**Next sibling:** scsiControllerRole

**Numerical syntax:** Integer (32 bit)

**Base syntax:** INTEGER

**Composed syntax:** SCSI CtrlSpeed

**Status:** current

**Max access:** read-only

**Description:** SCSI transaction speed.

## SCSI Controller Role

**Name:** scsiControllerRole

**Type:** OBJECT-TYPE

**OID:** 1.3.6.1.4.1.3764.1.10.10.15.2.1.4

**Full path:**

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).adic(3764).storage(1).library(10).tapeLibraryMIB(10).libraryInterfaces(15).scsiControllerTable(2).scsiControllerEntry(1).scsiControllerRole(4)

**Module:** ADIC-TAPE-LIBRARY-MIB

**Parent:** scsiControllerEntry

**Prev sibling:** scsiControllerSpeed

**Next sibling:** scsiControllerIoCard

**Numerical syntax:** Integer (32 bit)

**Base syntax:** INTEGER

**Composed syntax:** INTEGER

**Status:** current

**Max access:** read-only

**Value list:**

1: target(0)

2: initiator(1)

**Description:** SCSI role of the drive (target or initiator).

## SCSI Controller I/O Card

**Name:** scsiControllerIoCard

**Type:** OBJECT-TYPE

**OID:** 1.3.6.1.4.1.3764.1.10.10.15.2.1.5

**Full path:**

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).adic(3764).storage(1).library(10).tapeLibraryMIB(10).libraryInterfaces(15).scsiControllerTable(2).scsiControllerEntry(1).scsiControllerIoCard(5)

**Module:** ADIC-TAPE-LIBRARY-MIB

**Parent:** scsiControllerEntry

**Prev sibling:** scsiControllerRole

**Next sibling:** scsiControllerMaxIds

**Numerical syntax:** Integer (32 bit)

**Base syntax:** INTEGER

**Composed syntax:** SCSI CtrlCardType

**Status:** current

**Max access:** read-only

**Description:** Type of SCSI controller hardware.

## SCSI Controller Maximum IDs

**Name:** scsiControllerMaxIds

**Type:** OBJECT-TYPE

**OID:** 1.3.6.1.4.1.3764.1.10.10.15.2.1.6

**Full path:**

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).adic(3764).storage(1).library(10).tapeLibraryMIB(10).libraryInterfaces(15).scsiControllerTable(2).scsiControllerEntry(1).scsiControllerMaxIds(6)

**Module:** ADIC-TAPE-LIBRARY-MIB

**Parent:** scsiControllerEntry

**Prev sibling:** scsiControllerIoCard

**Next sibling:** scsiControllerMaxLuns

**Numerical syntax:** Integer (32 bit)

**Base syntax:** INTEGER

**Composed syntax:** INTEGER

**Status:** current

**Max access:** read-only

**Description:** Maximum Number of IDs for this SCSI controller.

## SCSI Controller Maximum LUNs

**Name:** scsiControllerMaxLuns

**Type:** OBJECT-TYPE

**OID:** 1.3.6.1.4.1.3764.1.10.10.15.2.1.7

**Full path:**

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).adic(3764).storage(1).library(10).tapeLibraryMIB(10).libraryInterfaces(15).scsiControllerTable(2).scsiControllerEntry(1).scsiControllerMaxLuns(7)

**Module:** ADIC-TAPE-LIBRARY-MIB

**Parent:** scsiControllerEntry

**Prev sibling:** scsiControllerMaxIds

**Next sibling:** scsiControllerMaxWidth

**Numerical syntax:** Integer (32 bit)

**Base syntax:** INTEGER

**Composed syntax:** INTEGER

**Status:** current

**Max access:** read-only

**Description:** Maximum Number of LUNs for this SCSI controller.

## SCSI Controller Maximum Width

**Name:** scsiControllerMaxWidth

**Type:** OBJECT-TYPE



**OID:** 1.3.6.1.4.1.3764.1.10.10.15.2.1.8

**Full path:**

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).adic(3764).storage(1).library(10).tapeLibraryMIB(10).libraryInterfaces(15).scsiControllerTable(2).scsiControllerEntry(1).scsiControllerMaxWidth(8)

**Module:** ADIC-TAPE-LIBRARY-MIB

**Parent:** scsiControllerEntry

**Prev sibling:** scsiControllerMaxLuns

**Next sibling:** scsiControllerFWRev

**Numerical syntax:** Integer (32 bit)

**Base syntax:** INTEGER

**Composed syntax:** INTEGER

**Status:** current

**Max access:** read-only

**Description:** Maximum transfer width in bits.

## SCSI Controller Firmware Revision

**Name:** scsiControllerFWRev

**Type:** OBJECT-TYPE

**OID:** 1.3.6.1.4.1.3764.1.10.10.15.2.1.9

**Full path:**

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).adic(3764).storage(1).library(10).tapeLibraryMIB(10).libraryInterfaces(15).scsiControllerTable(2).scsiControllerEntry(1).scsiControllerFWRev(9)

**Module:** ADIC-TAPE-LIBRARY-MIB

**Parent:** scsiControllerEntry

**Prev sibling:** scsiControllerMaxWidth

**Next sibling:** scsiControllerDriveSerialNumber

**Numerical syntax:** Octets

**Base syntax:** OCTET STRING

**Composed syntax:** DisplayString

**Status:** current

**Max access:** read-only

**Description:** Firmware revision for this SCSI controller.

## SCSI Controller Drive Serial Number

**Name:** scsiControllerDriveSerialNumber

**Type:** OBJECT-TYPE

**OID:** 1.3.6.1.4.1.3764.1.10.10.15.2.1.10

**Full path:**

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).adic(3764).storage(1).library(10).tapeLibraryMIB(10).libraryInterfaces(15).scsiControllerTable(2).scsiControllerEntry(1).scsiControllerDriveSerialNumber(10)

**Module:** ADIC-TAPE-LIBRARY-MIB

**Parent:** scsiControllerEntry

**Prev sibling:** scsiControllerFWRev

**Next sibling:** scsiControllerLogicalLibrarySN

**Numerical syntax:** Octets

**Base syntax:** OCTET STRING

**Composed syntax:** DisplayString

**Status:** current

**Max access:** read-only

**Description:** Serial number of tape drive.

## SCSI Controller Logical Library Serial Number

**Name:** scsiControllerLogicalLibrarySN

**Type:** OBJECT-TYPE

**OID:** 1.3.6.1.4.1.3764.1.10.10.15.2.1.11

**Full path:**

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).adic(3764).storage(1).library(10).tapeLibraryMIB(10).libraryInterfaces(15).scsiControllerTable(2).scsiControllerEntry(1).scsiControllerLogicalLibrarySN(11)

**Module:** ADIC-TAPE-LIBRARY-MIB

**Parent:** scsiControllerEntry

**Prev sibling:** scsiControllerDriveSerialNumber

**Numerical syntax:** Octets

**Base syntax:** OCTET STRING

**Composed syntax:** DisplayString

**Status:** current

**Max access:** read-only

**Description:** Logical library serial number.

# 4

## MIB Variables - Library System Information

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You can poll the variables in this section to obtain information about the library. The Library System Information variables contain the following subsystems:

- [Tape Library System](#)
- [Physical Library](#)
- [Logical Library](#)
- [Fibre Channel I/O Blade Interfaces](#)



NOTE: All variables share the same object ID (OID) prefix of:  
1.3.6.1.4.1.3764.1.10.10

### Tape Library System

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#### Library IP Address

**Name:** libraryIpAddress

**Type:** OBJECT-TYPE

**OID:** 1.3.6.1.4.1.3764.1.10.10.1.1

**Full path:**

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).adic(3764).storage(1).library(10).tapeLibraryMIB(10).tapeLibrarySystem(1).libraryIpAddress(1)

**Module:** ADIC-TAPE-LIBRARY-MIB

**Parent:** tapeLibrarySystem

**Next sibling:** librarySNMPAgentDescription

**Numerical syntax:** Octets

**Base syntax:** OCTET STRING

**Composed syntax:** DisplayString

**Status:** current

**Max access:** read-only

**Description:** The IP address this SNMP agent. If the library has only an IPv4 address, or both an IPv4 and an IPv6 address, then the IP address is displayed in IPv4 format (xxx.xxx.xxx.xxx). If the library only has an IPv6 address, then it will report an IPv6 format address.

## Library SNMP Agent Description

**Name:** librarySNMPAgentDescription

**Type:** OBJECT-TYPE

**OID:** 1.3.6.1.4.1.3764.1.10.10.1.2

**Full path:**

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).adic(3764).storage(1).library(10).tapeLibraryMIB(10).tapeLibrarySystem(1).librarySNMPAgentDescription(2)

**Module:** ADIC-TAPE-LIBRARY-MIB

**Parent:** tapeLibrarySystem

**Prev sibling:** libraryIpAddress

**Next sibling:** libraryName

**Numerical syntax:** Octets

**Base syntax:** OCTET STRING

**Composed syntax:** DisplayString

**Status:** current

**Max access:** read-only

**Description:** Description of the library SNMP agent.

## Library Name

**Name:** libraryName

**Type:** OBJECT-TYPE

**OID:** 1.3.6.1.4.1.3764.1.10.10.1.3

**Full path:**

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).adic(3764).storage(1).library(10).tapeLibraryMIB(10).tapeLibrarySystem(1).libraryName(3)

**Module:** ADIC-TAPE-LIBRARY-MIB

**Parent:** tapeLibrarySystem

**Prev sibling:** librarySNMPAgentDescription

**Next sibling:** libraryVendor

**Numerical syntax:** Octets

**Base syntax:** OCTET STRING

**Composed syntax:** DisplayString

**Status:** current

**Max access:** read-only

**Description:** The host name for the system hosting the SNMP agent.

## Library Vendor

**Name:** libraryVendor

**Type:** OBJECT-TYPE

**OID:** 1.3.6.1.4.1.3764.1.10.10.1.4

**Full path:**

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).adic(3764).storage(1).library(10).tapeLibraryMIB(10).tapeLibrarySystem(1).libraryVendor(4)

**Module:** ADIC-TAPE-LIBRARY-MIB

**Parent:** tapeLibrarySystem

**Prev sibling:** libraryName

**Next sibling:** librarySerialNumber

**Numerical syntax:** Octets

**Base syntax:** OCTET STRING

**Composed syntax:** DisplayString

**Status:** current

**Max access:** read-only

**Description:** Name of library vendor

## Library Serial Number

**Name:** librarySerialNumber

**Type:** OBJECT-TYPE

**OID:** 1.3.6.1.4.1.3764.1.10.10.1.5

**Full path:**

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).adic(3764).storage(1).library(10).tapeLibraryMIB(10).tapeLibrarySystem(1).librarySerialNumber(5)

**Module:** ADIC-TAPE-LIBRARY-MIB

**Parent:** tapeLibrarySystem

**Prev sibling:** libraryVendor

**Next sibling:** libraryDescription

**Numerical syntax:** Octets

**Base syntax:** OCTET STRING

**Composed syntax:** DisplayString

**Status:** current

**Max access:** read-only

**Description:** Library serial number.

## Library Description

**Name:** libraryDescription

**Type:** OBJECT-TYPE

**OID:** 1.3.6.1.4.1.3764.1.10.10.1.6

**Full path:**

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).adic(3764).storage(1).library(10).tapeLibraryMIB(10).tapeLibrarySystem(1).libraryDescription(6)

**Module:** ADIC-TAPE-LIBRARY-MIB

**Parent:** tapeLibrarySystem

**Prev sibling:** librarySerialNumber

**Next sibling:** libraryModel

**Numerical syntax:** Octets

**Base syntax:** OCTET STRING

**Composed syntax:** DisplayString

**Status:** current

**Max access:** read-only

**Description:** Description of library.

## Library Model

**Name:** libraryModel

**Type:** OBJECT-TYPE

**OID:** 1.3.6.1.4.1.3764.1.10.10.1.7

**Full path:**

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).adic(3764).storage(1).library(10).tapeLibraryMIB(10).tapeLibrarySystem(1).libraryModel(7)

**Module:** ADIC-TAPE-LIBRARY-MIB

**Parent:** tapeLibrarySystem

**Prev sibling:** libraryDescription

**Next sibling:** libraryGlobalStatus

**Numerical syntax:** Octets

**Base syntax:** OCTET STRING

**Composed syntax:** DisplayString

**Status:** current

**Max access:** read-only

**Description:** Model of the library.

## Library Global Status

**Name:** libraryGlobalStatus

**Type:** OBJECT-TYPE

**OID:** 1.3.6.1.4.1.3764.1.10.10.1.8

**Full path:**

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).adic(3764).storage(1).library(10).tapeLibraryMIB(10).tapeLibrarySystem(1).libraryGlobalStatus(8)

**Module:** ADIC-TAPE-LIBRARY-MIB

**Parent:** tapeLibrarySystem

**Prev sibling:** libraryModel

**Next sibling:** libraryURL

**Numerical syntax:** Integer (32 bit)

**Base syntax:** INTEGER

**Composed syntax:** RASSubSystemStatus

**Status:** current

**Max access:** read-only

**Description:** Current status of the entire library system (including all attached drives).

## Library URL

**Name:** libraryURL

**Type:** OBJECT-TYPE

**OID:** 1.3.6.1.4.1.3764.1.10.10.1.9

**Full path:**

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).adic(3764).storage(1).library(10).tapeLibraryMIB(10).tapeLibrarySystem(1).libraryURL(9)

**Module:** ADIC-TAPE-LIBRARY-MIB

**Parent:** tapeLibrarySystem

**Prev sibling:** libraryGlobalStatus

**Next sibling:** libraryProductName

**Numerical syntax:** Octets

**Base syntax:** OCTET STRING

**Composed syntax:** DisplayString

**Status:** current

**Max access:** read-only

**Description:** URL of the library's management application.

## Library Product Name

**Name:** libraryProductName

**Type:** OBJECT-TYPE

**OID:** 1.3.6.1.4.1.3764.1.10.10.1.10

**Full path:**

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).adic(3764).storage(1).library(10).tapeLibraryMIB(10).tapeLibrarySystem(1).libraryProductName(10)

**Module:** ADIC-TAPE-LIBRARY-MIB

**Parent:** tapeLibrarySystem

**Prev sibling:** libraryURL

**Next sibling:** libraryFirmwareVersion  
**Numerical syntax:** Octets  
**Base syntax:** OCTET STRING  
**Composed syntax:** DisplayString  
**Status:** current  
**Max access:** read-only  
**Description:** Product name of the library.

## Library Firmware Version

**Name:** libraryFirmwareVersion  
**Type:** OBJECT-TYPE  
**OID:** 1.3.6.1.4.1.3764.1.10.10.1.11  
**Full path:**  
iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).adic(3764).storage(1).library(10).tapeLibraryMIB(10).tapeLibrarySystem(1).libraryFirmwareVersion(11)  
**Module:** ADIC-TAPE-LIBRARY-MIB  
**Parent:** tapeLibrarySystem  
**Prev sibling:** libraryProductName  
**Numerical syntax:** Octets  
**Base syntax:** OCTET STRING  
**Composed syntax:** DisplayString  
**Status:** current  
**Max access:** read-only  
**Description:** Library firmware version.

## Physical Library

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### Physical Library State

**Name:** physicalLibraryState  
**Type:** OBJECT-TYPE  
**OID:** 1.3.6.1.4.1.3764.1.10.10.14.1  
**Full path:**  
iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).adic(3764).storage(1).library(10).tapeLibraryMIB(10).physicalLibrary(14).physicalLibraryState(1)  
**Module:** ADIC-TAPE-LIBRARY-MIB  
**Parent:** physicalLibrary  
**Next sibling:** aggregatedMainDoorStatus  
**Numerical syntax:** Integer (32 bit)



**Base syntax:** INTEGER

**Composed syntax:** OnlineState

**Status:** current

**Max access:** read-only

**Description:** Physical library's overall online status.

## Aggregated Main Door Status

**Name:** aggregatedMainDoorStatus

**Type:** OBJECT-TYPE

**OID:** 1.3.6.1.4.1.3764.1.10.10.14.2

**Full path:**

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).adic(3764).storage(1).library(10).tapeLibraryMIB(10).physicalLibrary(14).aggregatedMainDoorStatus(2)

**Module:** ADIC-TAPE-LIBRARY-MIB

**Parent:** physicalLibrary

**Prev sibling:** physicalLibraryState

**Next sibling:** aggregatedIEDoorStatus

**Numerical syntax:** Integer (32 bit)

**Base syntax:** INTEGER

**Composed syntax:** LibraryDoorStatus

**Status:** current

**Max access:** read-only

**Description:** The status is "open" if any door is open.

## Aggregated Import Export (I/E) Door Status

**Name:** aggregatedIEDoorStatus

**Type:** OBJECT-TYPE

**OID:** 1.3.6.1.4.1.3764.1.10.10.14.3

**Full path:**

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).adic(3764).storage(1).library(10).tapeLibraryMIB(10).physicalLibrary(14).aggregatedIEDoorStatus(3)

**Module:** ADIC-TAPE-LIBRARY-MIB

**Parent:** physicalLibrary

**Prev sibling:** aggregatedMainDoorStatus

**Next sibling:** numStorageSlots

**Numerical syntax:** Integer (32 bit)

**Base syntax:** INTEGER

**Composed syntax:** IEDoorStatus

**Status:** current

**Max access:** read-only

**Description:** Reports "open" if any door is open. Otherwise, reports "closedandLocked" or "closedandUnlocked."

## Number of Storage Slots

**Name:** numStorageSlots

**Type:** OBJECT-TYPE

**OID:** 1.3.6.1.4.1.3764.1.10.10.14.4

**Full path:**

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).adic(3764).storage(1).library(10).tapeLibraryMIB(10).physicalLibrary(14).numStorageSlots(4)

**Module:** ADIC-TAPE-LIBRARY-MIB

**Parent:** physicalLibrary

**Prev sibling:** aggregatedIEDoorStatus

**Next sibling:** numIESlots

**Numerical syntax:** Integer (32 bit)

**Base syntax:** Integer32

**Composed syntax:** Integer32

**Status:** current

**Max access:** read-only

**Description:** Number of storage slots.

## Number of I/E Slots

**Name:** numIESlots

**Type:** OBJECT-TYPE

**OID:** 1.3.6.1.4.1.3764.1.10.10.14.5

**Full path:**

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).adic(3764).storage(1).library(10).tapeLibraryMIB(10).physicalLibrary(14).numIESlots(5)

**Module:** ADIC-TAPE-LIBRARY-MIB

**Parent:** physicalLibrary

**Prev sibling:** numStorageSlots

**Next sibling:** numPhDrives

**Numerical syntax:** Integer (32 bit)

**Base syntax:** Integer32

**Composed syntax:** Integer32

**Status:** current

**Max access:** read-only

**Description:** Number of I/E slots.

## Number of Physical Drives

**Name:** numPhDrives

**Type:** OBJECT-TYPE

**OID:** 1.3.6.1.4.1.3764.1.10.10.14.6

**Full path:**

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).adic(3764).storage(1).library(10).tapeLibraryMIB(10).physicalLibrary(14).numPhDrives(6)

**Module:** ADIC-TAPE-LIBRARY-MIB

**Parent:** physicalLibrary

**Prev sibling:** numIESlots

**Next sibling:** robot

**Numerical syntax:** Integer (32 bit)

**Base syntax:** Integer32

**Composed syntax:** Integer32

**Status:** current

**Max access:** read-only

**Description:** Number of drives.

## Robot State

**Name:** robotState

**Type:** OBJECT-TYPE

**OID:** 1.3.6.1.4.1.3764.1.10.10.14.30.2

**Full path:**

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).adic(3764).storage(1).library(10).tapeLibraryMIB(10).physicalLibrary(14).robot(30).robotState(2)

**Module:** ADIC-TAPE-LIBRARY-MIB

**Parent:** robot

**Numerical syntax:** Integer (32 bit)

**Base syntax:** INTEGER

**Composed syntax:** RoboticsReadiness

**Status:** current

**Max access:** read-only

**Description:** Device SCSI state.

## Logical Library

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## Number of Logical Libraries

**Name:** numLogicalLibraries

**Type:** OBJECT-TYPE

**OID:** 1.3.6.1.4.1.3764.1.10.10.13.1

**Full path:**

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).adic(3764).storage(1).library(10).tapeLibraryMIB(10).logicalLibrary(13).numLogicalLibraries(1)

**Module:** ADIC-TAPE-LIBRARY-MIB

**Parent:** logicalLibrary

**Next sibling:** logicalLibraryTable

**Numerical syntax:** Integer (32 bit)

**Base syntax:** Integer32

**Composed syntax:** Integer32

**Status:** current

**Max access:** read-only

**Description:** Number of existing logical libraries (partitions).

## Logical Library Name

**Name:** logicalLibraryName

**Type:** OBJECT-TYPE

**OID:** 1.3.6.1.4.1.3764.1.10.10.13.2.1.2

**Full path:**

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).adic(3764).storage(1).library(10).tapeLibraryMIB(10).logicalLibrary(13).logicalLibraryTable(2).logicalLibraryEntry(1).logicalLibraryName(2)

**Module:** ADIC-TAPE-LIBRARY-MIB

**Parent:** logicalLibraryEntry

**Prev sibling:** logicalLibraryIndex

**Next sibling:** logicalLibrarySerialNumber

**Numerical syntax:** Octets

**Base syntax:** OCTET STRING

**Composed syntax:** DisplayString

**Status:** current

**Max access:** read-only

**Description:** Logical library name.

## Logical Library Serial Number

**Name:** logicalLibrarySerialNumber

**Type:** OBJECT-TYPE

**OID:** 1.3.6.1.4.1.3764.1.10.10.13.2.1.3

**Full path:**

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).adic(3764).storage(1).library(10).tapeLibraryMIB(10).logicalLibrary(13).logicalLibraryTable(2).logicalLibraryEntry(1).logicalLibrarySerialNumber(3)

**Module:** ADIC-TAPE-LIBRARY-MIB  
**Parent:** logicalLibraryEntry  
**Prev sibling:** logicalLibraryName  
**Next sibling:** logicalLibraryModel  
**Numerical syntax:** Octets  
**Base syntax:** OCTET STRING  
**Composed syntax:** DisplayString  
**Status:** current  
**Max access:** read-only  
**Description:** Logical library serial number.

## Logical Library Model

**Name:** logicalLibraryModel  
**Type:** OBJECT-TYPE  
**OID:** 1.3.6.1.4.1.3764.1.10.10.13.2.1.4  
**Full path:**  
iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).adic(3764).storage(1).library(10).tapeLibraryMIB(10).logicalLibrary(13).logicalLibraryTable(2).logicalLibraryEntry(1).logicalLibraryModel(4)  
**Module:** ADIC-TAPE-LIBRARY-MIB  
**Parent:** logicalLibraryEntry  
**Prev sibling:** logicalLibrarySerialNumber  
**Next sibling:** logicalLibraryAssignedLun  
**Numerical syntax:** Octets  
**Base syntax:** OCTET STRING  
**Composed syntax:** DisplayString  
**Status:** current  
**Max access:** read-only  
**Description:** Logical Library Model

## Logical Library Assigned LUN

**Name:** logicalLibraryAssignedLun  
**Type:** OBJECT-TYPE  
**OID:** 1.3.6.1.4.1.3764.1.10.10.13.2.1.5  
**Full path:**  
iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).adic(3764).storage(1).library(10).tapeLibraryMIB(10).logicalLibrary(13).logicalLibraryTable(2).logicalLibraryEntry(1).logicalLibraryAssignedLun(5)  
**Module:** ADIC-TAPE-LIBRARY-MIB  
**Parent:** logicalLibraryEntry  
**Prev sibling:** logicalLibraryModel

**Next sibling:** logicalLibraryMediaDomain  
**Numerical syntax:** Integer (32 bit)  
**Base syntax:** Integer32  
**Composed syntax:** Integer32  
**Status:** current  
**Max access:** read-only  
**Description:** Assigned LUN of this library's (virtual) SCSI media changer.

## Logical Library Media Domain

**Name:** logicalLibraryMediaDomain  
**Type:** OBJECT-TYPE  
**OID:** 1.3.6.1.4.1.3764.1.10.10.13.2.1.6  
**Full path:**  
iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).adic(3764).storage(1).library(10).tapeLibraryMIB(10).logicalLibrary(13).logicalLibraryTable(2).logicalLibraryEntry(1).logicalLibraryMediaDomain(6)  
**Module:** ADIC-TAPE-LIBRARY-MIB  
**Parent:** logicalLibraryEntry  
**Prev sibling:** logicalLibraryAssignedLun  
**Next sibling:** logicalLibrarySupportedMediaTypes  
**Numerical syntax:** Octets  
**Base syntax:** OCTET STRING  
**Composed syntax:** DisplayString  
**Status:** current  
**Max access:** read-only  
**Description:** Supported media domain.

## Logical Library Supported Media Types

**Name:** logicalLibrarySupportedMediaTypes  
**Type:** OBJECT-TYPE  
**OID:** 1.3.6.1.4.1.3764.1.10.10.13.2.1.7  
**Full path:**  
iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).adic(3764).storage(1).library(10).tapeLibraryMIB(10).logicalLibrary(13).logicalLibraryTable(2).logicalLibraryEntry(1).logicalLibrarySupportedMediaTypes(7)  
**Module:** ADIC-TAPE-LIBRARY-MIB  
**Parent:** logicalLibraryEntry  
**Prev sibling:** logicalLibraryMediaDomain  
**Next sibling:** logicalLibraryState  
**Numerical syntax:** Octets  
**Base syntax:** OCTET STRING

**Composed syntax:** DisplayString

**Status:** current

**Max access:** read-only

**Description:** Supported media types.

## Logical Library State

**Name:** logicalLibraryState

**Type:** OBJECT-TYPE

**OID:** 1.3.6.1.4.1.3764.1.10.10.13.2.1.8

**Full path:**

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).adic(3764).storage(1).library(10).tapeLibraryMIB(10).logicalLibrary(13).logicalLibraryTable(2).logicalLibraryEntry(1).logicalLibraryState(8)

**Module:** ADIC-TAPE-LIBRARY-MIB

**Parent:** logicalLibraryEntry

**Prev sibling:** logicalLibrarySupportedMediaTypes

**Next sibling:** logicalLibraryNumSlots

**Numerical syntax:** Integer (32 bit)

**Base syntax:** INTEGER

**Composed syntax:** OnlineState

**Status:** current

**Max access:** read-only

**Description:** Status of logical library.

## Logical Library Number of Slots

**Name:** logicalLibraryNumSlots

**Type:** OBJECT-TYPE

**OID:** 1.3.6.1.4.1.3764.1.10.10.13.2.1.9

**Full path:**

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).adic(3764).storage(1).library(10).tapeLibraryMIB(10).logicalLibrary(13).logicalLibraryTable(2).logicalLibraryEntry(1).logicalLibraryNumSlots(9)

**Module:** ADIC-TAPE-LIBRARY-MIB

**Parent:** logicalLibraryEntry

**Prev sibling:** logicalLibraryState

**Next sibling:** logicalLibraryNumIE

**Numerical syntax:** Integer (32 bit)

**Base syntax:** Integer32

**Composed syntax:** Integer32

**Status:** current

**Max access:** read-only

**Description:** Number of storage elements.

## Logical Library Number of I/E Slots

**Name:** logicalLibraryNumIE

**Type:** OBJECT-TYPE

**OID:** 1.3.6.1.4.1.3764.1.10.10.13.2.1.10

**Full path:**

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).adic(3764).storage(1).library(10).tapeLibraryMIB(10).logicalLibrary(13).logicalLibraryTable(2).logicalLibraryEntry(1).logicalLibraryNumIE(10)

**Module:** ADIC-TAPE-LIBRARY-MIB

**Parent:** logicalLibraryEntry

**Prev sibling:** logicalLibraryNumSlots

**Next sibling:** logicalLibraryNumTapeDrives

**Numerical syntax:** Integer (32 bit)

**Base syntax:** Integer32

**Composed syntax:** Integer32

**Status:** current

**Max access:** read-only

**Description:** Number of Import/Export (I/E) elements.

## Logical Library Number of Tape Drives

**Name:** logicalLibraryNumTapeDrives

**Type:** OBJECT-TYPE

**OID:** 1.3.6.1.4.1.3764.1.10.10.13.2.1.11

**Full path:**

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).adic(3764).storage(1).library(10).tapeLibraryMIB(10).logicalLibrary(13).logicalLibraryTable(2).logicalLibraryEntry(1).logicalLibraryNumTapeDrives(11)

**Module:** ADIC-TAPE-LIBRARY-MIB

**Parent:** logicalLibraryEntry

**Prev sibling:** logicalLibraryNumIE

**Next sibling:** logicalLibraryStorageElemAddr

**Numerical syntax:** Integer (32 bit)

**Base syntax:** Integer32

**Composed syntax:** Integer32

**Status:** current

**Max access:** read-only

**Description:** Number of tape drives in the partition.



## Logical Library Storage Element Address

**Name:** logicalLibraryStorageElemAddr

**Type:** OBJECT-TYPE

**OID:** 1.3.6.1.4.1.3764.1.10.10.13.2.1.12

**Full path:**

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).adic(3764).storage(1).library(10).tapeLibraryMIB(10).logicalLibrary(13).logicalLibraryTable(2).logicalLibraryEntry(1).logicalLibraryStorageElemAddr(12)

**Module:** ADIC-TAPE-LIBRARY-MIB

**Parent:** logicalLibraryEntry

**Prev sibling:** logicalLibraryNumTapeDrives

**Next sibling:** logicalLibraryIEElemAddr

**Numerical syntax:** Integer (32 bit)

**Base syntax:** Integer32

**Composed syntax:** Integer32

**Status:** current

**Max access:** read-only

**Description:** First storage element address of the partition.

## Logical Library I/E Element Address

**Name:** logicalLibraryIEElemAddr

**Type:** OBJECT-TYPE

**OID:** 1.3.6.1.4.1.3764.1.10.10.13.2.1.13

**Full path:**

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).adic(3764).storage(1).library(10).tapeLibraryMIB(10).logicalLibrary(13).logicalLibraryTable(2).logicalLibraryEntry(1).logicalLibraryIEElemAddr(13)

**Module:** ADIC-TAPE-LIBRARY-MIB

**Parent:** logicalLibraryEntry

**Prev sibling:** logicalLibraryStorageElemAddr

**Next sibling:** logicalLibraryTapeDriveElemAddr

**Numerical syntax:** Integer (32 bit)

**Base syntax:** Integer32

**Composed syntax:** Integer32

**Status:** current

**Max access:** read-only

**Description:** First import/export element address of the partition.

## Logical Library Tape Drive Element Address

**Name:** logicalLibraryTapeDriveElemAddr

**Type:** OBJECT-TYPE

**OID:** 1.3.6.1.4.1.3764.1.10.10.13.2.1.14

**Full path:**

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).adic(3764).storage(1).library(10).tapeLibraryMIB(10).logicalLibrary(13).logicalLibraryTable(2).logicalLibraryEntry(1).logicalLibraryTapeDriveElemAddr(14)

**Module:** ADIC-TAPE-LIBRARY-MIB

**Parent:** logicalLibraryEntry

**Prev sibling:** logicalLibraryIEElemAddr

**Next sibling:** logicalLibraryChangerDeviceAddr

**Numerical syntax:** Integer (32 bit)

**Base syntax:** Integer32

**Composed syntax:** Integer32

**Status:** current

**Max access:** read-only

**Description:** First data transfer element address of the partition.

## Logical Library Changer Device Address

**Name:** logicalLibraryChangerDeviceAddr

**Type:** OBJECT-TYPE

**OID:** 1.3.6.1.4.1.3764.1.10.10.13.2.1.15

**Full path:**

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).adic(3764).storage(1).library(10).tapeLibraryMIB(10).logicalLibrary(13).logicalLibraryTable(2).logicalLibraryEntry(1).logicalLibraryChangerDeviceAddr(15)

**Module:** ADIC-TAPE-LIBRARY-MIB

**Parent:** logicalLibraryEntry

**Prev sibling:** logicalLibraryTapeDriveElemAddr

**Numerical syntax:** Integer (32 bit)

**Base syntax:** Integer32

**Composed syntax :**Integer32

**Status:** current

**Max access:** read-only

**Description:** First medium transport element address of the partition.

## Fibre Channel I/O Blade Interfaces

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### Blade Table

**Blade Index**

**Name:** bladeIndex

**Type:** OBJECT-TYPE

**OID:** 1.3.6.1.4.1.3764.1.10.10.16.1.1.1

**Full path:**

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).adic(3764).storage(1).library(10).tapeLibraryMIB(10).bladeInterfaces(16).bladeTable(1).bladeEntry(1).bladeIndex(1)

**Module:** ADIC-TAPE-LIBRARY-MIB

**Parent:** bladeEntry

**Next sibling:** bladeLocation

**Numerical syntax:** Integer (32 bit)

**Base syntax:** INTEGER

**Composed syntax:** INTEGER

**Status:** mandatory

**Max access:** read-only

**Description:** Blade index.

## Blade Location

**Name:** bladeLocation

**Type:** OBJECT-TYPE

**OID:** 1.3.6.1.4.1.3764.1.10.10.16.1.1.2

**Full path:**

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).adic(3764).storage(1).library(10).tapeLibraryMIB(10).bladeInterfaces(16).bladeTable(1).bladeEntry(1).bladeLocation(2)

**Module:** ADIC-TAPE-LIBRARY-MIB

**Parent:** bladeEntry

**Prev sibling:** bladeIndex

**Next sibling:** bladeIP

**Numerical syntax:** Octets

**Base syntax:** OCTET STRING

**Composed syntax:** DisplayString

**Status:** mandatory

**Max access:** read-only

**Description:** Blade location.

## Blade IP

**Name:** bladeIP

**Type:** OBJECT-TYPE

**OID:** 1.3.6.1.4.1.3764.1.10.10.16.1.1.3

**Full path:**

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).adic(3764).storage(1).library(10).tapeLibraryMIB(10).bladeInterfaces(16).bladeTable(1).bladeEntry(1).bladeIP(3)

**Module:** ADIC-TAPE-LIBRARY-MIB

**Parent:** bladeEntry

**Prev sibling:** bladeLocation  
**Next sibling:** bladeWWNodeName  
**Numerical syntax:** Octets  
**Base syntax:** OCTET STRING  
**Composed syntax:** DisplayString  
**Status:** mandatory  
**Max access:** read-only  
**Description:** Blade IP address.

## Blade World Wide Node Name

**Name:** bladeWWNodeName  
**Type:** OBJECT-TYPE  
**OID:** 1.3.6.1.4.1.3764.1.10.10.16.1.1.4  
**Full path:**  
iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).adic(3764).storage(1).library(10).tapeLibraryMIB(10).bladeInterfaces(16).bladeTable(1).bladeEntry(1).bladeWWNodeName(4)  
**Module:** ADIC-TAPE-LIBRARY-MIB  
**Parent:** bladeEntry  
**Prev sibling:** bladeIP  
**Next sibling:** bladeHealthCheckValue  
**Numerical syntax:** Octets  
**Base syntax:** OCTET STRING  
**Composed syntax:** OCTET STRING  
**Status:** mandatory  
**Max access:** read-only  
**Description:** Blade World Wide Node Name.

## Blade Health Check Value

**Name:** bladeHealthCheckValue  
**Type:** OBJECT-TYPE  
**OID:** 1.3.6.1.4.1.3764.1.10.10.16.1.1.5  
**Full path:**  
iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).adic(3764).storage(1).library(10).tapeLibraryMIB(10).bladeInterfaces(16).bladeTable(1).bladeEntry(1).bladeHealthCheckValue(5)  
**Module:** ADIC-TAPE-LIBRARY-MIB  
**Parent:** bladeEntry  
**Prev sibling:** bladeWWNodeName  
**Next sibling:** bladeHealthCheckLevel  
**Numerical syntax:** Gauge (32 bit)  
**Base syntax:** Gauge

**Composed syntax:** Gauge

**Status:** mandatory

**Max access:** read-only

**Description:** Value in percent of health check tests passed.

## Blade Health Check Level

**Name:** bladeHealthCheckLevel

**Type:** OBJECT-TYPE

**OID:** 1.3.6.1.4.1.3764.1.10.10.16.1.1.6

**Full path:**

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).adic(3764).storage(1).library(10).tapeLibraryMIB(10).bladeInterfaces(16).bladeTable(1).bladeEntry(1).bladeHealthCheckLevel(6)

**Module:** ADIC-TAPE-LIBRARY-MIB

**Parent:** bladeEntry

**Prev sibling:** bladeHealthCheckValue

**Next sibling:** bladeHealthCheckInterval

**Numerical syntax:** Gauge (32 bit)

**Base syntax:** Gauge

**Composed syntax:** Gauge

**Status:** mandatory

**Max access:** read-only

**Value list:**

1: none(0)

2: system(1)

3: interface(2)

4: simpleDevice(3)

5: deviceReady(4)

**Description:** Scrutiny level of health check function.

## Blade Health Check Interval

**Name:** bladeHealthCheckInterval

**Type:** OBJECT-TYPE

**OID:** 1.3.6.1.4.1.3764.1.10.10.16.1.1.7

**Full path:**

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).adic(3764).storage(1).library(10).tapeLibraryMIB(10).bladeInterfaces(16).bladeTable(1).bladeEntry(1).bladeHealthCheckInterval(7)

**Module:** ADIC-TAPE-LIBRARY-MIB

**Parent:** bladeEntry

**Prev sibling:** bladeHealthCheckLevel

**Next sibling:** bladeFWRev

**Numerical syntax:** Gauge (32 bit)

**Base syntax:** Gauge

**Composed syntax:** Gauge

**Status:** mandatory

**Max access:** read-only

**Description:** Health check interval in minutes.

## **Blade Firmware Revision**

**Name:** bladeFWRev

**Type:** OBJECT-TYPE

**OID:** 1.3.6.1.4.1.3764.1.10.10.16.1.1.8

**Full path:**

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).adic(3764).storage(1).library(10).tapeLibraryMIB(10).bladeInterfaces(16).bladeTable(1).bladeEntry(1).bladeFWRev(8)

**Module:** ADIC-TAPE-LIBRARY-MIB

**Parent:** bladeEntry

**Prev sibling:** bladeHealthCheckInterval

**Next sibling:** bladeSerialNumber

**Numerical syntax:** Octets

**Base syntax:** OCTET STRING

**Composed syntax:** DisplayString

**Status:** mandatory

**Max access:** read-only

**Size list:** 1: 0..64

**Description:** Blade firmware revision information.

## **Blade Serial Number**

**Name:** bladeSerialNumber

**Type:** OBJECT-TYPE

**OID:** 1.3.6.1.4.1.3764.1.10.10.16.1.1.9

**Full path:**

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).adic(3764).storage(1).library(10).tapeLibraryMIB(10).bladeInterfaces(16).bladeTable(1).bladeEntry(1).bladeSerialNumber(9)

**Module:** ADIC-TAPE-LIBRARY-MIB

**Parent:** bladeEntry

**Prev sibling:** bladeFWRev

**Next sibling:** bladeEVPSEnabled

**Numerical syntax:** Octets

**Base syntax:** OCTET STRING

**Composed syntax:** DisplayString

**Status:** mandatory

**Max access:** read-only

**Size list:** 1: 0..64

**Description:** Blade serial number.

## Blade EVPS Enabled

**Name:** bladeEVPSEnabled

**Type:** OBJECT-TYPE

**OID:** 1.3.6.1.4.1.3764.1.10.10.16.1.1.10

**Full path:**

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).adic(3764).storage(1).library(10).tapeLibraryMIB(10).bladeInterfaces(16).bladeTable(1).bladeEntry(1).bladeEVPSEnabled(10)

**Module:** ADIC-TAPE-LIBRARY-MIB

**Parent:** bladeEntry

**Prev sibling:** bladeSerialNumber

**Next sibling:** bladeMaxHostLun

**Numerical syntax:** Integer (32 bit)

**Base syntax:** INTEGER

**Composed syntax:** INTEGER

**Status:** mandatory

**Max access:** read-only

**Description:**

Bit 0: EVPS active if 1, inactive if 0.

Bit 1: EVPS licensed if 1, unlicensed if 0.

## Blade Maximum Host Lun

**Name:** bladeMaxHostLun

**Type:** OBJECT-TYPE

**OID:** 1.3.6.1.4.1.3764.1.10.10.16.1.1.11

**Full path:**

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).adic(3764).storage(1).library(10).tapeLibraryMIB(10).bladeInterfaces(16).bladeTable(1).bladeEntry(1).bladeMaxHostLun(11)

**Module:** ADIC-TAPE-LIBRARY-MIB

**Parent:** bladeEntry

**Prev sibling:** bladeEVPSEnabled

**Next sibling:** bladeState

**Numerical syntax:** Integer (32 bit)

**Base syntax:** INTEGER

**Composed syntax:** INTEGER

**Status:** mandatory

**Max access:** read-only

**Description:** The number of devices one host can see.

## Blade State

**Name:** bladeState

**Type:** OBJECT-TYPE

**OID:** 1.3.6.1.4.1.3764.1.10.10.16.1.1.12

**Full path:**

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).adic(3764).storage(1).library(10).tapeLibraryMIB(10).bladeInterfaces(16).bladeTable(1).bladeEntry(1).bladeState(12)

**Module:** ADIC-TAPE-LIBRARY-MIB

**Parent:** bladeEntry

**Prev sibling:** bladeMaxHostLun

**Next sibling:** blHPFLinkDownThreshold

**Numerical syntax:** Integer (32 bit)

**Base syntax:** INTEGER

**Composed syntax:** BladeState

**Status:** mandatory

**Max access:** read-only

**Description:** Blade state.

## Blade Host Port Failover Link Down Threshold

**Name:** blHPFLinkDownThreshold

**Type:** OBJECT-TYPE

**OID:** 1.3.6.1.4.1.3764.1.10.10.16.1.1.13

**Full path:**

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).adic(3764).storage(1).library(10).tapeLibraryMIB(10).bladeInterfaces(16).bladeTable(1).bladeEntry(1).blHPFLinkDownThreshold(13)

**Module:** ADIC-TAPE-LIBRARY-MIB

**Parent:** bladeEntry

**Prev sibling:** bladeState

**Next sibling:** blHPFErrorRecoveryMode

**Numerical syntax:** Integer (32 bit)

**Base syntax:** INTEGER

**Composed syntax:** INTEGER

**Status:** mandatory

**Max access:** read-only

**Description:** Used to set the Link Down threshold delay period in seconds. The failover is triggered when the delay period ends.



## Blade Host Port Failover Error Recovery Mode

**Name:** blHPFErrorRecoveryMode

**Type:** OBJECT-TYPE

**OID:** 1.3.6.1.4.1.3764.1.10.10.16.1.1.14

**Full path:**

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).adic(3764).storage(1).library(10).tapeLibraryMIB(10).bladeInterfaces(16).bladeTable(1).bladeEntry(1).blHPFErrorRecoveryMode(14)

**Module:** ADIC-TAPE-LIBRARY-MIB

**Parent:** bladeEntry

**Prev sibling:** blHPFLinkDownThreshold

**Next sibling:** blHPFLinkDownRecoveryMode

**Numerical syntax:** Integer (32 bit)

**Base syntax:** INTEGER

**Composed syntax:** FcHPFRecoveryType

**Status:** mandatory

**Max access:** read-only

**Description:** Used to set the global recovery mode for failures that happen due to FC cable errors. Values: returnToActive(0), returnToStandby(1), requiresIntervention(2).

## Blade Host Port Failover Link Down Recovery Mode

**Name:** blHPFLinkDownRecoveryMode

**Type:** OBJECT-TYPE

**OID:** 1.3.6.1.4.1.3764.1.10.10.16.1.1.15

**Full path:**

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).adic(3764).storage(1).library(10).tapeLibraryMIB(10).bladeInterfaces(16).bladeTable(1).bladeEntry(1).blHPFLinkDownRecoveryMode(15)

**Module:** ADIC-TAPE-LIBRARY-MIB

**Parent:** bladeEntry

**Prev sibling:** blHPFErrorRecoveryMode

**Numerical syntax:** Integer (32 bit)

**Base syntax:** INTEGER

**Composed syntax:** FcHPFRecoveryType

**Status:** mandatory

**Max access:** read-only

**Description:** Used to set the global recovery mode for failures that happen due to Link Down errors. Values: returnToActive(0), returnToStandby(1), requiresIntervention(2).

# Blade Dev Entry

## Blade Device Index

**Name:** blDevIndex

**Type:** OBJECT-TYPE

**OID:** 1.3.6.1.4.1.3764.1.10.10.16.2.1.1

**Full path:**

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).adic(3764).storage(1).library(10).tapeLibraryMIB(10).bladeInterfaces(16).blDevTable(2).blDevEntry(1).blDevIndex(1)

**Module:** ADIC-TAPE-LIBRARY-MIB

**Parent:** blDevEntry

**Next sibling:** blDevUID

**Numerical syntax:** Integer (32 bit)

**Base syntax:** INTEGER

**Composed syntax:** INTEGER

**Status:** mandatory

**Max access:** read-only

**Description:** MIB table index.

## Blade Device Universal Identifier

**Name:** blDevUID

**Type:** OBJECT-TYPE

**OID:** 1.3.6.1.4.1.3764.1.10.10.16.2.1.2

**Full path:**

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).adic(3764).storage(1).library(10).tapeLibraryMIB(10).bladeInterfaces(16).blDevTable(2).blDevEntry(1).blDevUID(2)

**Module:** ADIC-TAPE-LIBRARY-MIB

**Parent:** blDevEntry

**Prev sibling:** blDevIndex

**Next sibling:** blDevType

**Numerical syntax:** Octets

**Base syntax:** OCTET STRING

**Composed syntax:** DisplayString

**Status:** mandatory

**Max access:** read-only

**Size list:** 1: 16

**Description:** Universal identifier of the blade.

## Blade Device Type

**Name:** blDevType

**Type:** OBJECT-TYPE

**OID:** 1.3.6.1.4.1.3764.1.10.10.16.2.1.3

**Full path:**

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).adic(3764).storage(1).library(10).tapeLibraryMIB(10).bladeInterfaces(16).blDevTable(2).blDevEntry(1).blDevType(3)

**Module:** ADIC-TAPE-LIBRARY-MIB

**Parent:** blDevEntry

**Prev sibling:** blDevUID

**Next sibling:** blDevVendor

**Numerical syntax:** Integer (32 bit)

**Base syntax:** INTEGER

**Composed syntax:** DeviceType

**Status:** mandatory

**Max access:** read-only

**Description:** Device type.

## Blade Device Vendor

**Name:** blDevVendor

**Type:** OBJECT-TYPE

**OID:** 1.3.6.1.4.1.3764.1.10.10.16.2.1.4

**Full path:**

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).adic(3764).storage(1).library(10).tapeLibraryMIB(10).bladeInterfaces(16).blDevTable(2).blDevEntry(1).blDevVendor(4)

**Module:** ADIC-TAPE-LIBRARY-MIB

**Parent:** blDevEntry

**Prev sibling:** blDevType

**Next sibling:** blDevProduct

**Numerical syntax:** Octets

**Base syntax:** OCTET STRING

**Composed syntax:** DisplayString

**Status:** mandatory

**Max access:** read-only

**Size list:** 1: 8

**Description:** Device vendor.

## Blade Device Product

**Name:** blDevProduct

**Type:** OBJECT-TYPE

**OID:** 1.3.6.1.4.1.3764.1.10.10.16.2.1.5

**Full path:**

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).adic(3764).storage(1).library(10).tapeLibraryMIB(10).bladeInterfaces(16).blDevTable(2).blDevEntry(1).blDevProduct(5)

**Module:** ADIC-TAPE-LIBRARY-MIB

**Parent:** blDevEntry

**Prev sibling:** blDevVendor

**Next sibling:** blDevSerial

**Numerical syntax:** Octets

**Base syntax:** OCTET STRING

**Composed syntax:** DisplayString

**Status:** mandatory

**Max access:** read-only

**Size list:** 1: 16

**Description:** Device product identifier.

## Blade Device Serial

**Name:** blDevSerial

**Type:** OBJECT-TYPE

**OID:** 1.3.6.1.4.1.3764.1.10.10.16.2.1.6

**Full path:**

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).adic(3764).storage(1).library(10).tapeLibraryMIB(10).bladeInterfaces(16).blDevTable(2).blDevEntry(1).blDevSerial(6)

**Module:** ADIC-TAPE-LIBRARY-MIB

**Parent:** blDevEntry

**Prev sibling:** blDevProduct

**Next sibling:** blDevInterfaceType

**Numerical syntax:** Octets

**Base syntax:** OCTET STRING

**Composed syntax:** DisplayString

**Status:** mandatory

**Max access:** read-only

**Size list:** 1: 0..32

**Description:** Device serial number.

## Blade Device Interface Type

**Name:** blDevInterfaceType

**Type:** OBJECT-TYPE

**OID:** 1.3.6.1.4.1.3764.1.10.10.16.2.1.7

**Full path:**

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).adic(3764).storage(1).library(10).tapeLibraryMIB(10).bladeInterfaces(16).blDevTable(2).blDevEntry(1).blDevInterfaceType(7)

**Module:** ADIC-TAPE-LIBRARY-MIB

**Parent:** blDevEntry

**Prev sibling:** blDevSerial

**Next sibling:** blDevLun

**Numerical syntax:** Integer (32 bit)

**Base syntax:** INTEGER

**Composed syntax:** InterfaceType

**Status:** mandatory

**Max access:** read-only

**Description:** This device's type of communication interface.

## Blade Device LUN

**Name:** blDevLun

**Type:** OBJECT-TYPE

**OID:** 1.3.6.1.4.1.3764.1.10.10.16.2.1.8

**Full path:**

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).adic(3764).storage(1).library(10).tapeLibraryMIB(10).bladeInterfaces(16).blDevTable(2).blDevEntry(1).blDevLun(8)

**Module:** ADIC-TAPE-LIBRARY-MIB

**Parent:** blDevEntry

**Prev sibling:** blDevInterfaceType

**Next sibling:** blDevCtrlIndex

**Numerical syntax:** Integer (32 bit)

**Base syntax:** INTEGER

**Composed syntax:** INTEGER

**Status:** mandatory

**Max access:** read-only

**Description:** SCSI logical unit number of the device.

## Blade Device Controller Index

**Name:** blDevCtrlIndex

**Type:** OBJECT-TYPE

**OID:** 1.3.6.1.4.1.3764.1.10.10.16.2.1.9

**Full path:**

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).adic(3764).storage(1).library(10).tapeLibraryMIB(10).bladeInterfaces(16).blDevTable(2).blDevEntry(1).blDevCtrlIndex(9)

**Module:** ADIC-TAPE-LIBRARY-MIB

**Parent:** blDevEntry

**Prev sibling:** blDevLun

**Next sibling:** blDevFWRev

**Numerical syntax:** Integer (32 bit)

**Base syntax:** INTEGER

**Composed syntax:** INTEGER

**Status:** mandatory

**Max access:** read-only

**Description:** Index of this device's controller in the controller's MIB table and type-specific controller tables.

## Blade Device Firmware Revision

**Name:** blDevFWRev

**Type:** OBJECT-TYPE

**OID:** 1.3.6.1.4.1.3764.1.10.10.16.2.1.10

**Full path:**

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).adic(3764).storage(1).library(10).tapeLibraryMIB(10).bladeInterfaces(16).blDevTable(2).blDevEntry(1).blDevFWRev(10)

**Module:** ADIC-TAPE-LIBRARY-MIB

**Parent:** blDevEntry

**Prev sibling:** blDevCtrlrIndex

**Next sibling:** blDevTargetLun

**Numerical syntax:** Octets

**Base syntax:** OCTET STRING

**Composed syntax:** DisplayString

**Status:** mandatory

**Max access:** read-only

**Size list:** 1: 0..32

**Description:** Device firmware revision number/identifier.

## Blade Device Target LUN

**Name:** blDevTargetLun

**Type:** OBJECT-TYPE

**OID:** 1.3.6.1.4.1.3764.1.10.10.16.2.1.11

**Full path:**

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).adic(3764).storage(1).library(10).tapeLibraryMIB(10).bladeInterfaces(16).blDevTable(2).blDevEntry(1).blDevTargetLun(11)

**Module:** ADIC-TAPE-LIBRARY-MIB

**Parent:** blDevEntry

**Prev sibling:** blDevFWRev

**Numerical syntax:** Integer (32 bit)

**Base syntax:** INTEGER

**Composed syntax:** INTEGER

**Status:** mandatory

**Max access:** read-only

**Description:** This target device's logical unit number as seen from attached host.

## Blade Controller Table

### Blade Controller Index

**Name:** blCtrlIndex

**Type:** OBJECT-TYPE

**OID:** 1.3.6.1.4.1.3764.1.10.10.16.3.1.1

**Full path:**

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).adic(3764).storage(1).library(10).tapeLibraryMIB(10).bladeInterfaces(16).blCtrlTable(3).blCtrlEntry(1).blCtrlIndex(1)

**Module:** ADIC-TAPE-LIBRARY-MIB

**Parent:** blCtrlEntry

**Next sibling:** blCtrlType

**Numerical syntax:** Integer (32 bit)

**Base syntax:** INTEGER

**Composed syntax:** INTEGER

**Status:** mandatory

**Max access:** read-only

**Description:** MIB table index.

### Blade Controller Type

**Name:** blCtrlType

**Type:** OBJECT-TYPE

**OID:** 1.3.6.1.4.1.3764.1.10.10.16.3.1.2

**Full path:**

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).adic(3764).storage(1).library(10).tapeLibraryMIB(10).bladeInterfaces(16).blCtrlTable(3).blCtrlEntry(1).blCtrlType(2)

**Module:** ADIC-TAPE-LIBRARY-MIB

**Parent:** blCtrlEntry

**Prev sibling:** blCtrlIndex

**Next sibling:** blCtrlChannelMask

**Numerical syntax:** Integer (32 bit)

**Base syntax:** INTEGER

**Composed syntax:** InterfaceType

**Status:** mandatory

**Max access:** read-only

**Description:** Communication interface type.

## Blade Controller Channel Mask

**Name:** blCtrlChannelMask

**Type:** OBJECT-TYPE

**OID:** 1.3.6.1.4.1.3764.1.10.10.16.3.1.3

**Full path:**

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).adic(3764).storage(1).library(10).tapeLibraryMIB(10).bladeInterfaces(16).blCtrlTable(3).blCtrlEntry(1).blCtrlChannelMask(3)

**Module:** ADIC-TAPE-LIBRARY-MIB

**Parent:** blCtrlEntry

**Prev sibling:** blCtrlType

**Numerical syntax:** Gauge (32 bit)

**Base syntax:** Gauge

**Composed syntax:** Gauge

**Status:** mandatory

**Max access:** read-write

**Description:** Specifies access permissions for this initiator in bits 0 through 18, as follows:

\*\*\*\*\*

-\* SCSI Channels \*-

Bit 0 => Is access DISALLOWED to SCSI channel 1 ?

Bit 1 => Is access DISALLOWED to SCSI channel 2 ?

Bit 2 => Is access DISALLOWED to SCSI channel 3 ?

Bit 3 => Is access DISALLOWED to SCSI channel 4 ?

-\* Ultra SCSI Channels \*-

Bit 4 => Is access DISALLOWED to Ultra SCSI channel 1 ?

Bit 5 => Is access DISALLOWED to Ultra SCSI channel 2 ?

Bit 6 => Is access DISALLOWED to Ultra SCSI channel 3 ?

Bit 7 => Is access DISALLOWED to Ultra SCSI channel 4 ?

Bit 8 => Is access DISALLOWED to Ultra SCSI channel 5 ?

Bit 9 => Is access DISALLOWED to Ultra SCSI channel 6 ?

-\* Fibre Channel \*-

Bit 10 => Is access DISALLOWED to Fibre Channel 1 ?

Bit 11 => Is access DISALLOWED to Fibre Channel 2 ?

Bit 12 => Is access DISALLOWED to Fibre Channel 3 ?

Bit 13 => Is access DISALLOWED to Fibre Channel 4 ?

Bit 14 => Is access DISALLOWED to Fibre Channel 5 ?

Bit 15 => Is access DISALLOWED to Fibre Channel 6 ?

-\* SSA Channels \*-

Bit 16 => Is access DISALLOWED to SSA channel 1 ?



Bit 17 => Is access DISALLOWED to SSA Channel 2 ?

Bit 18 => Is access DISALLOWED to SSA Channel 3 ?

=====

## Blade Fibre Channel Controller Entry

### Blade Fibre Channel Controller Status

**Name:** blFcCtrlStatus

**Type:** OBJECT-TYPE

**OID:** 1.3.6.1.4.1.3764.1.10.10.16.4.1.1

**Full path:**

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).adic(3764).storage(1).library(10).tapeLibraryMIB(10).bladeInterfaces(16).blFcCtrlTable(4).blFcCtrlEntry(1).blFcCtrlStatus(1)

**Module:** ADIC-TAPE-LIBRARY-MIB

**Parent:** blFcCtrlEntry

**Next sibling:** blFcCtrlMaxSpeed

**Numerical syntax:** Integer (32 bit)

**Base syntax:** INTEGER

**Composed syntax:** FcStatus

**Status:** mandatory

**Max access:** read-only

**Description:** Status of the Fibre Channel blade ports.

### Blade Fibre Channel Controller Maximum Speed

**Name:** blFcCtrlMaxSpeed

**Type:** OBJECT-TYPE

**OID:** 1.3.6.1.4.1.3764.1.10.10.16.4.1.2

**Full path:**

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).adic(3764).storage(1).library(10).tapeLibraryMIB(10).bladeInterfaces(16).blFcCtrlTable(4).blFcCtrlEntry(1).blFcCtrlMaxSpeed(2)

**Module:** ADIC-TAPE-LIBRARY-MIB

**Parent:** blFcCtrlEntry

**Prev sibling:** blFcCtrlStatus

**Next sibling:** blFcCtrlWWPPortName

**Numerical syntax:** Gauge (32 bit)

**Base syntax:** Gauge

**Composed syntax:** Gauge

**Status:** mandatory

**Max access:** read-only

**Description:** Maximum transfer speed in MBytes per second.

## Blade Fibre Channel Controller World Wide Port Name

**Name:** blFcCtrlWWPortName

**Type:** OBJECT-TYPE

**OID:** 1.3.6.1.4.1.3764.1.10.10.16.4.1.3

**Full path:**

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).adic(3764).storage(1).library(10).tapeLibraryMIB(10).bladeInterfaces(16).blFcCtrlTable(4).blFcCtrlEntry(1).blFcCtrlWWPortName(3)

**Module:** ADIC-TAPE-LIBRARY-MIB

**Parent:** blFcCtrlEntry

**Prev sibling:** blFcCtrlMaxSpeed

**Next sibling:** blFcCtrlLoopID

**Numerical syntax:** Octets

**Base syntax:** OCTET STRING

**Composed syntax:** DisplayString

**Status:** mandatory

**Max access:** read-only

**Size list:** 1: 17

**Description:** World Wide Name of the blade's ports.

## Blade Fibre Channel Controller Loop ID

**Name:** blFcCtrlLoopID

**Type:** OBJECT-TYPE

**OID:** 1.3.6.1.4.1.3764.1.10.10.16.4.1.4

**Full path:**

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).adic(3764).storage(1).library(10).tapeLibraryMIB(10).bladeInterfaces(16).blFcCtrlTable(4).blFcCtrlEntry(1).blFcCtrlLoopID(4)

**Module:** ADIC-TAPE-LIBRARY-MIB

**Parent:** blFcCtrlEntry

**Prev sibling:** blFcCtrlWWPortName

**Next sibling:** blFcCtrlLoopIDMode

**Numerical syntax:** Integer (32 bit)

**Base syntax:** INTEGER

**Composed syntax:** INTEGER

**Status:** mandatory

**Max access:** read-only

**Size list:** 1: -1..127

**Description:** Fibre Channel Loop ID.

## Blade Fibre Channel Controller Loop ID Mode

**Name:** blFcCtrlLoopIDMode

**Type:** OBJECT-TYPE

**OID:** 1.3.6.1.4.1.3764.1.10.10.16.4.1.5

**Full path:**

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).adic(3764).storage(1).library(10).tapeLibraryMIB(10).bladeInterfaces(16).blFcCtrlTable(4).blFcCtrlEntry(1).blFcCtrlLoopIDMode(5)

**Module:** ADIC-TAPE-LIBRARY-MIB

**Parent:** blFcCtrlEntry

**Prev sibling:** blFcCtrlLoopID

**Next sibling:** blFcCtrlPortMode

**Numerical syntax:** Integer (32 bit)

**Base syntax:** INTEGER

**Composed syntax:** FCPortLoopIDMode

**Status:** mandatory

**Max access:** read-only

**Description:** Fibre Channel Loop ID mode (soft or hard).

## Blade Fibre Channel Controller Port Mode

**Name:** blFcCtrlPortMode

**Type:** OBJECT-TYPE

**OID:** 1.3.6.1.4.1.3764.1.10.10.16.4.1.6

**Full path:**

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).adic(3764).storage(1).library(10).tapeLibraryMIB(10).bladeInterfaces(16).blFcCtrlTable(4).blFcCtrlEntry(1).blFcCtrlPortMode(6)

**Module:** ADIC-TAPE-LIBRARY-MIB

**Parent:** blFcCtrlEntry

**Prev sibling:** blFcCtrlLoopIDMode

**Next sibling:** blFcCtrlConnectionOptions

**Numerical syntax:** Integer (32 bit)

**Base syntax:** INTEGER

**Composed syntax:** FibrePortMode

**Status:** mandatory

**Max access:** read-only

**Description:** Fibre Channel port mode.

## Blade Fibre Channel Controller Connection Options

**Name:** blFcCtrlConnectionOptions

**Type:** OBJECT-TYPE

**OID:** 1.3.6.1.4.1.3764.1.10.10.16.4.1.7

**Full path:**

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).adic(3764).storage(1).library(10).tapeLibraryMIB(10).bladeInterfaces(16).blFccCtrlTable(4).blFccCtrlEntry(1).blFccCtrlConnectionOptions(7)

**Module:** ADIC-TAPE-LIBRARY-MIB

**Parent:** blFccCtrlEntry

**Prev sibling:** blFccCtrlPortMode

**Numerical syntax:** Integer (32 bit)

**Base syntax:** INTEGER

**Composed syntax:** FibreConnOptions

**Status:** mandatory

**Max access:** read-only

**Description:** Connection options for ISP2200 FC chip. Values 4 – 8 are reserved.

## Blade Host Table

### Blade Host Index

**Name:** blHostIndex

**Type:** OBJECT-TYPE

**OID:** 1.3.6.1.4.1.3764.1.10.10.16.5.1.1

**Full path:**

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).adic(3764).storage(1).library(10).tapeLibraryMIB(10).bladeInterfaces(16).blHostTable(5).blHostEntry(1).blHostIndex(1)

**Module:** ADIC-TAPE-LIBRARY-MIB

**Parent:** blHostEntry

**Next sibling:** blHostWWName

**Numerical syntax:** Integer (32 bit)

**Base syntax:** INTEGER

**Composed syntax:** INTEGER

**Status:** mandatory

**Max access:** read-only

**Description:** Index into Host Initiator table.

### Blade Host World Wide Name

**Name:** blHostWWName

**Type:** OBJECT-TYPE

**OID:** 1.3.6.1.4.1.3764.1.10.10.16.5.1.2

**Full path:**

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).adic(3764).storage(1).library(10).tapeLibraryMIB(10).bladeInterfaces(16).blHostTable(5).blHostEntry(1).blHostWWName(2)

**Module:** ADIC-TAPE-LIBRARY-MIB

**Parent:** blHostEntry

**Prev sibling:** blHostIndex

**Next sibling:** blHostName

**Numerical syntax:** Octets

**Base syntax:** OCTET STRING

**Composed syntax:** DisplayString

**Status:** mandatory

**Max access:** read-write

**Size list:** 1: 0..32

**Description:** World Wide Name of this initiator.

## Blade Host Name

**Name:** blHostName

**Type:** OBJECT-TYPE

**OID:** 1.3.6.1.4.1.3764.1.10.10.16.5.1.3

**Full path:**

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).adic(3764).storage(1).library(10).tapeLibraryMIB(10).bladeInterfaces(16).blHostTable(5).blHostEntry(1).blHostName(3)

**Module:** ADIC-TAPE-LIBRARY-MIB

**Parent:** blHostEntry

**Prev sibling:** blHostWWName

**Next sibling:** blHostType

**Numerical syntax:** Octets

**Base syntax:** OCTET STRING

**Composed syntax:** DisplayString

**Status:** mandatory

**Max access:** read-only

**Size list:** 1: 0..32

**Description:** Name for this initiator.

## Blade Host Type

**Name:** blHostType

**Type:** OBJECT-TYPE

**OID:** 1.3.6.1.4.1.3764.1.10.10.16.5.1.4

**Full path:**

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).adic(3764).storage(1).library(10).tapeLibraryMIB(10).bladeInterfaces(16).blHostTable(5).blHostEntry(1).blHostType(4)

**Module:** ADIC-TAPE-LIBRARY-MIB

**Parent:** blHostEntry

**Prev sibling:** blHostName

**Next sibling:** blHostPortID

**Numerical syntax:** Octets

**Base syntax:** OCTET STRING

**Composed syntax:** DisplayString

**Status:** mandatory

**Max access:** read-only

**Size list:** 1: 0..32

**Description:** The type of host that is connected to the blade.

## Blade Host Port ID

**Name:** blHostPortID

**Type:** OBJECT-TYPE

**OID:** 1.3.6.1.4.1.3764.1.10.10.16.5.1.5

**Full path:**

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).adic(3764).storage(1).library(10).tapeLibraryMIB(10).bladeInterfaces(16).blHostTable(5).blHostEntry(1).blHostPortID(5)

**Module:** ADIC-TAPE-LIBRARY-MIB

**Parent:** blHostEntry

**Prev sibling:** blHostType

**Next sibling:** blHostITLData

**Numerical syntax:** Octets

**Base syntax:** OCTET STRING

**Composed syntax:** DisplayString

**Status:** mandatory

**Max access:** read-only

**Size list:** 1: 0..32

**Description:** The ID of the port that is connected to the host.

## Blade Host ITL Data

**Name:** blHostITLData

**Type:** OBJECT-TYPE

**OID:** 1.3.6.1.4.1.3764.1.10.10.16.5.1.6

**Full path:**

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).adic(3764).storage(1).library(10).tapeLibraryMIB(10).bladeInterfaces(16).blHostTable(5).blHostEntry(1).blHostITLData(6)

**Module:** ADIC-TAPE-LIBRARY-MIB

**Parent:** blHostEntry

**Prev sibling:** blHostPortID

**Next sibling:** blHostLunMap

**Numerical syntax:** Octets

**Base syntax:** OCTET STRING

**Composed syntax:** OCTET STRING

**Status:** mandatory

**Max access:** read-only

**Size list:** 1: 256

**Description:** Initiator-target-logical unit nexus (ITL) access control data for this host. There are 256 possible LUNs with 1 byte of data per LUN.

## Blade Host LUN Map

**Name:** blHostLunMap

**Type:** OBJECT-TYPE

**OID:** 1.3.6.1.4.1.3764.1.10.10.16.5.1.7

**Full path:**

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).adic(3764).storage(1).library(10).tapeLibraryMIB(10).bladeInterfaces(16).blHostTable(5).blHostEntry(1).blHostLunMap(7)

**Module:** ADIC-TAPE-LIBRARY-MIB

**Parent:** blHostEntry

Prev **sibling:** blHostITLData

**Numerical syntax:** Octets

**Base syntax:** OCTET STRING

**Composed syntax:** OCTET STRING

**Status:** mandatory

**Max access:** read-only

**Size list:** 1: 512

**Description:** EVPS Map data. There are 256 possible LUNs with 2 bytes of data for each LUN.

## Blade Host Port Failover Map Entry

### Blade Host Port Failover Map Virtual Port

**Name:** blHPFMapVirtualPort

**Type:** OBJECT-TYPE

**OID:** 1.3.6.1.4.1.3764.1.10.10.16.6.1.1

**Full path:**

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).adic(3764).storage(1).library(10).tapeLibraryMIB(10).bladeInterfaces(16).blHPFMapTable(6).blHPFMapEntry(1).blHPFMapVirtualPort(1)

Module: ADIC-TAPE-LIBRARY-MIB

**Parent:** blHPFMapEntry

**Next sibling:** blHPFMapPrimaryPort

**Numerical syntax:** Integer (32 bit)

**Base syntax:** INTEGER

**Composed syntax:** INTEGER

**Status:** mandatory

**Max access:** read-only

**Description:** The virtual port index. The value is usually the same as the physical port index (see [Blade Host Port Failover Map Primary Port](#)), but will be zero if host port failover is not configured.

## Blade Host Port Failover Map Primary Port

**Name:** blHPFMapPrimaryPort

**Type:** OBJECT-TYPE

**OID:** 1.3.6.1.4.1.3764.1.10.10.16.6.1.2

**Full path:**

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).adic(3764).storage(1).library(10).tapeLibraryMIB(10).bladeInterfaces(16).blHPFMapTable(6).blHPFMapEntry(1).blHPFMapPrimaryPort(2)

**Module:** ADIC-TAPE-LIBRARY-MIB

**Parent:** blHPFMapEntry

**Prev sibling:** blHPFMapVirtualPort

**Next sibling:** blHPFMapStandbyList

**Numerical syntax:** Integer (32 bit)

**Base syntax:** INTEGER

**Composed syntax:** INTEGER

**Status:** mandatory

**Max access:** read-only

**Description:** The physical port index that acts as the default standby.

## Blade Host Port Failover Map Standby List

**Name:** blHPFMapStandbyList

**Type:** OBJECT-TYPE

**OID:** 1.3.6.1.4.1.3764.1.10.10.16.6.1.3

**Full path:**

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).adic(3764).storage(1).library(10).tapeLibraryMIB(10).bladeInterfaces(16).blHPFMapTable(6).blHPFMapEntry(1).blHPFMapStandbyList(3)

**Module:** ADIC-TAPE-LIBRARY-MIB

**Parent:** blHPFMapEntry

**Prev sibling:** blHPFMapPrimaryPort

**Next sibling:** blHPFMapActivePort

**Numerical syntax:** Octets

**Base syntax:** OCTET STRING

**Composed syntax:** OCTET STRING

**Status:** mandatory

**Max access:** read-only

**Size list:** 1: 256



**Description:** The comma-separated list of ports that are configured as standbys for the virtual port (excluding the primary port).

## Blade Host Port Failover Map Active Port

**Name:** blHPFMapActivePort

**Type:** OBJECT-TYPE

**OID:** 1.3.6.1.4.1.3764.1.10.10.16.6.1.4

**Full path:**

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).adic(3764).storage(1).library(10).tapeLibraryMIB(10).bladeInterfaces(16).blHPFMapTable(6).blHPFMapEntry(1).blHPFMapActivePort(4)

**Module:** ADIC-TAPE-LIBRARY-MIB

**Parent:** blHPFMapEntry

**Prev sibling:** blHPFMapStandbyList

**Numerical syntax:** Integer (32 bit)

**Base syntax:** INTEGER

**Composed syntax:** INTEGER

**Status:** mandatory

**Max access:** read-only

**Description:** The physical port that is active on this virtual port.

## Blade Host Port Failover Physical Table

### Blade Host Port Failover Physical Port

**Name:** blHPFPhysicalPort

**Type:** OBJECT-TYPE

**OID:** 1.3.6.1.4.1.3764.1.10.10.16.7.1.1

**Full path:**

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).adic(3764).storage(1).library(10).tapeLibraryMIB(10).bladeInterfaces(16).blHPFPhysicalTable(7).blHPFPhysicalEntry(1).blHPFPhysicalPort(1)

**Module:** ADIC-TAPE-LIBRARY-MIB

**Parent:** blHPFPhysicalEntry

**Next sibling:** blHPFPhysicalPortFailureType

**Numerical syntax:** Integer (32 bit)

**Base syntax:** INTEGER

**Composed syntax:** INTEGER

**Status:** mandatory

**Max access:** read-only

**Description:** The physical FC port index.

## Blade Host Port Failover Physical Port Failure Type

**Name:** blHPFPhysicalPortFailureType

**Type:** OBJECT-TYPE

**OID:** 1.3.6.1.4.1.3764.1.10.10.16.7.1.2

**Full path:**

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).adic(3764).storage(1).library(10).tapeLibraryMIB(10).bladeInterfaces(16).blHPFPhysicalTable(7).blHPFPhysicalEntry(1).blHPFPhysicalPortFailureType(2)

**Module:** ADIC-TAPE-LIBRARY-MIB

**Parent:** blHPFPhysicalEntry

**Prev sibling:** blHPFPhysicalPort

**Next sibling:** blHPFPhysicalPortCurrentState

**Numerical syntax:** Integer (32 bit)

**Base syntax:** INTEGER

**Composed syntax:** FcHPFPortFailType

**Status:** mandatory

**Max access:** read-only

**Description:** If this physical port failed, this field provides the type of failure. Values: 0 = None; 1 = Link Down; 2 = Link Error.

## Blade Host Port Failover Physical Port Current State

**Name:** blHPFPhysicalPortCurrentState

**Type:** OBJECT-TYPE

**OID:** 1.3.6.1.4.1.3764.1.10.10.16.7.1.3

**Full path:**

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).adic(3764).storage(1).library(10).tapeLibraryMIB(10).bladeInterfaces(16).blHPFPhysicalTable(7).blHPFPhysicalEntry(1).blHPFPhysicalPortCurrentState(3)

**Module:** ADIC-TAPE-LIBRARY-MIB

**Parent:** blHPFPhysicalEntry

**Prev sibling:** blHPFPhysicalPortFailureType

**Next sibling:** blHPFPhysicalPortIntervention

**Numerical syntax:** Integer (32 bit)

**Base syntax:** INTEGER

**Composed syntax:** FcHPFPortState

**Status:** mandatory

**Max access:** read-only

**Description:** The current state of this physical port. Values: 0 = Online; 1 = Offline.

## Blade Host Port Failover Physical Port Intervention

**Name:** blHPFPhysicalPortIntervention

**Type:** OBJECT-TYPE

**OID:** 1.3.6.1.4.1.3764.1.10.10.16.7.1.4

**Full path:**

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).adic(3764).storage(1).library(10).tapeLibraryMIB(10).bladeInterfaces(16).blHPFPhysicalTable(7).blHPFPhysicalEntry(1).blHPFPhysicalPortIntervention(4)

**Module:** ADIC-TAPE-LIBRARY-MIB

**Parent:** blHPFPhysicalEntry

**Prev sibling:** blHPFPhysicalPortCurrentState

**Numerical syntax:** Integer (32 bit)

**Base syntax:** INTEGER

**Composed syntax:** Boolean

**Status:** mandatory

**Max access:** read-only

**Description:** Does this physical port require intervention? Values: 1 = true; 2 = false.



# 5

## MIB Variables - RAS Subsystem

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You can poll the following variables to obtain information about the RAS subsystem on the library.



NOTE: All variables share the same object ID (OID) prefix of:  
1.3.6.1.4.1.3764.1.10.10

### Power Status

---

**Name:** powerStatus

**Type:** OBJECT-TYPE

**OID:** 1.3.6.1.4.1.3764.1.10.10.12.1

**Full path:**

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).adic(3764).storage(1).library(10).tapeLibraryMIB(10).rasSubSystem(12).powerStatus(1)

**Module:** ADIC-TAPE-LIBRARY-MIB

**Parent:** rasSubSystem

**Next sibling:** coolingStatus

**Numerical syntax:** Integer (32 bit)

**Base syntax:** INTEGER

**Composed syntax:** RASSubSystemStatus

**Status:** current

**Max access:** read-only

**Description:** Indicates overall power supply status.

### Cooling Status

---

**Name:** coolingStatus

**Type:** OBJECT-TYPE

**OID:** 1.3.6.1.4.1.3764.1.10.10.12.2

**Full path:**

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).adic(3764).storage(1).library(10).tapeLibraryMIB(10).rasSubSystem(12).coolingStatus(2)

**Module:** ADIC-TAPE-LIBRARY-MIB

**Parent:** rasSubSystem

**Prev sibling:** powerStatus

**Next sibling:** controlStatus

**Numerical syntax:** Integer (32 bit)

**Base syntax:** INTEGER

**Composed syntax:** RASSubSystemStatus

**Status:** current

**Max access:** read-only

**Description:** Indicates overall cooling fans status.

## Control Status

---

**Name:** controlStatus

**Type:** OBJECT-TYPE

**OID:** 1.3.6.1.4.1.3764.1.10.10.12.3

**Full path:**

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).adic(3764).storage(1).library(10).tapeLibraryMIB(10).rasSubSystem(12).controlStatus(3)

**Module:** ADIC-TAPE-LIBRARY-MIB

**Parent:** rasSubSystem

**Prev sibling:** coolingStatus

**Next sibling:** connectivityStatus

**Numerical syntax:** Integer (32 bit)

**Base syntax:** INTEGER

**Composed syntax:** RASSubSystemStatus

**Status:** current

**Max access:** read-only

**Description:** Indicates overall control subsystem status.

## Connectivity Status

---

**Name:** connectivityStatus

**Type:** OBJECT-TYPE

**OID:** 1.3.6.1.4.1.3764.1.10.10.12.4

**Full path:**

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).adic(3764).storage(1).library(10).tapeLibraryMIB(10).rasSubSystem(12).connectivityStatus(4)

**Module:** ADIC-TAPE-LIBRARY-MIB

**Parent:** rasSubSystem

**Prev sibling:** controlStatus

**Next sibling:** roboticsStatus

**Numerical syntax:** Integer (32 bit)

**Base syntax:** INTEGER

**Composed syntax:** RASSubSystemStatus

**Status:** current

**Max access:** read-only

**Description:** Indicates overall connectivity status.

## Robotics Status

---

**Name:** roboticsStatus

**Type:** OBJECT-TYPE

**OID:** 1.3.6.1.4.1.3764.1.10.10.12.5

**Full path:**

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).adic(3764).storage(1).library(10).tapeLibraryMIB(10).rasSubSystem(12).roboticsStatus(5)

**Module:** ADIC-TAPE-LIBRARY-MIB

**Parent:** rasSubSystem

**Prev sibling:** connectivityStatus

**Next sibling:** mediaStatus

**Numerical syntax:** Integer (32 bit)

**Base syntax:** INTEGER

**Composed syntax:** RASSubSystemStatus

**Status:** current

**Max access:** read-only

**Description:** Indicates overall robotics status.

## Media Status

---

**Name:** mediaStatus

**Type:** OBJECT-TYPE

**OID:** 1.3.6.1.4.1.3764.1.10.10.12.6

**Full path:**

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).adic(3764).storage(1).library(10).tapeLibraryMIB(10).rasSubSystem(12).mediaStatus(6)

**Module:** ADIC-TAPE-LIBRARY-MIB  
**Parent:** rasSubSystem  
**Prev sibling:** roboticsStatus  
**Next sibling:** driveStatus  
**Numerical syntax:** Integer (32 bit)  
**Base syntax:** INTEGER  
**Composed syntax:** RASSubSystemStatus  
**Status:** current  
**Max access:** read-only  
**Description:** Indicates overall media status.

## Drive Status

---

**Name:** driveStatus  
**Type:** OBJECT-TYPE  
**OID:** 1.3.6.1.4.1.3764.1.10.10.12.7  
**Full path:**  
iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).adic(3764).storage(1).library(10).tapeLibraryMIB(10).rasSubSystem(12).driveStatus(7)  
**Module:** ADIC-TAPE-LIBRARY-MIB  
**Parent:** rasSubSystem  
**Prev sibling:** mediaStatus  
**Next sibling:** operatorActionRequest  
**Numerical syntax:** Integer (32 bit)  
**Base syntax:** INTEGER  
**Composed syntax:** RASSubSystemStatus  
**Status:** current  
**Max access:** read-only  
**Description:** Indicates overall drive status.

## Operator Action Request

---

**Name:** operatorActionRequest  
**Type:** OBJECT-TYPE  
**OID:** 1.3.6.1.4.1.3764.1.10.10.12.8  
**Full path:**  
iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).adic(3764).storage(1).library(10).tapeLibraryMIB(10).rasSubSystem(12).operatorActionRequest(8)  
**Module:** ADIC-TAPE-LIBRARY-MIB  
**Parent:** rasSubSystem



**Prev sibling:** driveStatus

**Numerical syntax:** Integer (32 bit)

**Base syntax:** INTEGER

**Composed syntax:** INTEGER

**Status:** current

**Max access:** read-only

**Value list:** 1: yes(1); 2: no(2).

**Description:** Yes, if operator action is required.



# 6

## SNMP Traps

This section describes the basic set of Simple Network Management Protocol (SNMP) system status traps issued by the library. Traps pertain to the entire library, not specific modules or partitions.



NOTE: The ML6000 library supports SNMP v1 and v2 traps as defined by RFC 1157.

Traps defined in the Tape Library Management Information Base (MIB) are issued with enterprise OID “Dell Tape Library MIB”, which resolves to 1.3.6.1.4.1.3764.1.10.10.

**Table 1** Status Traps

Trap ID	Trap	Description
1	<b>tapeLibNotifyStart</b>	<b>Starting</b> Indicates that the tape library has started running.
2	<b>tapeLibNotifyShutdown</b>	<b>Shutting down</b> Indicates that the library is in the process of being shut down.
3	<b>tapeLibNotifyRestart</b>	<b>Restarting</b> Indicates that the library has been restarted. This does not imply anything about whether the configuration has changed or not (unlike the standard coldStart or warmStart traps).
101	<b>startupSequenceCompleted</b>	<b>Startup Sequence Completed</b> Indicates that the library startup sequence has completed.
102	<b>shutdownSequenceInitiated</b>	<b>Shutdown Sequence Initiated</b> Indicates that the library has started its shutdown sequence.
a. The library issues a trap whenever the aggregate state of one of the Reliability, Availability, and Serviceability (RAS) status groups changes. Listening for these traps (rather than querying for them) is the preferred method of monitoring the health of the library.		

**Table 1** Status Traps (Continued)

Trap ID	Trap	Description
103	<b>phLibraryStateChange</b>	<b>Change in Online State</b> Indicates that the online state of the physical library has changed.
104	<b>moduleDoorStatusChange</b>	<b>Module Door Status Change</b> Indicates that a library access door has been opened, closed, locked, or unlocked, interrupting or enabling power to the robot.
105	<b>ieDoorStatusChange</b>	<b>I/E Door Status Change</b> Indicates that an I/E station door has been opened or closed.
106	<b>roboticsReady</b>	<b>Robotics Ready</b> Indicates that the library's robotics system has transitioned from a "not ready" to "ready" state.  Traps 106 and 107 may occur as part of a startup or shutdown procedure. If they occur at another time, a library door may be open.
107	<b>roboticsNotReady</b>	<b>Robotics Not Ready</b> Indicates that the library's robotics system has transitioned from a "ready" to "not ready" state.  Traps 106 and 107 may occur as part of a startup or shutdown procedure. If they occur at another time, a library door may be open.
108	<b>logicalLibraryStateChange</b>	<b>Logical Library State Change</b> Indicates that a logical library, also known as a partition, has been taken online or offline.
109	<b>connectivityStatusChange</b>	<b>RAS Status Change: Connectivity<sup>a</sup></b> Indicates that the status of the connectivity subsystem (which includes the I/O management unit and other components) has changed. This may indicate a change to "good" status, so refer to the return value to determine what action you should take. If the return value indicates that a problem exists, use the operator panel or remote web client to determine how to resolve the issue.
<p>a. The library issues a trap whenever the aggregate state of one of the Reliability, Availability, and Serviceability (RAS) status groups changes. Listening for these traps (rather than querying for them) is the preferred method of monitoring the health of the library.</p>		

**Table 1** Status Traps (Continued)

Trap ID	Trap	Description
110	<b>controlStatusChange</b>	<b>RAS Status Change: Control<sup>a</sup></b> Indicates that a library control problem has been detected.  Indicates that the status of the control subsystem (which includes system firmware, the operator panel, and the Library Control Blade) has changed. If the return value indicates that a problem exists, use the operator panel or remote web client to determine how to resolve the issue.
111	<b>coolingStatusChange</b>	<b>RAS Status Change: Cooling<sup>a</sup></b> Indicates that the status of the cooling subsystem has changed. If the return value indicates that a problem exists, use the operator panel or remote web client to determine how to resolve the issue.
112	<b>drivesStatusChange</b>	<b>RAS Status Change: Drives<sup>a</sup></b> Indicates that the status of the drives and/or media has changed. If the return value indicates that a problem exists, use the operator panel or remote web client to determine how to resolve the issue.
113	<b>mediaStatusChange</b>	<b>RAS Status Change: Media<sup>a</sup></b> Indicates that the status of the media has changed. If the return value indicates that a problem exists, use the operator panel or remote web client to determine how to resolve the issue.
114	<b>powerStatusChange</b>	<b>RAS Status Change: Power<sup>a</sup></b> Indicates that the status of the power subsystem has changed. If the return value indicates that a problem exists, use the operator panel or remote web client to determine how to resolve the issue.
115	<b>roboticsStatusChange</b>	<b>RAS Status Change: Robotics<sup>a</sup></b> Indicates that the status of the robotics subsystem has changed. If the return value indicates that a problem exists, use the operator panel or remote web client to determine how to resolve the issue.
116	<b>operatorInterventionRequired</b>	<b>RAS Status Change: Operator Intervention Required<sup>a</sup></b> Indicates that an error has occurred and that operator intervention is required in order to resolve the issue.
117	<b>driveOnlineStateChange</b>	<b>Drive Online State Change</b> Indicates that a tape drive has been taken online or offline.
<p>a. The library issues a trap whenever the aggregate state of one of the Reliability, Availability, and Serviceability (RAS) status groups changes. Listening for these traps (rather than querying for them) is the preferred method of monitoring the health of the library.</p>		

**Table 1** Status Traps (Continued)

Trap ID	Trap	Description
121	<b>libraryTapeAlert1</b>	<b>Drive Communication Failure</b> The library set TapeAlert 1, indicating a drive communication failure.
122	<b>libraryTapeAlert2</b>	<b>Library Hardware Failure</b> The library set TapeAlert 2, indicating a library hardware failure.
124	<b>libraryTapeAlert4</b>	<b>Non-mechanical Hardware Failure</b> The library set TapeAlert 4, indicating a non-mechanical hardware failure.
133	<b>libraryTapeAlert13</b>	<b>Cartridge Pick Problem</b> The library set TapeAlert 13, indicating a problem when picking a tape cartridge.
134	<b>libraryTapeAlert14</b>	<b>Cartridge Placement Problem</b> The library set TapeAlert 14, indicating a problem when placing a tape cartridge.
135	<b>libraryTapeAlert15</b>	<b>Drive Load Problem</b> The library set TapeAlert 15, indicating a problem when loading a tape drive.
136	<b>libraryTapeAlert16</b>	<b>Library Main Access Door Open</b> The library set TapeAlert 16, indicating an open library access door.
137	<b>libraryTapeAlert17</b>	<b>Mailbox Mechanical Problem</b> The library set TapeAlert 17, indicating a mailbox station mechanical problem.
143	<b>libraryTapeAlert23</b>	<b>Excessive Scan Retries</b> The library set TapeAlert 23, indicating that excessive scan retries occurred.
152	<b>libraryTapeAlert32</b>	<b>Barcode Label Unreadable</b> The library set TapeAlert 32, indicating that a tape cartridge barcode label could not be read.
<p>a. The library issues a trap whenever the aggregate state of one of the Reliability, Availability, and Serviceability (RAS) status groups changes. Listening for these traps (rather than querying for them) is the preferred method of monitoring the health of the library.</p>		



## MIBs Implemented

---

The library requires five Management Information Bases (MIBs): the Dell Tape Library MIB and four standard SNMP MIBs.

### Dell Tape Library MIB

---

The Dell Tape Library MIB provides the following information:

- System identification (library model and serial number)
- Notifications for a changed configuration (added and removed components)
- Library startup and shutdown traps
- Library online and offline status
- Library composition
  - Drives
  - Robotics
  - Fibre Channel I/O Blades
- Library partitioning
- Advanced status information: Reliability, Availability and Serviceability (RAS) functionality

### Reference MIBs

---

The library MIBs reference the following SNMP standard MIBs:

- IPV6-MIB of MIB II
- IP-MIB of MIB II
- RFC 1155-SMI
- RFC 1212
- RFC 1213-MIB
- RFC 1215

These MIBs must be included with your framework application. They are required for accurate compilation of the library MIBs.

# Dell Library MIB Content

---

```
-- *****
-- ADIC-TAPE-LIBRARY-MIB.mib: Tape Library Platform Specific MIB
--
-- $Date: 2010-03-05 11:07:06 -0700 (Fri, 05 Mar 2010) $
--
-- Copyright (c) 2005-2010 by Quantum Corporation
-- All rights reserved.
--
-- *****

-- Glossary of terms
--
-- RAS : Reliability, Accessibility and Serviceability
-- EVPS: Extended Virtual Private SAN (the Quantum/ADIC
--      Masking and Mapping Feature)
--
--

ADIC-TAPE-LIBRARY-MIB DEFINITIONS ::= BEGIN

IMPORTS
    NOTIFICATION-TYPE, MODULE-IDENTITY, enterprises,
    Integer32, OBJECT-TYPE FROM SNMPv2-SMI
    TEXTUAL-CONVENTION, DisplayString, TruthValue FROM SNMPv2-TC
    NOTIFICATION-GROUP, MODULE-COMPLIANCE,
    OBJECT-GROUP FROM SNMPv2-CONF;

tapeLibraryMIB MODULE-IDENTITY
    LAST-UPDATED "201003040000Z"
    ORGANIZATION "Quantum Corporation"
    CONTACT-INFO
        " Quantum Corporation
        1650 Technology Drive, Suite 700
        San Jose, CA 95110-1382
```



Tel: +1 800 284-5101

E-mail: support@quantum.com"

DESCRIPTION

"This MIB provides Tape Library product information."

REVISION "201003040000Z"

DESCRIPTION

"MIB update as of March 2010"

::= { library 10 }

adic OBJECT IDENTIFIER ::= { enterprises 3764 }

storage OBJECT IDENTIFIER ::= { adic 1 }

library OBJECT IDENTIFIER ::= { storage 10 }

tapeLibrarySystem OBJECT IDENTIFIER ::= { tapeLibraryMIB 1 }

-- the following two OBJECT IDENTIFIERS are used to define SNMPv2 Notifications  
-- that are backward compatible with SNMPv1 Traps.

tapeLibraryMIBNotificationPrefix OBJECT IDENTIFIER ::= { tapeLibraryMIB 3 }  
tapeLibraryMIBNotifications OBJECT IDENTIFIER ::= {  
tapeLibraryMIBNotificationPrefix 0 }

tapeLibraryMIBNotificationOnlyData OBJECT IDENTIFIER ::= {  
tapeLibraryMIBNotificationPrefix 1 }

--

-- Textual conventions

--

FCPortType ::= TEXTUAL-CONVENTION

STATUS current

DESCRIPTION

"Port type qualifier."

SYNTAX INTEGER {  
nPort( 1 ),  
nlPort( 2 ),  
fPort( 3 ),  
flPort( 4 ),

```
        unknown( 5 )
    }
}
```

```
SCSICtrlSpeed ::= TEXTUAL-CONVENTION
```

```
STATUS        current
```

```
DESCRIPTION
```

```
    "SCSI Speed."
```

```
SYNTAX INTEGER {
```

```
    async(0),
```

```
    fast(1),
```

```
    ultra(2) ,
```

```
    ultra80(3) ,
```

```
    ultra160(4) ,
```

```
    ultra320(5),
```

```
    ultra640(6),
```

```
    unknown(7)
```

```
}
```

```
SCSICtrlCardType ::= TEXTUAL-CONVENTION
```

```
STATUS        current
```

```
DESCRIPTION
```

```
    "SCSI Card type."
```

```
SYNTAX INTEGER {
```

```
    none(0), differentialNoTermination(1),
```

```
    differentialTerminated(2), singleEndedNoTermination(3),
```

```
    singleEndedTerminated(4), unknown(5), lowVoltageSingleEnded(6),
```

```
    lowVoltageDifferential(7), lowVoltageMultiFunction(8),
```

```
    highVoltageDifferential(9)
```

```
}
```

```
FCPortLoopIdMode ::= TEXTUAL-CONVENTION
```

```
STATUS        current
```

```
DESCRIPTION
```

```
    "Fibre Channel Loop ID mode."
```

```
SYNTAX INTEGER {
```

```
    soft( 1 ),
```

```
    hard( 2 )
```

```
}
```

```

FCPortSpeed ::= TEXTUAL-CONVENTION
STATUS      current
DESCRIPTION
    "Different port speeds in Gigabits per second."
SYNTAX INTEGER {
    auto( 1 ),
    oneGbps( 2 ),
    twoGbps( 3 ),
    fourGbps( 4 ),
    eightGbps( 5 )
}

```

```

LoopIdMode ::= TEXTUAL-CONVENTION
STATUS      current
DESCRIPTION
    "Loop modes."
SYNTAX INTEGER {
    soft( 1 ),
    hard( 2 )
}

```

```

CleaningStatus ::= TEXTUAL-CONVENTION
STATUS      current
DESCRIPTION
    "Cleaning Status."
SYNTAX INTEGER {
    required( 1 ),
    notRequired( 2 ),
    immediate( 3 )
}

```

```

InterfaceType ::= TEXTUAL-CONVENTION
STATUS      current
DESCRIPTION
    "Types of interfaces."
SYNTAX INTEGER {
    scsi( 1 ),

```

```

        fibreChannel( 2 ),
        sas (3),
        iscsi(4)
    }

IEDoorStatus ::= TEXTUAL-CONVENTION
STATUS      current
DESCRIPTION
    "Import Export Station Door Status."
SYNTAX INTEGER {
    opened( 1 ),
    closedAndLocked( 2 ),
    closedAndUnLocked( 3 )
}

RASSubSystemStatus ::= TEXTUAL-CONVENTION
STATUS      current
DESCRIPTION
    "RAS status"
SYNTAX INTEGER {
    good( 1 ),
    failed( 2 ),
    degraded( 3 ),
    warning( 4 ),
    informational( 5 ),
    unknown( 6 ),
    invalid( 7 )
}

LibraryDoorStatus ::= TEXTUAL-CONVENTION
STATUS      current
DESCRIPTION
    "Library Door Status."
SYNTAX INTEGER {
    open( 1 ),
    closed( 2 ),
    unknown( 3 )
}

```

```

RoboticsReadiness ::= TEXTUAL-CONVENTION
STATUS      current
DESCRIPTION
    "Robotics State."
SYNTAX INTEGER {
    ready( 1 ),
    notReady( 2 )
}

OnlineState ::= TEXTUAL-CONVENTION
STATUS      current
DESCRIPTION
    "online status."
SYNTAX INTEGER {
    online( 1 ),
    onlinePending( 2 ),
    offline( 3 ),
    offlinePending( 4 ),
    shutdownPending( 5 )
}

SASPortSpeed ::= TEXTUAL-CONVENTION
STATUS      current
DESCRIPTION
    "Different port speeds in Gigabits per second."
SYNTAX INTEGER {
    auto( 1 ),
    threeGbps( 2 ),
    sixGbps( 3 )
}

--
-- Tape Library parameters
--

libraryIpAddress OBJECT-TYPE

```

```

SYNTAX          DisplayString
MAX-ACCESS      read-only
STATUS          current
DESCRIPTION      "The IP address of this SNMP agent.  If the
                 library has only an IPV4 address, or both an
                 IPV4 and an IPV6 address, the the IP address is
                 displayed in IPV4 format (xxx.xxx.xxx.xxx).  If
                 the library only has an IPV6 address, then it
                 will report an IPV6 address."

 ::= { tapeLibrarySystem 1 }

```

librarySNMPAgentDescription OBJECT-TYPE

```

SYNTAX          DisplayString
MAX-ACCESS      read-only
STATUS          current
DESCRIPTION      "Description of the library SNMP agent."

 ::= { tapeLibrarySystem 2 }

```

libraryName OBJECT-TYPE

```

SYNTAX          DisplayString
MAX-ACCESS      read-only
STATUS          current
DESCRIPTION      "The host name for the system hosting the SNMP
                 agent."

 ::= { tapeLibrarySystem 3 }

```

libraryVendor OBJECT-TYPE

```

SYNTAX          DisplayString
MAX-ACCESS      read-only
STATUS          current
DESCRIPTION      "Name of Library vendor"

 ::= { tapeLibrarySystem 4 }

```

librarySerialNumber OBJECT-TYPE

```

SYNTAX          DisplayString
MAX-ACCESS      read-only
STATUS          current
DESCRIPTION      "Library Serial Number."

```

```
::= { tapeLibrarySystem 5 }
```

libraryDescription OBJECT-TYPE

```
SYNTAX          DisplayString
MAX-ACCESS      read-only
STATUS          current
DESCRIPTION     "Description of Library."
::= { tapeLibrarySystem 6 }
```

libraryModel OBJECT-TYPE

```
SYNTAX          DisplayString
MAX-ACCESS      read-only
STATUS          current
DESCRIPTION     "Model of the Library."
::= { tapeLibrarySystem 7 }
```

libraryGlobalStatus OBJECT-TYPE

```
SYNTAX          RASSubSystemStatus
MAX-ACCESS      read-only
STATUS          current
DESCRIPTION     "Current status of the entire library system (including
                all attached drive)."
::= { tapeLibrarySystem 8 }
```

libraryURL OBJECT-TYPE

```
SYNTAX          DisplayString
MAX-ACCESS      read-only
STATUS          current
DESCRIPTION     "URL of the library's management application."
::= { tapeLibrarySystem 9 }
```

libraryProductName OBJECT-TYPE

```
SYNTAX          DisplayString
MAX-ACCESS      read-only
STATUS          current
DESCRIPTION     "Product name of the library."
::= { tapeLibrarySystem 10 }
```

```

libraryFirmwareVersion OBJECT-TYPE
    SYNTAX          DisplayString
    MAX-ACCESS      read-only
    STATUS          current
    DESCRIPTION     "Library firmware version."
    ::= { tapeLibrarySystem 11 }

physicalDrive OBJECT IDENTIFIER ::= { tapeLibraryMIB 11 }

overallPhDriveReadinessStatus OBJECT-TYPE
    SYNTAX          OnlineState
    MAX-ACCESS      read-only
    STATUS          current
    DESCRIPTION     "Overall Drives readiness."
    ::= { physicalDrive 1 }

physicalDriveTable OBJECT-TYPE
    SYNTAX          SEQUENCE OF PhysicalDriveEntry
    MAX-ACCESS      not-accessible
    STATUS          current
    DESCRIPTION     "A table of all tape drive devices in the domain
                    of this SNMP agent."
    ::= { physicalDrive 3 }

physicalDriveEntry OBJECT-TYPE
    SYNTAX          PhysicalDriveEntry
    MAX-ACCESS      not-accessible
    STATUS          current
    DESCRIPTION     "A single physical drive"
    INDEX          { phDriveIndex }
    ::= { physicalDriveTable 1 }

PhysicalDriveEntry ::= SEQUENCE {
    phDriveIndex
        Integer32,
    phDriveSerialNumber
        DisplayString,
    phDriveModel

```



```

        DisplayString,
phDriveVendor
        DisplayString,
phDriveType
        DisplayString,
phDriveLocation
        DisplayString,
phDriveFirmwareVersion
        DisplayString,
phDriveLogicalLibraryName
        DisplayString,
phDriveLibrarySerialNumber
        DisplayString,
phDriveState
        OnlineState,
phDriveRasStatus
        RASSubSystemStatus,
phDriveNeedsCleaning
        CleaningStatus,
phDriveInterfaceType
        InterfaceType,
phDriveScsiLun
        Integer32,
phDriveScsiId
        Integer32,
phDriveLoads
        Integer32,
phDrivePhysicalSerialNumber
        DisplayString
}

```

phDriveIndex OBJECT-TYPE

```

SYNTAX          Integer32 (1..1000)
MAX-ACCESS     not-accessible
STATUS         current
DESCRIPTION    "Table entry index value. Index of this Drive"
 ::= { physicalDriveEntry 1 }

```

phDriveSerialNumber OBJECT-TYPE

SYNTAX                    DisplayString  
MAX-ACCESS                read-only  
STATUS                    current  
DESCRIPTION                "Device serial number as reported in SCSI Inquiry  
                              command."  
 ::= { physicalDriveEntry 2 }

phDriveModel OBJECT-TYPE

SYNTAX                    DisplayString  
MAX-ACCESS                read-only  
STATUS                    current  
DESCRIPTION                "Device Model as would be reported in a SCSI Inquiry  
                              command."  
 ::= { physicalDriveEntry 3 }

phDriveVendor OBJECT-TYPE

SYNTAX                    DisplayString  
MAX-ACCESS                read-only  
STATUS                    current  
DESCRIPTION                "Device Vendor as would be reported in a SCSI Inquiry  
                              command."  
 ::= { physicalDriveEntry 4 }

phDriveType OBJECT-TYPE

SYNTAX                    DisplayString  
MAX-ACCESS                read-only  
STATUS                    current  
DESCRIPTION                "Drive generation type."  
 ::= { physicalDriveEntry 5 }

phDriveLocation OBJECT-TYPE

SYNTAX                    DisplayString  
MAX-ACCESS                read-only  
STATUS                    current  
DESCRIPTION                "Location of the Drive in the Library"  
 ::= { physicalDriveEntry 6 }

phDriveFirmwareVersion OBJECT-TYPE

SYNTAX                    DisplayString  
MAX-ACCESS                read-only  
STATUS                     current  
DESCRIPTION                "Device firmware level as would be reported in  
                              a SCSI Inquiry command."  
 ::= { physicalDriveEntry 7 }

phDriveLogicalLibraryName OBJECT-TYPE

SYNTAX                    DisplayString  
MAX-ACCESS                read-only  
STATUS                     current  
DESCRIPTION                "Name of the logical library (partition)  
                              to which this physical drive is associated.  
                              If the drive is not associated with a logical  
                              library, this field will be blank."  
 ::= { physicalDriveEntry 8 }

phDriveLibrarySerialNumber OBJECT-TYPE

SYNTAX                    DisplayString  
MAX-ACCESS                read-only  
STATUS                     current  
DESCRIPTION                "Serial Number of the library that this drive is  
                              in as reported in SCSI Inquiry command,"  
 ::= { physicalDriveEntry 9 }

phDriveState OBJECT-TYPE

SYNTAX                    OnlineState  
MAX-ACCESS                read-only  
STATUS                     current  
DESCRIPTION                "Device SCSI State."  
 ::= { physicalDriveEntry 10 }

phDriveRasStatus OBJECT-TYPE

SYNTAX                    RASSubSystemStatus  
MAX-ACCESS                read-only  
STATUS                     current  
DESCRIPTION                "Drive health status."

```
::= { physicalDriveEntry 11 }
```

phDriveNeedsCleaning OBJECT-TYPE

```
SYNTAX          CleaningStatus
MAX-ACCESS      read-only
STATUS          current
DESCRIPTION     "Cleaning status of the Drive."
::= { physicalDriveEntry 12 }
```

phDriveInterfaceType OBJECT-TYPE

```
SYNTAX          InterfaceType
MAX-ACCESS      read-only
STATUS          current
DESCRIPTION     "Interface Type of the drive."
::= { physicalDriveEntry 13 }
```

phDriveScsiLun OBJECT-TYPE

```
SYNTAX          Integer32
MAX-ACCESS      read-only
STATUS          current
DESCRIPTION     "SCSI Lun of the device."
::= { physicalDriveEntry 14 }
```

phDriveScsiId OBJECT-TYPE

```
SYNTAX          Integer32
MAX-ACCESS      read-only
STATUS          current
DESCRIPTION     "SCSI ID of the device."
::= { physicalDriveEntry 15 }
```

phDriveLoads OBJECT-TYPE

```
SYNTAX          Integer32
MAX-ACCESS      read-only
STATUS          current
DESCRIPTION     "Total cartridge loads for the drive."
::= { physicalDriveEntry 16 }
```

phDrivePhysicalSerialNumber OBJECT-TYPE

SYNTAX                    DisplayString  
MAX-ACCESS                read-only  
STATUS                    current  
DESCRIPTION               "Physical Drive serial number."  
 ::= { physicalDriveEntry 17 }

rasSubSystem OBJECT IDENTIFIER ::= { tapeLibraryMIB 12 }

powerStatus OBJECT-TYPE

SYNTAX                    RASubSystemStatus  
MAX-ACCESS                read-only  
STATUS                    current  
DESCRIPTION               "Indicates overall power supply Status"  
 ::= { rasSubSystem 1 }

coolingStatus OBJECT-TYPE

SYNTAX                    RASubSystemStatus  
MAX-ACCESS                read-only  
STATUS                    current  
DESCRIPTION               "Indicates overall cooling fans Status."  
 ::= { rasSubSystem 2 }

controlStatus OBJECT-TYPE

SYNTAX                    RASubSystemStatus  
MAX-ACCESS                read-only  
STATUS                    current  
DESCRIPTION               "Indicate overall control subsystem status."  
 ::= { rasSubSystem 3 }

connectivityStatus OBJECT-TYPE

SYNTAX                    RASubSystemStatus  
MAX-ACCESS                read-only  
STATUS                    current  
DESCRIPTION               "Indicates overall connectivity Status"  
 ::= { rasSubSystem 4 }

roboticsStatus OBJECT-TYPE

```

SYNTAX          RASubSystemStatus
MAX-ACCESS      read-only
STATUS          current
DESCRIPTION     "Indicates overall robotics Status"
 ::= { rasSubSystem 5 }

```

mediaStatus OBJECT-TYPE

```

SYNTAX          RASubSystemStatus
MAX-ACCESS      read-only
STATUS          current
DESCRIPTION     "Indicates overall media Status"
 ::= { rasSubSystem 6 }

```

driveStatus OBJECT-TYPE

```

SYNTAX          RASubSystemStatus
MAX-ACCESS      read-only
STATUS          current
DESCRIPTION     "Indicates overall drive Status"
 ::= { rasSubSystem 7 }

```

operatorActionRequest OBJECT-TYPE

```

SYNTAX          INTEGER {
                    yes( 1 ),
                    no( 2 )
                  }
MAX-ACCESS      read-only
STATUS          current
DESCRIPTION     "yes, if operator Action is required."
 ::= { rasSubSystem 8 }

```

logicalLibrary OBJECT IDENTIFIER ::= { tapeLibraryMIB 13 }

numLogicalLibraries OBJECT-TYPE

```

SYNTAX          Integer32
MAX-ACCESS      read-only
STATUS          current
DESCRIPTION     "Number of existing logical libraries (partitions)."
 ::= { logicalLibrary 1 }

```

logicalLibraryTable OBJECT-TYPE

```
SYNTAX          SEQUENCE OF LogicalLibraryEntry
MAX-ACCESS      not-accessible
STATUS          current
DESCRIPTION     "Logical Library Table."
 ::= { logicalLibrary 2 }
```

logicalLibraryEntry OBJECT-TYPE

```
SYNTAX          LogicalLibraryEntry
MAX-ACCESS      not-accessible
STATUS          current
DESCRIPTION     "A single logical library"
INDEX          { logicalLibraryIndex }
 ::= { logicalLibraryTable 1 }
```

```
LogicalLibraryEntry ::= SEQUENCE {
    logicalLibraryIndex
        Integer32,
    logicalLibraryName
        DisplayString,
    logicalLibrarySerialNumber
        DisplayString,
    logicalLibraryModel
        DisplayString,
    logicalLibraryAssignedLun
        Integer32,
    logicalLibraryMediaDomain
        DisplayString,
    logicalLibrarySupportedMediaTypes
        DisplayString,
    logicalLibraryState
        OnlineState,
    logicalLibraryNumSlots
        Integer32,
    logicalLibraryNumIE
        Integer32,
    logicalLibraryNumTapeDrives
        Integer32,
```

```

logicalLibraryStorageElemAddr
    Integer32,
logicalLibraryIEElemAddr
    Integer32,
logicalLibraryTapeDriveElemAddr
    Integer32,
logicalLibraryChangerDeviceAddr
    Integer32
}

logicalLibraryIndex OBJECT-TYPE
    SYNTAX          Integer32 (1..16)
    MAX-ACCESS      not-accessible
    STATUS          current
    DESCRIPTION     "Table entry index value. Each unique partition
                    has a unique partitionIndex."
    ::= { logicalLibraryEntry 1 }

logicalLibraryName OBJECT-TYPE
    SYNTAX          DisplayString
    MAX-ACCESS      read-only
    STATUS          current
    DESCRIPTION     "Logical Library Name"
    ::= { logicalLibraryEntry 2 }

logicalLibrarySerialNumber OBJECT-TYPE
    SYNTAX          DisplayString
    MAX-ACCESS      read-only
    STATUS          current
    DESCRIPTION     "Logical Library Serial Number"
    ::= { logicalLibraryEntry 3 }

logicalLibraryModel OBJECT-TYPE
    SYNTAX          DisplayString
    MAX-ACCESS      read-only
    STATUS          current
    DESCRIPTION     "Logical Library Model"
    ::= { logicalLibraryEntry 4 }

```



```

logicalLibraryAssignedLun OBJECT-TYPE
    SYNTAX          Integer32
    MAX-ACCESS      read-only
    STATUS          current
    DESCRIPTION     "Assigned LUN of this library's (virtual) SCSI media
changer."
    ::= { logicalLibraryEntry 5 }

```

```

logicalLibraryMediaDomain OBJECT-TYPE
    SYNTAX          DisplayString
    MAX-ACCESS      read-only
    STATUS          current
    DESCRIPTION     "Supported Media Domain."
    ::= { logicalLibraryEntry 6 }

```

```

logicalLibrarySupportedMediaTypes OBJECT-TYPE
    SYNTAX          DisplayString
    MAX-ACCESS      read-only
    STATUS          current
    DESCRIPTION     "Supported Media Types."
    ::= { logicalLibraryEntry 7 }

```

```

logicalLibraryState OBJECT-TYPE
    SYNTAX          OnlineState
    MAX-ACCESS      read-only
    STATUS          current
    DESCRIPTION     "Status of logical library."
    ::= { logicalLibraryEntry 8 }

```

```

logicalLibraryNumSlots OBJECT-TYPE
    SYNTAX          Integer32
    MAX-ACCESS      read-only
    STATUS          current
    DESCRIPTION     "Number of Storage Elements."
    ::= { logicalLibraryEntry 9 }

```

logicalLibraryNumIE OBJECT-TYPE

SYNTAX Integer32  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION "Number of Import/Export Elements."  
 ::= { logicalLibraryEntry 10 }

logicalLibraryNumTapeDrives OBJECT-TYPE

SYNTAX Integer32  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION "Number of tape drives in the partition."  
 ::= { logicalLibraryEntry 11 }

logicalLibraryStorageElemAddr OBJECT-TYPE

SYNTAX Integer32  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION "First Storage Element Address of the partition."  
 ::= { logicalLibraryEntry 12 }

logicalLibraryIEElemAddr OBJECT-TYPE

SYNTAX Integer32  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION "First Import/Export Element Address of the partition."  
 ::= { logicalLibraryEntry 13 }

logicalLibraryTapeDriveElemAddr OBJECT-TYPE

SYNTAX Integer32  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION "First Data Transfer Element Address of the partition."  
 ::= { logicalLibraryEntry 14 }

logicalLibraryChangerDeviceAddr OBJECT-TYPE

SYNTAX Integer32  
MAX-ACCESS read-only

STATUS current  
DESCRIPTION "First Medium Transport Element Address."  
::= { logicalLibraryEntry 15 }

physicalLibrary OBJECT IDENTIFIER ::= { tapeLibraryMIB 14 }

physicalLibraryState OBJECT-TYPE

SYNTAX OnlineState  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION "Physical library's overall online  
status"  
::= { physicalLibrary 1 }

aggregatedMainDoorStatus OBJECT-TYPE

SYNTAX LibraryDoorStatus  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION "The status is 'open' if any door is open."  
::= { physicalLibrary 2 }

aggregatedIEDoorStatus OBJECT-TYPE

SYNTAX IEDoorStatus  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION "The status is 'open' if any door is open."  
::= { physicalLibrary 3 }

numStorageSlots OBJECT-TYPE

SYNTAX Integer32  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION "Number of storage slots."  
::= { physicalLibrary 4 }

numIESlots OBJECT-TYPE

SYNTAX Integer32

```

MAX-ACCESS          read-only
STATUS              current
DESCRIPTION         "Number of Import Export slots."
 ::= { physicalLibrary 5 }

numPhDrives OBJECT-TYPE
    SYNTAX          Integer32
    MAX-ACCESS      read-only
    STATUS          current
    DESCRIPTION     "Number of drives."
    ::= { physicalLibrary 6 }

robot OBJECT IDENTIFIER ::= { physicalLibrary 30 }

robotState OBJECT-TYPE
    SYNTAX          RoboticsReadiness
    MAX-ACCESS      read-only
    STATUS          current
    DESCRIPTION     "Device SCSI state."
    ::= { robot 2 }

libraryInterfaces OBJECT IDENTIFIER ::= { tapeLibraryMIB 15 }

fcPortTable OBJECT-TYPE
    SYNTAX          SEQUENCE OF FcPortEntry
    MAX-ACCESS      not-accessible
    STATUS          current
    DESCRIPTION     "FC Port Table"
    ::= { libraryInterfaces 1 }

fcPortEntry OBJECT-TYPE
    SYNTAX          FcPortEntry
    MAX-ACCESS      not-accessible
    STATUS          current
    DESCRIPTION     "FC Port Table"
    INDEX           { fcPortIndex }
    ::= { fcPortTable 1 }

```

```

FcPortEntry ::= SEQUENCE {
    fcPortIndex
        Integer32,
    fcPortType
        FCPortType,
    fcPortWWNodeName
        DisplayString,
    fcPortWWPortName
        DisplayString,
    fcPortLoopId
        Integer32,
    fcPortLoopIdMode
        FCPortLoopIdMode,
    fcPortId
        Integer32,
    fcPortNegotiatedSpeed
        FCPortSpeed,
    fcPortRasStatus
        RASSubSystemStatus,
    fcPortFWRev
        DisplayString,
    fcPortFrameSize
        Integer32,
    fcPortDriveSerialNumber
        DisplayString,
    fcPortLogicalLibrarySerialNumber
        DisplayString
}

```

fcPortIndex OBJECT-TYPE

```

SYNTAX          Integer32 (1..1000)
MAX-ACCESS      not-accessible
STATUS          current
DESCRIPTION     "Table entry index value."
 ::= { fcPortEntry 1 }

```

fcPortType OBJECT-TYPE

```

SYNTAX  FCPortType
MAX-ACCESS read-only
STATUS  current
DESCRIPTION
    "Fibre Channel Port Type"
 ::= { fcPortEntry 2 }

fcPortWWNodeName OBJECT-TYPE
    SYNTAX          DisplayString
    MAX-ACCESS      read-only
    STATUS          current
    DESCRIPTION     "8-byte value representing the drive's World Wide
                    Node Name."
    ::= { fcPortEntry 3 }

fcPortWWPortName OBJECT-TYPE
    SYNTAX          DisplayString
    MAX-ACCESS      read-only
    STATUS          current
    DESCRIPTION     "World Wide Name of a port in the fibre channel
                    fabric."
    ::= { fcPortEntry 4 }

fcPortLoopId OBJECT-TYPE
    SYNTAX          Integer32
    MAX-ACCESS      read-only
    STATUS          current
    DESCRIPTION     "Loop ID for Fibre Channel drives,
                    undefined for other interface type drive."
    ::= { fcPortEntry 5 }

fcPortLoopIdMode OBJECT-TYPE
    SYNTAX          FCPortLoopIdMode
    MAX-ACCESS      read-only
    STATUS          current

```

```

DESCRIPTION          "Loop ID Mode for Fibre Channel drives, undefined for
                    other interface types. Controls negotiation of the port ID
                    on the Fibre Channel connection."
 ::= { fcPortEntry 6 }

fcPortId OBJECT-TYPE
    SYNTAX             Integer32
    MAX-ACCESS         read-only
    STATUS              current
    DESCRIPTION        "Port ID for fabric attached Fibre Channel drive,
undefined
                    for other interface types."
 ::= { fcPortEntry 7 }

fcPortNegotiatedSpeed OBJECT-TYPE
    SYNTAX             FCPortSpeed
    MAX-ACCESS         read-only
    STATUS              current
    DESCRIPTION        "Actual speed as negotiated .
                    The numeric value of this object is equal to the
port speed in gigabits per second."
 ::= { fcPortEntry 8 }

fcPortRasStatus     OBJECT-TYPE
    SYNTAX             RASubSystemStatus
    MAX-ACCESS         read-only
    STATUS              current
    DESCRIPTION        "Currently not applicable"
 ::= { fcPortEntry 9 }

fcPortFWRev OBJECT-TYPE
    SYNTAX             DisplayString
    MAX-ACCESS         read-only
    STATUS              current
    DESCRIPTION        "Firmware revision number/identifier for this
                    Fibre Channel Controller."
 ::= { fcPortEntry 10 }

```

fcPortFrameSize OBJECT-TYPE

SYNTAX Integer32

MAX-ACCESS read-only

STATUS current

DESCRIPTION "Fibre Channel frame size."

::= { fcPortEntry 11 }

fcPortDriveSerialNumber OBJECT-TYPE

SYNTAX DisplayString

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"Tape drive serial number."

::= { fcPortEntry 12 }

fcPortLogicalLibrarySerialNumber OBJECT-TYPE

SYNTAX DisplayString

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"Tape drive logical library serial number."

::= { fcPortEntry 13 }

scsiControllerTable OBJECT-TYPE

SYNTAX SEQUENCE OF ScsiControllerEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION "SCSI Controller Table"

::= { libraryInterfaces 2 }

scsiControllerEntry OBJECT-TYPE

SYNTAX ScsiControllerEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION "SCSI Controller Table"

INDEX { scsiControllerIndex }

::= { scsiControllerTable 1 }



```

ScsiControllerEntry ::= SEQUENCE {
    scsiControllerIndex
        Integer32,
    scsiControllerRasStatus
        RASSubSystemStatus,
    scsiControllerSpeed
        SCSI CtrlSpeed,
    scsiControllerRole
        INTEGER,
    scsiControllerIoCard
        SCSI CtrlCardType,
    scsiControllerMaxIds
        INTEGER,
    scsiControllerMaxLuns
        INTEGER,
    scsiControllerMaxWidth
        INTEGER,
    scsiControllerFWRev
        DisplayString,
    scsiControllerDriveSerialNumber
        DisplayString,
    scsiControllerLogicalLibrarySN
        DisplayString
}

scsiControllerIndex OBJECT-TYPE
    SYNTAX          Integer32 (1..1000)
    MAX-ACCESS      not-accessible
    STATUS          current
    DESCRIPTION     "Table entry index value."
    ::= { scsiControllerEntry 1 }

scsiControllerRasStatus OBJECT-TYPE
    SYNTAX          RASSubSystemStatus
    MAX-ACCESS      read-only
    STATUS          current
    DESCRIPTION     "Currently not applicable."

```

```
::= { scsiControllerEntry 2 }
```

```
scsiControllerSpeed OBJECT-TYPE
```

```
SYNTAX SCSICtrlSpeed
```

```
MAX-ACCESS read-only
```

```
STATUS current
```

```
DESCRIPTION
```

```
"SCSI Transaction speed."
```

```
::= { scsiControllerEntry 3 }
```

```
scsiControllerRole OBJECT-TYPE
```

```
SYNTAX INTEGER{ target(0) , initiator(1) }
```

```
MAX-ACCESS read-only
```

```
STATUS current
```

```
DESCRIPTION "SCSI role of the drive (target or initiator)"
```

```
::= { scsiControllerEntry 4 }
```

```
scsiControllerIoCard OBJECT-TYPE
```

```
SYNTAX SCSICtrlCardType
```

```
MAX-ACCESS read-only
```

```
STATUS current
```

```
DESCRIPTION
```

```
"Type of SCSI controller hardware."
```

```
::= { scsiControllerEntry 5 }
```

```
scsiControllerMaxIds OBJECT-TYPE
```

```
SYNTAX INTEGER
```

```
MAX-ACCESS read-only
```

```
STATUS current
```

```
DESCRIPTION
```

```
"Maximum Number of IDs for this  
SCSI controller."
```

```
::= { scsiControllerEntry 6 }
```

```
scsiControllerMaxLuns OBJECT-TYPE
```

```
SYNTAX INTEGER
```

```
MAX-ACCESS read-only
```

```
STATUS current
```

```

DESCRIPTION
    "Maximum Number of LUNs for this
    SCSI controller."
 ::= { scsiControllerEntry 7 }

scsiControllerMaxWidth OBJECT-TYPE
    SYNTAX  INTEGER
    MAX-ACCESS read-only
    STATUS   current
    DESCRIPTION "Maximum transfer width in bits."
 ::= { scsiControllerEntry 8 }

scsiControllerFWRev OBJECT-TYPE
    SYNTAX  DisplayString
    MAX-ACCESS read-only
    STATUS   current
    DESCRIPTION
        "Firmware revision for this
        SCSI controller."
 ::= { scsiControllerEntry 9 }

scsiControllerDriveSerialNumber OBJECT-TYPE
    SYNTAX  DisplayString
    MAX-ACCESS read-only
    STATUS   current
    DESCRIPTION
        "Serial Number of Tape Drive."
 ::= { scsiControllerEntry 10 }

scsiControllerLogicalLibrarySN OBJECT-TYPE
    SYNTAX  DisplayString
    MAX-ACCESS read-only
    STATUS   current
    DESCRIPTION
        "Logical library serial number."
 ::= { scsiControllerEntry 11 }

sasPortTable OBJECT-TYPE

```

```

SYNTAX          SEQUENCE OF SasPortEntry
MAX-ACCESS      not-accessible
STATUS          current
DESCRIPTION     "SAS Port Table"
 ::= { libraryInterfaces 3 }

```

sasPortEntry OBJECT-TYPE

```

SYNTAX          SasPortEntry
MAX-ACCESS      not-accessible
STATUS          current
DESCRIPTION     "SAS Port Table"
INDEX          { sasPortIndex }
 ::= { sasPortTable 1 }

```

```

SasPortEntry ::= SEQUENCE {
    sasPortIndex
        Integer32,
    sasPortAddress
        DisplayString,
    sasPortRasStatus
        RASSubSystemStatus,
    sasPortNegotiatedSpeed
        SASPortSpeed,
    sasPortFWRev
        DisplayString,
    sasPortDriveSerialNumber
        DisplayString,
    sasPortLogicalLibrarySN
        DisplayString
}

```

sasPortIndex OBJECT-TYPE

```

SYNTAX          Integer32 (1..1000)
MAX-ACCESS      not-accessible
STATUS          current
DESCRIPTION     "Table entry index value."
 ::= { sasPortEntry 1 }

```

```

sasPortAddress OBJECT-TYPE
    SYNTAX          DisplayString
    MAX-ACCESS      read-only
    STATUS          current
    DESCRIPTION     "8-byte value representing the World Wide Name
                    for this drive"
 ::= { sasPortEntry 2 }

```

```

sasPortRasStatus OBJECT-TYPE
    SYNTAX RASSubSystemStatus
    MAX-ACCESS read-only
    STATUS  current
    DESCRIPTION "Currently not applicable"
 ::= { sasPortEntry 3 }

```

```

sasPortNegotiatedSpeed OBJECT-TYPE
    SYNTAX SASPortSpeed
    MAX-ACCESS read-only
    STATUS  current
    DESCRIPTION
        "SAS port speed."
 ::= { sasPortEntry 4 }

```

```

sasPortFWRev OBJECT-TYPE
    SYNTAX DisplayString
    MAX-ACCESS read-only
    STATUS  current
    DESCRIPTION
        "Firmware revision for this
        tape drive."
 ::= { sasPortEntry 5 }

```

```

sasPortDriveSerialNumber OBJECT-TYPE
    SYNTAX DisplayString
    MAX-ACCESS read-only
    STATUS  current
    DESCRIPTION
        "Tape drive serial number."

```

```

 ::= { sasPortEntry 6 }

sasPortLogicalLibrarySN OBJECT-TYPE
    SYNTAX DisplayString
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Logical library serial number."
 ::= { sasPortEntry 7 }

-- start blade additions

-- Reboot Image Agent and Reset Controllers
Reset ::= INTEGER { run(0) , reset(1) , reboot(2) }

-- Device types
DeviceType ::= INTEGER{ directAccess(0), sequentialAccess(1),
    printer(2),
    processor(3), worm(4), cd(5), scanner(6), opticalMemory(7),
    mediumChanger(8), communications(9), ascIt81(10), ascIt82(11),
    storageArrayController(12), enclosure(13), simplifiedDirectAccess(14),
    opticalCardReader(15), unknown(31) }

-- a truth value
Boolean ::= INTEGER { true(1), false(2) }

-- FC Status
FcStatus ::= INTEGER { configWait(0), loopInit(1), login(2), ready(3),
    lostSync(4), error(5), reinit(6), nonPart(7), failed(8) }

-- Fibre Channel Port Type
FibrePort ::= INTEGER{ nodeLoop(0) , node(1) , fabricLoop(3), fabric(4),
    none( 255 ) }

-- Fibre Port Mode
FibrePortMode ::= INTEGER{ privateTargetOnly(1),
    privateInitiatorOnly(2),
    privateTargetAndInitiator(3),

```

```

        publicTargetOnly(17),
        publicInitiatorOnly(18),
        publicTargetAndInitiator(19) }

-- Fibre Channel Connection options
    FibreConnOptions ::= INTEGER{ loopOnly(0),
        pointToPointOnly(1),
        loopPreferred(2),
        pointToPointPreferred(3) }

-- SCSI ANSI Level
    ScsiAnsiLevel ::= INTEGER{ notScsi(0) , scsi-1(1), scsi-2(2) , scsi-3(3) }

-- Blade Status
    BladeState ::= INTEGER{ unknown(0), notReady(1), booting(2),
autoleveling(3), autolevelcomplete(4), autolevelfailed(5), ready(6),
powereddown(7) }

-- *** FC Host Port Failover ***
    FCHPFRecoveryType ::= INTEGER {returnToActive(0), returnToStandby(1),
requiresIntervention(2)}
    FCHPFPortState     ::= INTEGER {onLine(0), offLine(1)}
    FCHPFPortFailType  ::= INTEGER {none(0), linkDown(1), linkError(2)}

-- blade top-level

bladeInterfaces OBJECT IDENTIFIER ::= { tapeLibraryMIB 16 }

bladeTable OBJECT-TYPE
    SYNTAX          SEQUENCE OF BladeEntry
    MAX-ACCESS      not-accessible
    STATUS          current
    DESCRIPTION     "Data Appliance Blade Table"
    ::= { bladeInterfaces 1 }

bladeEntry OBJECT-TYPE
    SYNTAX          BladeEntry
    MAX-ACCESS      not-accessible
    STATUS          current

```

```

DESCRIPTION          "Data Appliance Blade Entry"
INDEX                { bladeIndex }
 ::= { bladeTable 1 }

BladeEntry ::= SEQUENCE {
    bladeIndex          INTEGER,
    bladeLocation       DisplayString,
    bladeIP             DisplayString,
    bladeWWNodeName    OCTET STRING,
    bladeHealthCheckValue Gauge,
    bladeHealthCheckInterval Gauge,
    bladeHealthCheckLevel INTEGER,
    bladeFWRev          DisplayString,
    bladeSerialNumber   DisplayString,
    bladeEVPSEnabled    INTEGER,
    bladeMaxHostLun     INTEGER,
    bladeState          BladeState,
    blHPFLinkDownThreshold INTEGER ,
    blHPFErrorRecoveryMode FCHPFRecoveryType ,
    blHPFLinkDownRecoveryMode FCHPFRecoveryType
}

--
-- Begin definitions
--

bladeIndex OBJECT-TYPE
    SYNTAX INTEGER
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        "Blade index"
    ::= { bladeEntry 1 }

bladeLocation OBJECT-TYPE
    SYNTAX DisplayString
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION

```



```
        "Blade location"  
 ::= { bladeEntry 2 }
```

bladeIP OBJECT-TYPE

SYNTAX DisplayString

ACCESS read-only

STATUS mandatory

DESCRIPTION

"Blade IP address"

```
 ::= { bladeEntry 3 }
```

bladeWWNodeName OBJECT-TYPE

SYNTAX OCTET STRING

ACCESS read-only

STATUS mandatory

DESCRIPTION

"Blade World Wide Node Name"

```
 ::= { bladeEntry 4 }
```

bladeHealthCheckValue OBJECT-TYPE

SYNTAX Gauge

ACCESS read-only

STATUS mandatory

DESCRIPTION

"Value in percent of health check  
tests passed."

```
 ::= { bladeEntry 5 }
```

bladeHealthCheckLevel OBJECT-TYPE

SYNTAX INTEGER{ none(0), system(1) , interface(2) , simpleDevice(3),  
deviceReady(4) }

ACCESS read-only

STATUS mandatory

DESCRIPTION

"Scrutiny level of health check function."

```
 ::= { bladeEntry 6 }
```

bladeHealthCheckInterval OBJECT-TYPE

```
SYNTAX Gauge
ACCESS read-only
STATUS mandatory
DESCRIPTION "Health Check interval in minutes."
::= { bladeEntry 7 }
```

bladeFWRev OBJECT-TYPE

```
SYNTAX DisplayString (SIZE (0..64))
ACCESS read-only
STATUS mandatory
DESCRIPTION "Blade Firmware Revision information."
::= { bladeEntry 8 }
```

bladeSerialNumber OBJECT-TYPE

```
SYNTAX DisplayString (SIZE (0..64))
ACCESS read-only
STATUS mandatory
DESCRIPTION "Blade Serial Number."
::= { bladeEntry 9 }
```

bladeEVPSEnabled OBJECT-TYPE

```
SYNTAX INTEGER
ACCESS read-only
STATUS mandatory
DESCRIPTION "Bit 0: EVPS active if 1, inactive if 0
             Bit 1: EVPS licensed if 1, unlicensed if 0"
::= { bladeEntry 10 }
```

bladeMaxHostLun OBJECT-TYPE -- C.R. 2370

```
SYNTAX INTEGER
ACCESS read-only
STATUS mandatory
DESCRIPTION "The number of devices one host can see"
::= { bladeEntry 11 }
```

bladeState OBJECT-TYPE

```
SYNTAX BladeState
ACCESS read-only
```

```

STATUS mandatory
DESCRIPTION "Blade state"
::= { bladeEntry 12 }

blHPFLinkDownThreshold OBJECT-TYPE
    SYNTAX INTEGER
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION "Used to set the Link Down threshold delay period in
                 seconds. The failover is triggered when the delay period
                 ends."
::= { bladeEntry 13 }

blHPFErrorRecoveryMode OBJECT-TYPE
    SYNTAX FchPFRecoveryType
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION "Used to set the global recovery mode for
                 failures that happen due to FC cable errors
                 Values: returnToActive(0), returnToStandby(1),
                 requiresIntervention(2)"
::= { bladeEntry 14 }

blHPFLinkDownRecoveryMode OBJECT-TYPE
    SYNTAX FchPFRecoveryType
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION "Used to set the global recovery mode for
                 failures that happen due to Link Down Errors
                 Values: returnToActive(0), returnToStandby(1),
                 requiresIntervention(2)"
::= { bladeEntry 15 }

-- One Level down
-- Blade Device Info
blDevTable OBJECT-TYPE
    SYNTAX SEQUENCE OF BlDevEntry
    MAX-ACCESS not-accessible

```

```

STATUS          current
DESCRIPTION     "Data Appliance Blade Device Table"
 ::= { bladeInterfaces 2 }

blDevEntry OBJECT-TYPE
SYNTAX          BlDevEntry
MAX-ACCESS     not-accessible
STATUS         current
DESCRIPTION     "Data Appliance Blade Device Entry"
INDEX          { bladeIndex, blDevIndex }
 ::= { blDevTable 1 }

BlDevEntry ::= SEQUENCE {
    blDevIndex      INTEGER,
    blDevUID        DisplayString,
    blDevType       DeviceType,
    blDevVendor     DisplayString,
    blDevProduct    DisplayString,
    blDevSerial     DisplayString,
    blDevInterfaceType InterfaceType,
    blDevLun        INTEGER,
    blDevCtlrIndex  INTEGER,
    blDevFWRev      DisplayString,
    blDevTargetLun  INTEGER
}

blDevIndex OBJECT-TYPE
SYNTAX INTEGER
ACCESS read-only
STATUS mandatory
DESCRIPTION "MIB table index"
 ::= { blDevEntry 1 }

blDevUID OBJECT-TYPE
SYNTAX DisplayString(SIZE(16))
ACCESS read-only
STATUS mandatory
DESCRIPTION "Universal Identifier"
 ::= { blDevEntry 2 }

```

```

blDevType OBJECT-TYPE
    SYNTAX DeviceType
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION "Device Type."
 ::= { blDevEntry 3 }
blDevVendor OBJECT-TYPE
    SYNTAX DisplayString(SIZE(8))
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION "Device Vendor"
 ::= { blDevEntry 4 }
blDevProduct OBJECT-TYPE
    SYNTAX DisplayString(SIZE(16))
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION "Device Product Identifier"
 ::= { blDevEntry 5 }
blDevSerial OBJECT-TYPE
    SYNTAX DisplayString( SIZE(0..32))
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION "Device Serial Number"
 ::= { blDevEntry 6 }
blDevInterfaceType OBJECT-TYPE
    SYNTAX InterfaceType
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION "This device's type of communication interface."
 ::= { blDevEntry 7 }
blDevLun OBJECT-TYPE
    SYNTAX INTEGER
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION "SCSI Logical Unit Number of the device."
 ::= { blDevEntry 8 }
blDevCtlrIndex OBJECT-TYPE
    SYNTAX INTEGER

```

```

ACCESS read-only
STATUS mandatory
DESCRIPTION
    "Index of this device's controller in the
    Controllers MIB table and type-specific
    controller tables"
 ::= { blDevEntry 9 }
blDevFWRev OBJECT-TYPE
    SYNTAX DisplayString( SIZE(0..32))
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION "Device firmware revision number/identifier"
 ::= { blDevEntry 10 }
blDevTargetLun OBJECT-TYPE
    SYNTAX INTEGER
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION "This target device's Logical Unit Number as
    seen from attached host."
 ::= { blDevEntry 11 }

-- Blade Controller Info
blCtrlrTable OBJECT-TYPE
    SYNTAX          SEQUENCE OF BlCtrlrEntry
    MAX-ACCESS      not-accessible
    STATUS          current
    DESCRIPTION     "Data Appliance Blade Controller Table"
    ::= { bladeInterfaces 3 }

blCtrlrEntry OBJECT-TYPE
    SYNTAX          BlCtrlrEntry
    MAX-ACCESS      not-accessible
    STATUS          current
    DESCRIPTION     "Data Appliance Blade Controller Entry"
    INDEX          { bladeIndex, blCtrlrIndex }
    ::= { blCtrlrTable 1 }

BlCtrlrEntry ::= SEQUENCE {

```

```

blCtrlrIndex          INTEGER,
blCtrlrType           InterfaceType,
blCtrlrChannelMask    Gauge
}

```

blCtrlrIndex OBJECT-TYPE

```

SYNTAX  INTEGER
ACCESS  read-only
STATUS  mandatory
DESCRIPTION "MIB Table index."

```

```
 ::= { blCtrlrEntry 1 }
```

blCtrlrType OBJECT-TYPE

```

SYNTAX  InterfaceType
ACCESS  read-only
STATUS  mandatory
DESCRIPTION "Communication Interface type."

```

```
 ::= { blCtrlrEntry 2 }
```

blCtrlrChannelMask OBJECT-TYPE

```

SYNTAX  Gauge
ACCESS  read-write
STATUS  mandatory
DESCRIPTION
    "Specifies access permissions for this initiator
    in bits 0 through 18
    *****
    -* SCSI Channels *-
    Bit 0 => Is access DISALLOWED to SCSI channel 1 ?
    Bit 1 => Is access DISALLOWED to SCSI channel 2 ?
    Bit 2 => Is access DISALLOWED to SCSI channel 3 ?
    Bit 3 => Is access DISALLOWED to SCSI channel 4 ?
    -* Ultra SCSI Channels *-
    Bit 4 => Is access DISALLOWED to Ultra SCSI channel 1 ?
    Bit 5 => Is access DISALLOWED to Ultra SCSI channel 2 ?
    Bit 6 => Is access DISALLOWED to Ultra SCSI channel 3 ?
    Bit 7 => Is access DISALLOWED to Ultra SCSI channel 4 ?
    Bit 8 => Is access DISALLOWED to Ultra SCSI channel 5 ?
    Bit 9 => Is access DISALLOWED to Ultra SCSI channel 6 ?
    -* Fibre Channel *-

```

```

    Bit 10 => Is access DISALLOWED to Fibre Channel 1 ?
    Bit 11 => Is access DISALLOWED to Fibre Channel 2 ?
    Bit 12 => Is access DISALLOWED to Fibre Channel 3 ?
    Bit 13 => Is access DISALLOWED to Fibre Channel 4 ?
    Bit 14 => Is access DISALLOWED to Fibre Channel 5 ?
    Bit 15 => Is access DISALLOWED to Fibre Channel 6 ?
        -* SSA Channels *-
    Bit 16 => Is access DISALLOWED to SSA channel 1 ?
    Bit 17 => Is access DISALLOWED to SSA Channel 2 ?
    Bit 18 => Is access DISALLOWED to SSA Channel 3 ?"
 ::= { blCtrlEntry 3 }

-- Blade FC Controllers
blFcCtrlTable OBJECT-TYPE
    SYNTAX          SEQUENCE OF BlFcCtrlEntry
    MAX-ACCESS      not-accessible
    STATUS          current
    DESCRIPTION     "Data Appliance Blade Controller Table"
    ::= { bladeInterfaces 4 }

blFcCtrlEntry OBJECT-TYPE
    SYNTAX          BlFcCtrlEntry
    MAX-ACCESS      not-accessible
    STATUS          current
    DESCRIPTION     "Data Appliance Blade FC Controller Information"
    INDEX          { bladeIndex, blCtrlIndex }
    ::= { blFcCtrlTable 1 }

BlFcCtrlEntry ::= SEQUENCE {
    blFcCtrlStatus      FcStatus,
    blFcCtrlMaxSpeed    Gauge,
    blFcCtrlWWPportName DisplayString,
    blFcCtrlLoopID      INTEGER,
    blFcCtrlLoopIDMode   FCPortLoopIdMode ,
    blFcCtrlPortMode     FibrePortMode,
    blFcCtrlConnectionOptions  FibreConnOptions
}

```



```

blFcCtlrStatus    OBJECT-TYPE
    SYNTAX  FcStatus
    ACCESS  read-only
    STATUS  mandatory
    DESCRIPTION
        "Status of the Fibre Channel blade ports."
 ::= { blFcCtlrEntry 1 }
blFcCtlrMaxSpeed  OBJECT-TYPE
    SYNTAX  Gauge
    ACCESS  read-only
    STATUS  mandatory
    DESCRIPTION "Maximum Transfer Speed in MBytes per second."
 ::= { blFcCtlrEntry 2 }
blFcCtlrWWPortName  OBJECT-TYPE
    SYNTAX  DisplayString(SIZE(17))
    ACCESS  read-only
    STATUS  mandatory
    DESCRIPTION
        "World Wide Name of the blade's ports."
 ::= { blFcCtlrEntry 3 }
blFcCtlrLoopID     OBJECT-TYPE
    SYNTAX  INTEGER(-1..127)
    ACCESS  read-only
    STATUS  mandatory
    DESCRIPTION
        "Fibre Channel Loop ID.
         soft = -1"
 ::= { blFcCtlrEntry 4 }
blFcCtlrLoopIDMode  OBJECT-TYPE
    SYNTAX  FCPortLoopIdMode
    ACCESS  read-only
    STATUS  mandatory
    DESCRIPTION
        "Fibre Channel loop ID mode (soft or hard)"
 ::= { blFcCtlrEntry 5 }
blFcCtlrPortMode   OBJECT-TYPE
    SYNTAX  FibrePortMode
    ACCESS  read-only

```

```

STATUS mandatory
DESCRIPTION
    "Fibre Channel port mode."
 ::= { blFcCtlrEntry 6 }
blFcCtlrConnectionOptions OBJECT-TYPE
    SYNTAX FibreConnOptions
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        "Connection options for ISP2200 FC chip.
        Values 4 - 8 are reserved."
 ::= { blFcCtlrEntry 7 }

-- EVPS/Host mapping/management
blHostTable OBJECT-TYPE
    SYNTAX SEQUENCE OF BlHostEntry
    ACCESS not-accessible
    STATUS mandatory
    DESCRIPTION
        ""
    ::= { bladeInterfaces 5 }

blHostEntry OBJECT-TYPE
    SYNTAX BlHostEntry
    ACCESS not-accessible
    STATUS mandatory
    DESCRIPTION " "
    INDEX { bladeIndex, blHostIndex }
    ::= { blHostTable 1 }

BlHostEntry ::= SEQUENCE {
    blHostIndex          INTEGER ,
    blHostWWName         DisplayString ,
    blHostName           DisplayString ,
    blHostType           DisplayString ,
    blHostPortID         DisplayString ,
    blHostITLData        OCTET STRING ,
    blHostLunMap         OCTET STRING

```

}

blHostIndex OBJECT-TYPE

SYNTAX INTEGER

ACCESS read-only

STATUS mandatory

DESCRIPTION "Index into Host Initiator table "

::= { blHostEntry 1 }

blHostWWName OBJECT-TYPE

SYNTAX DisplayString( SIZE( 0 .. 32 ) )

ACCESS read-write

STATUS mandatory

DESCRIPTION "World Wide name of this Initiator. "

::= { blHostEntry 2 }

blHostName OBJECT-TYPE

SYNTAX DisplayString( SIZE( 0 .. 32 ) )

ACCESS read-only

STATUS mandatory

DESCRIPTION "Name for this Initiator. "

::= { blHostEntry 3 }

blHostType OBJECT-TYPE

SYNTAX DisplayString( SIZE( 0 .. 32 ) )

ACCESS read-only

STATUS mandatory

DESCRIPTION "The type of host that is connected to the blade."

::= { blHostEntry 4 }

blHostPortID OBJECT-TYPE

SYNTAX DisplayString( SIZE( 0 .. 32 ) )

ACCESS read-only

STATUS mandatory

DESCRIPTION "The ID of the host port "

::= { blHostEntry 5 }

blHostITLData OBJECT-TYPE

```

SYNTAX OCTET STRING ( SIZE( 256 ) )
ACCESS read-only
STATUS mandatory
DESCRIPTION "Initiator-Target-Logical Unit nexus (ITL) Access
            Control data for this host.  There are 256 possible LUNs
            with 1 byte of data per LUN. "
 ::= { blHostEntry 6 }

blHostLunMap OBJECT-TYPE
    SYNTAX OCTET STRING ( SIZE( 512 ) )
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION "EVPS Map data.  There are 256 possible LUNs
                with 2 bytes of data for each lun"
 ::= { blHostEntry 7 }

-- Host Port failover mapping
blHPFMapTable OBJECT-TYPE
    SYNTAX SEQUENCE OF BlHPFMapEntry
    ACCESS not-accessible
    STATUS mandatory
    DESCRIPTION
        ""
    ::= { bladeInterfaces 6 }

blHPFMapEntry OBJECT-TYPE
    SYNTAX BlHPFMapEntry
    ACCESS not-accessible
    STATUS mandatory
    DESCRIPTION
        " SNMP table for FC Host Port Failover
        Mappings "
    INDEX { bladeIndex, blHPFMapVirtualPort }
    ::= { blHPFMapTable 1 }

BlHPFMapEntry ::= SEQUENCE {
    blHPFMapVirtualPort  INTEGER,      -- The Virtual Port Index,

```

```

blHPFMapPrimaryPort  INTEGER,    -- The port index of the active port

    blHPFMapStandbyList  OCTET STRING ,
                                -- Comma separated list of standby Ports

    blHPFMapActivePort  INTEGER    -- The port index of the active port
}

blHPFMapVirtualPort  OBJECT-TYPE
    SYNTAX  INTEGER
    ACCESS  read-only
    STATUS  mandatory
    DESCRIPTION "The virtual port index. The value is usually the same
                as the physical port index, but will be zero if HPF
                is not configured."
 ::= { blHPFMapEntry 1 }

blHPFMapPrimaryPort  OBJECT-TYPE
    SYNTAX  INTEGER
    ACCESS  read-only
    STATUS  mandatory
    DESCRIPTION "The physical port index that acts as the
                default standby"
 ::= { blHPFMapEntry 2 }

blHPFMapStandbyList  OBJECT-TYPE
    SYNTAX  OCTET STRING (SIZE(256))
    ACCESS  read-only
    STATUS  mandatory
    DESCRIPTION "The comma separated list of ports that are
                configured as standbys for the virtual port
                (excluding the primary port)."
 ::= { blHPFMapEntry 3 }

blHPFMapActivePort  OBJECT-TYPE
    SYNTAX  INTEGER
    ACCESS  read-only
    STATUS  mandatory

```

```

        DESCRIPTION "The physical port that is active on this virtual port"
 ::= { blHPFMapEntry 4 }

blHPFPhysicalTable OBJECT-TYPE
    SYNTAX SEQUENCE OF BlHPFPhysicalEntry
    ACCESS not-accessible
    STATUS mandatory
    DESCRIPTION
        ""
 ::= { bladeInterfaces 7 }

blHPFPhysicalEntry OBJECT-TYPE
    SYNTAX BlHPFPhysicalEntry
    ACCESS not-accessible
    STATUS mandatory
    DESCRIPTION
        " SNMP table for FC Host Port Failover
          Port Settings "
    INDEX { bladeIndex, blHPFPhysicalPort }
 ::= { blHPFPhysicalTable 1 }

BlHPFPhysicalEntry ::= SEQUENCE {
    blHPFPhysicalPort INTEGER,          -- The physical FC port index
    blHPFPhysicalPortFailureType FcHPFPortFailType,
                                        -- If failed, then the type of failure
                                        -- Link-Error/Link-Down/None
    blHPFPhysicalPortCurrentState FcHPFPortState,
                                        -- The state of this physical port
                                        -- online/offline

    blHPFPhysicalPortIntervention Boolean -- If the port requires
intervention?
}

blHPFPhysicalPort OBJECT-TYPE
    SYNTAX INTEGER
    ACCESS read-only
    STATUS mandatory

```

```

        DESCRIPTION "The physical FC port Index.  The available ports are 1,2."
 ::= { blHPFPhysicalEntry 1 }

blHPFPhysicalPortFailureType OBJECT-TYPE
    SYNTAX FchPFPortFailType
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION "If this physical port failed, this field provides the
                 type of failure.Values 0 = None, 1 = Link Down
                 2 = Link Error"
 ::= { blHPFPhysicalEntry 2 }

blHPFPhysicalPortCurrentState OBJECT-TYPE
    SYNTAX FchPFPortState
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION "The current state of this physical port. The values
                 0 = Online, 1 = Offline"
 ::= { blHPFPhysicalEntry 3 }

blHPFPhysicalPortIntervention OBJECT-TYPE
    SYNTAX Boolean
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION "Does this physical port require intervention? Values
                 1 = true, 2 = false"
 ::= { blHPFPhysicalEntry 4 }

-- end blade additions

--
-- NotificationOnlyData is a way to get the payload data across without
-- relating it to other MIB OID's, a dummy OID
    faultyLibLocation OBJECT-TYPE
        SYNTAX      DisplayString
        MAX-ACCESS accessible-for-notify
        STATUS      current
        DESCRIPTION

```

```

        "Place holder for the tape alert traps"
 ::= { tapeLibraryMIBNotificationOnlyData 1 }

--
-- Notifications relating to the basic operation of the agent
-- These are generated by the net-snmp code, so we mirror them here so that it
-- has an equivalent for our enterprise OID.
--

tapeLibNotifyStart          NOTIFICATION-TYPE
STATUS          current
DESCRIPTION
    "An indication that the tape library agent has started running."
 ::= { tapeLibraryMIBNotifications 1 }

tapeLibNotifyShutdown      NOTIFICATION-TYPE
STATUS current
DESCRIPTION
    "An indication that the tape library agent is in the process of
    being shut down."
 ::= { tapeLibraryMIBNotifications 2 }

tapeLibNotifyRestart       NOTIFICATION-TYPE
STATUS          current
DESCRIPTION
    "An indication that the tape library agent has been restarted.
    This does not imply anything about whether the configuration has
    changed or not (unlike the standard coldStart or warmStart traps)"
 ::= { tapeLibraryMIBNotifications 3 }

startupSequenceCompleted NOTIFICATION-TYPE
OBJECTS          {
    librarySerialNumber,
    libraryGlobalStatus
}
STATUS          current
DESCRIPTION      "Notify that the library has completed
                its boot sequence."

```



```

--#TYPE "Startup Sequence Completed"
--#SUMMARY "The library %s has completed its bootup
sequence and is at status %d."
--#ARGUMENTS {0,1}
--#SEVERITY INFORMATIONAL
 ::= { tapeLibraryMIBNotifications 101 }

```

shutdownSequenceInitiated NOTIFICATION-TYPE

```

OBJECTS          {
    librarySerialNumber,
    libraryGlobalStatus
}
STATUS           current
DESCRIPTION      "Notify that the library has started its
reboot sequence."
--#TYPE "Shutdown Sequence Initiated"
--#SUMMARY "The library %s has initiated shutdown
sequence and is at status %d."
--#ARGUMENTS {0,1}
--#SEVERITY INFORMATIONAL
 ::= { tapeLibraryMIBNotifications 102 }

```

phLibrayStateChange NOTIFICATION-TYPE

```

OBJECTS          {
    librarySerialNumber,
    physicalLibraryState
}
STATUS           current
DESCRIPTION      "Notify that the online state of the physical library
changed."
--#TYPE "Change in Online state of the Physical Library"
--#SUMMARY "The library %s has changed its online
state and is at state %d."
--#ARGUMENTS {0,1}
--#SEVERITY INFORMATIONAL
 ::= { tapeLibraryMIBNotifications 103 }

```

moduleDoorStatusChange NOTIFICATION-TYPE

```

OBJECTS          {
    librarySerialNumber,
    aggregatedMainDoorStatus
}
STATUS           current
DESCRIPTION       "Notify that the status of the module door changed."
                 --#TYPE "Change in main Chassis door status"
                 --#SUMMARY "The Main chassis door of the library %s
has changed status to %d."
                 --#ARGUMENTS {0,1}
                 --#SEVERITY INFORMATIONAL
 ::= { tapeLibraryMIBNotifications 104 }

ieDoorStatusChange NOTIFICATION-TYPE
OBJECTS          {
    librarySerialNumber,
    aggregatedIEDoorStatus
}
STATUS           current
DESCRIPTION       "Notify that the status of IE Door of a module changed."
                 --#TYPE "Change in IE door status"
                 --#SUMMARY "The IE door of the library %s has changed
status to %d."
                 --#ARGUMENTS {0,1}
                 --#SEVERITY INFORMATIONAL
 ::= { tapeLibraryMIBNotifications 105 }

roboticsReady NOTIFICATION-TYPE
OBJECTS          {
    librarySerialNumber
}
STATUS           current
DESCRIPTION       "Notify that the robot is ready."
                 --#TYPE "Robotics changed state to ready"
                 --#SUMMARY "The Robotics of the library %s has become
ready."
                 --#ARGUMENTS {0}
                 --#SEVERITY INFORMATIONAL
 ::= { tapeLibraryMIBNotifications 106 }

```

```

roboticsNotReady NOTIFICATION-TYPE
    OBJECTS          {
        librarySerialNumber
    }
    STATUS            current
    DESCRIPTION       "Notify when robot is not ready."
                    --#TYPE "Robotics changed state to not ready"
                    --#SUMMARY "The Robotics of the library %s has become
not ready."
                    --#ARGUMENTS {0}
                    --#SEVERITY INFORMATIONAL
    ::= { tapeLibraryMIBNotifications 107 }

logicalLibraryStateChange NOTIFICATION-TYPE
    OBJECTS          {
        logicalLibraryName,
        librarySerialNumber,
        logicalLibraryState
    }
    STATUS            current
    DESCRIPTION       "Notify when logical library online state changed."
                    --#TYPE "Partition changed online state"
                    --#SUMMARY "The Partition %s of the library %s has
changed the online state and online state is at %d."
                    --#ARGUMENTS {0,1,2}
                    --#SEVERITY INFORMATIONAL
    ::= { tapeLibraryMIBNotifications 108 }

connectivityStatusChange NOTIFICATION-TYPE
    OBJECTS          {
        librarySerialNumber,
        connectivityStatus
    }
    STATUS            current
    DESCRIPTION       "Notify when connectivity health status changed."
                    --#TYPE "RAS status of the Connectivity SubSystem Changed"
                    --#SUMMARY "The Connectivity Subsystem of the library
%s has changed the RAS status and the RAS status is at %d."

```

```

--#ARGUMENTS {0,1}
--#SEVERITY INFORMATIONAL
 ::= { tapeLibraryMIBNotifications 109 }

controlStatusChange NOTIFICATION-TYPE
OBJECTS          {
    librarySerialNumber,
    controlStatus
}
STATUS           current
DESCRIPTION      "Notify when control health status changed."
--#TYPE "RAS status of the Control SubSystem Changed"
--#SUMMARY "The Control Subsystem of the library %s
has changed the RAS status and the RAS status is at %d."
--#ARGUMENTS {0,1}
--#SEVERITY INFORMATIONAL
 ::= { tapeLibraryMIBNotifications 110 }

coolingStatusChange NOTIFICATION-TYPE
OBJECTS          {
    librarySerialNumber,
    coolingStatus
}
STATUS           current
DESCRIPTION      "Notify on cooling health status change."
--#TYPE "RAS status of the Cooling SubSystem Changed"
--#SUMMARY "The Cooling Subsystem of the library %s
has changed the RAS status and the RAS status is at %d."
--#ARGUMENTS {0,1}
--#SEVERITY INFORMATIONAL
 ::= { tapeLibraryMIBNotifications 111 }

driveStatusChange NOTIFICATION-TYPE
OBJECTS          {
    librarySerialNumber,
    phDriveRasStatus
}
STATUS           current
DESCRIPTION      "Notify on drive health status change."

```

```

--#TYPE "RAS status of the Drive SubSystem Changed"
--#SUMMARY "The Drive Subsystem of the library %s
has changed the RAS status and the RAS status is at %d."
--#ARGUMENTS {0,1}
--#SEVERITY INFORMATIONAL
::= { tapeLibraryMIBNotifications 112 }

```

mediaStatusChange NOTIFICATION-TYPE

```

OBJECTS          {
    librarySerialNumber,
    mediaStatus
}
STATUS           current
DESCRIPTION      "Notify on media health status change."
--#TYPE "RAS status of the Media SubSystem Changed"
--#SUMMARY "The Media Subsystem of the library %s
has changed the RAS status and the RAS status is at %d."
--#ARGUMENTS {0,1}
--#SEVERITY INFORMATIONAL
::= { tapeLibraryMIBNotifications 113 }

```

powerStatusChange NOTIFICATION-TYPE

```

OBJECTS          {
    librarySerialNumber,
    powerStatus
}
STATUS           current
DESCRIPTION      "Notify voltage health status change."
--#TYPE "RAS status of the Power SubSystem Changed"
--#SUMMARY "The Power Subsystem of the library %s
has changed the RAS status and the RAS status is at %d."
--#ARGUMENTS {0,1}
--#SEVERITY INFORMATIONAL
::= { tapeLibraryMIBNotifications 114 }

```

roboticsStatusChange NOTIFICATION-TYPE

```

OBJECTS          {
    librarySerialNumber,
    roboticsStatus
}

```

```

}
STATUS          current
DESCRIPTION     "Notify robotics health status change."
                --#TYPE "RAS status of the Robotics SubSystem Changed"
                --#SUMMARY "The Robotics Subsystem of the library
%s has changed the RAS status and the RAS status is at %d."
                --#ARGUMENTS {0,1}
                --#SEVERITY INFORMATIONAL
 ::= { tapeLibraryMIBNotifications 115 }

```

operatorInterventionRequired NOTIFICATION-TYPE

```

OBJECTS        {
    librarySerialNumber,
    libraryGlobalStatus
}
STATUS          current
DESCRIPTION     "Notify that a operator intervention required."
                --#TYPE "Operator intervention is required"
                --#SUMMARY "The library %s requires operator's
intervention and the global RAS status is at %d."
                --#ARGUMENTS {0,1}
                --#SEVERITY CRITICAL
 ::= { tapeLibraryMIBNotifications 116 }

```

driveOnlineStateChange NOTIFICATION-TYPE

```

OBJECTS        {
    phDriveVendor,
    phDriveModel,
    phDriveSerialNumber,
    phDriveLocation,
    librarySerialNumber,
    phDriveState
}
STATUS          current
DESCRIPTION     "Notify when drive online state changed."
                --#TYPE "Drive changed online state"
                --#SUMMARY "The Drive %s %s %s in location %s of the
library %s has changed the online state and online state is at %d."
                --#ARGUMENTS {0,1,2,3,4,5}

```

```

--#SEVERITY INFORMATIONAL

::= { tapeLibraryMIBNotifications 117 }

libraryTapeAlert1 NOTIFICATION-TYPE
  OBJECTS {
    faultyLibLocation,
    librarySerialNumber
  }
  STATUS          current
  DESCRIPTION     "Notification that the library set Tape Alert 1,
                  indicating a drive communication failure."
    --#TYPE "Drive communication failure"
    --#SUMMARY "A tape drive communication failure occurred
drive %s in library %s."
    --#ARGUMENTS {0,1}
    --#SEVERITY CRITICAL
  ::= { tapeLibraryMIBNotifications 121 }

libraryTapeAlert2 NOTIFICATION-TYPE
  OBJECTS {
    librarySerialNumber,
    libraryGlobalStatus
  }
  STATUS          current
  DESCRIPTION     "Notification that the library set Tape Alert 2,
                  indicating a hardware failure."
    --#TYPE "Library hardware failure"
    --#SUMMARY "Library %s encountered a hardware failure.
Global RAS status = %d."
    --#ARGUMENTS {0,1}
    --#SEVERITY CRITICAL
  ::= { tapeLibraryMIBNotifications 122 }

libraryTapeAlert4 NOTIFICATION-TYPE
  OBJECTS {
    librarySerialNumber,
    libraryGlobalStatus
  }
  STATUS          current

```

```

DESCRIPTION          "Notification that the library set Tape Alert 4,
                      indicating a non-mechanical hardware failure."
                      --#TYPE "A non-mechanical library hardware failure occurred"
                      --#SUMMARY "Library %s encountered a non-mechanical
hardware failure. Global RAS status = %d."
                      --#ARGUMENTS {0,1}
                      --#SEVERITY CRITICAL
 ::= { tapeLibraryMIBNotifications 124 }

```

```
libraryTapeAlert13 NOTIFICATION-TYPE
```

```

OBJECTS {
    faultyLibLocation,
    librarySerialNumber
}
STATUS          current
DESCRIPTION     "Notification that the library set Tape Alert 13,
                indicating a problem when picking a tape cartridge."
                --#TYPE "Cartridge pick problem"
                --#SUMMARY "A cartridge pick retry occurred at location %s
in library %s."
                --#ARGUMENTS {0,1}
                --#SEVERITY WARNING
 ::= { tapeLibraryMIBNotifications 133 }

```

```
libraryTapeAlert14 NOTIFICATION-TYPE
```

```

OBJECTS {
    faultyLibLocation,
    librarySerialNumber
}
STATUS          current
DESCRIPTION     "Notification that the library set Tape Alert 14,
                indicating a problem when placing a tape cartridge."
                --#TYPE "Cartridge placement problem"
                --#SUMMARY "A cartridge placement retry occurred at location
%s in library %s."
                --#ARGUMENTS {0,1}
                --#SEVERITY WARNING
 ::= { tapeLibraryMIBNotifications 134 }

```



```

libraryTapeAlert15 NOTIFICATION-TYPE
    OBJECTS {
        faultyLibLocation,
        librarySerialNumber
    }
    STATUS          current
    DESCRIPTION     "Notification that the library set Tape Alert 15,
                    indicating a problem when loading a drive."
                    --#TYPE "Drive load problem"
                    --#SUMMARY "A drive load problem occurred at drive %s in
library %s."
                    --#ARGUMENTS {0,1}
                    --#SEVERITY CRITICAL
    ::= { tapeLibraryMIBNotifications 135 }

libraryTapeAlert16 NOTIFICATION-TYPE
    OBJECTS {
        librarySerialNumber
    }
    STATUS          current
    DESCRIPTION     "Notification that the library set Tape Alert 16,
                    indicating an open library access door."
                    --#TYPE "Library main access door open"
                    --#SUMMARY "A main access door is open in library %s."
                    --#ARGUMENTS {0}
                    --#SEVERITY CRITICAL
    ::= { tapeLibraryMIBNotifications 136 }

libraryTapeAlert17 NOTIFICATION-TYPE
    OBJECTS {
        faultyLibLocation,
        librarySerialNumber
    }
    STATUS          current
    DESCRIPTION     "Notification that the library set Tape Alert 17,
                    indicating a mailbox station mechanical problem."
                    --#TYPE "Mailbox mechanical problem"
                    --#SUMMARY "A mechanical mailbox problem occurred at
location %s of library %s."

```

```

--#ARGUMENTS {0,1}
--#SEVERITY CRITICAL
 ::= { tapeLibraryMIBNotifications 137 }

libraryTapeAlert23 NOTIFICATION-TYPE
OBJECTS {
    faultyLibLocation,
    librarySerialNumber
}
STATUS          current
DESCRIPTION     "Notification that the library set Tape Alert 23,
                indicating that excessive scan retries occurred."
--#TYPE "Excessive scan retries"
--#SUMMARY "Scan retries occurred in location %s of
library %s."
--#ARGUMENTS {0,1}
--#SEVERITY WARNING
 ::= { tapeLibraryMIBNotifications 143 }

libraryTapeAlert32 NOTIFICATION-TYPE
OBJECTS {
    faultyLibLocation,
    librarySerialNumber
}
STATUS          current
DESCRIPTION     "Notification that the library set Tape Alert 32,
                indicating that a tape cartridge barcode label
                could not be read."
--#TYPE "Barcode label un-readable"
--#SUMMARY "A tape cartridge barcode label in location
%s of library %s cannot be read."
--#ARGUMENTS {0,1}
--#SEVERITY INFORMATIONAL
 ::= { tapeLibraryMIBNotifications 152 }

-- conformance information

tapeLibraryMIBConformance OBJECT IDENTIFIER ::= { tapeLibraryMIB 4 }
tapeLibraryMIBCompliances OBJECT IDENTIFIER ::= { tapeLibraryMIBConformance 1 }

```

```

tapeLibraryMIBGroups      OBJECT IDENTIFIER ::= { tapeLibraryMIBConformance 2 }

-- compliance statements

tapeLibraryMIBCompliance MODULE-COMPLIANCE
    STATUS      current
    DESCRIPTION
        "The compliance statement for entities which implement
        Tape Library MIB"
    MODULE      -- this module
        MANDATORY-GROUPS { tapeLibraryMIBGroup,
                            tapeLibraryMIBNotifGroup }
    ::= { tapeLibraryMIBCompliances 1 }

-- units of conformance

tapeLibraryMIBGroup OBJECT-GROUP
OBJECTS {
    libraryIpAddress,
    librarySNMPAgentDescription,
    libraryName,
    libraryVendor,
    librarySerialNumber,
    libraryDescription,
    libraryModel,
    libraryGlobalStatus,

    overallPhDriveReadinessStatus,
    numPhDrives,

    phDriveSerialNumber,
    phDriveModel,
    phDriveVendor,
    phDriveType,
    phDriveLocation,

```

phDriveFirmwareVersion,  
phDriveLogicalLibraryName,  
phDriveLibrarySerialNumber,  
phDriveState,  
phDriveRasStatus,  
phDriveNeedsCleaning,  
phDriveInterfaceType,  
phDriveScsiLun,  
phDriveScsiId,  
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logicalLibrarySerialNumber,  
logicalLibraryModel,  
logicalLibraryAssignedLun,  
logicalLibraryMediaDomain,  
logicalLibrarySupportedMediaTypes,  
logicalLibraryState,  
logicalLibraryNumSlots,  
logicalLibraryNumIE,  
logicalLibraryNumTapeDrives,  
logicalLibraryStorageElemAddr,  
logicalLibraryIEElemAddr,  
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powerStatus,  
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aggregatedIEDoorStatus,  
numStorageSlots,  
numIESlots,  
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fcPortType,  
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fcPortDriveSerialNumber,  
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scsiControllerMaxIds,  
scsiControllerMaxLuns,  
scsiControllerMaxWidth,  
scsiControllerFWRev,  
scsiControllerDriveSerialNumber,  
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sasPortIndex,  
sasPortAddress,  
sasPortRasStatus,  
sasPortNegotiatedSpeed,  
sasPortFWRev,  
sasPortDriveSerialNumber,  
sasPortLogicalLibrarySN,

```
-- start blade additions
-- blade top-level
bladeIndex,
bladeLocation,
bladeIP,
bladeWWNodeName,
bladeHealthCheckValue,
bladeHealthCheckInterval,
bladeHealthCheckLevel,
bladeFWRev,
bladeSerialNumber,
bladeEVPSEnabled,
bladeMaxHostLun,
bladeState,
blHPFLinkDownThreshold,
blHPFErrorRecoveryMode,
blHPFLinkDownRecoveryMode,

-- devices /blade level
blDevIndex,
blDevUID,
blDevType,
blDevVendor,
blDevProduct,
blDevSerial,
blDevInterfaceType,
blDevLun,
blDevCtlrIndex,
blDevFWRev,
blDevTargetLun,

-- controllers /blade level
blCtlrIndex,
blCtlrType,
blCtlrChannelMask,

-- FC controllers /blade/controllers level
```

```

blFcCtlrStatus,
blFcCtlrMaxSpeed,
blFcCtlrWWPortName,
blFcCtlrLoopID,
blFcCtlrLoopIDMode ,
blFcCtlrPortMode,
blFcCtlrConnectionOptions,

-- EVPS
blHostIndex,
blHostWWName,
blHostName,
blHostType,
blHostPortID,
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blHPFMapVirtualPort,
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blHPFMapStandbyList,
blHPFMapActivePort,

blHPFPhysicalPort,
blHPFPhysicalPortFailureType,
blHPFPhysicalPortCurrentState,
blHPFPhysicalPortIntervention,

-- end blade additions
faultLibLocation
}

STATUS current
DESCRIPTION
    "A collection of objects providing Tape Library Management
    capability."
::= { tapeLibraryMIBGroups 1 }

```

tapeLibraryMIBNotifGroup NOTIFICATION-GROUP

NOTIFICATIONS {

tapeLibNotifyStart,  
tapeLibNotifyShutdown,  
tapeLibNotifyRestart,  
startupSequenceCompleted,  
shutdownSequenceInitiated,  
phLibrayStateChange,  
moduleDoorStatusChange,  
ieDoorStatusChange,  
roboticsReady,  
roboticsNotReady,  
logicalLibraryStateChange,  
connectivityStatusChange,  
controlStatusChange,  
coolingStatusChange,  
driveStatusChange,  
mediaStatusChange,  
powerStatusChange,  
roboticsStatusChange,  
operatorInterventionRequired,  
driveOnlineStateChange,  
libraryTapeAlert1,  
libraryTapeAlert2,  
libraryTapeAlert4,  
libraryTapeAlert13,  
libraryTapeAlert14,  
libraryTapeAlert15,  
libraryTapeAlert16,  
libraryTapeAlert17,  
libraryTapeAlert23,  
libraryTapeAlert32

}

STATUS current

DESCRIPTION

"A collection of objects providing Tape Library Management



```
        capability."  
 ::= { tapeLibraryMIBGroups 2 }
```

```
END
```

```
--
```



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