



# Quantum Scalar i500 Tape Library

# Scalar i500

Scalar i500 Basic SNMP Reference Guide, 6-01370-04, Ver. A, July 2008, Made in USA.

Quantum Corporation provides this publication “as is” without warranty of any kind, either express or implied, including but not limited to the implied warranties of merchantability or fitness for a particular purpose. Quantum Corporation may revise this publication from time to time without notice.

#### **COPYRIGHT STATEMENT**

Copyright 2008 by Quantum Corporation. All rights reserved.

Your right to copy this manual is limited by copyright law. Making copies or adaptations without prior written authorization of Quantum Corporation is prohibited by law and constitutes a punishable violation of the law.

#### **TRADEMARK STATEMENT**

Quantum, the Quantum logo, and Scalar are registered trademarks of Quantum Corporation in the USA and other countries. LTO and Ultrium are trademarks of HP, IBM and Quantum in the USA and other countries.

All other trademarks are the property of their respective companies.

# Contents

---

1 About This Guide and Your Product	1
Explanation of Symbols and Notes	1
Other Documents You Might Need	2
Contact Information	2
Getting More Information or Help	2

---

2 Description	3
SNMP Functionality Available to Remote Applications	3
Accessing SNMP Information	3
SNMPv3	4
SNMP Traps	4
SNMP Queries	4
SNMP Community Strings	5
SNMP Authentication Traps	5

---

3 MIB Variables - IPv6 Information	7
IPv6 Forwarding	7
IPv6 Default Hop Limit	8
IPv6 Interfaces	8
IPv6 Interface Description	9
IPv6 Interface Lower Layer	9
IPv6 Effective Maximum Transmission Unit	10
IPv6 Interface Physical Address	10
IPv6 Interface Admin Status	11
IPv6 Interface Operational Status	11

---

4 MIB Variables - Drive Information	13
Physical Drive Information	13
Physical Drive Readiness	13
Physical Drive Serial Number	14
Physical Drive Model	14
Physical Drive Vendor	15
Physical Drive Type	15

Physical Drive Location	15
Physical Drive Firmware	16
Physical Drive Logical Library Name	16
Physical Drive Library Serial Number	17
Physical Drive State	17
Physical Drive Health Status	18
Physical Drive Cleaning Status	18
Physical Drive Interface Type	19
Physical Drive SCSI LUN	19
Physical Drive SCSI ID	20
Physical Drive Loads	20
Physical Drive Physical Serial Number	21
Library Interfaces - Fibre Channel	21
Fibre Channel Port Type	21
Fibre Channel Port World Wide Node Name	22
Fibre Channel Port World Wide Port Name (WWPN)	22
Fibre Channel Port Loop ID	22
Fibre Channel Port Loop ID Mode	23
Fibre Channel Port ID	23
Fibre Channel Port Negotiated Speed	24
Fibre Channel Port RAS Status	24
Fibre Channel Port Firmware Revision	25
Fibre Channel Port Frame Size	25
Fibre Channel Port Drive Serial Number	26
Fibre Channel Port Logical Library Serial Number	26
Library Interfaces - SAS	27
SAS Port World Wide Name	27
SAS Port RAS Status	27
SAS Port Negotiated Speed	28
SAS Port Firmware Revision	28
SAS Port Drive Serial Number	29
SAS Port Logical Library Serial Number	29
Library Interfaces - SCSI	30
SCSI Controller RAS Status	30
SCSI Controller Speed	30
SCSI Controller Role	31
SCSI Controller I/O Card	31
SCSI Controller Maximum IDs	32
SCSI Controller Maximum LUNs	32
SCSI Controller Maximum Width	32
SCSI Controller Firmware Revision	33
SCSI Controller Drive Serial Number	33
SCSI Controller Logical Library Serial Number	34

---

## 5 MIB Variables - Library System Information 35

Tape Library System	35
Library IP Address	35
Library SNMP Agent Description	36
Library Name	36
Library Vendor	37
Library Serial Number	37
Library Description	37
Library Model	38
Library Global Status	38

Library URL . . . . .	39
Library Product Name . . . . .	39
Library Firmware Version . . . . .	40
Physical Library . . . . .	40
Physical Library State . . . . .	40
Aggregated Main Door Status . . . . .	41
Aggregated Import Export (I/E) Door Status . . . . .	41
Number of Storage Slogs . . . . .	42
Number of I/E Slots . . . . .	42
Number of Physical Drives . . . . .	43
Robot State . . . . .	43
Logical Library . . . . .	43
Number of Logical Libraries . . . . .	43
Logical Library Name . . . . .	44
Logical Library Serial Number . . . . .	44
Logical Library Model . . . . .	45
Logical Library Assigned LUN . . . . .	45
Logical Library Media Domain . . . . .	46
Logical Library Supported Media Types . . . . .	46
Logical Library State . . . . .	47
Logical Library Number of Slots . . . . .	47
Logical Library Number of I/E Slots . . . . .	48
Logical Library Number of Tape Drives . . . . .	48
Logical Library Storage Element Address . . . . .	49
Logical Library I/E Element Address . . . . .	49
Logical Library Tape Drive Element Address . . . . .	49
Logical Library Changer Device Address . . . . .	50
Fibre Channel I/O Blade Interfaces . . . . .	50
Blade Table . . . . .	50
Blade Index . . . . .	50
Blade Location . . . . .	51
Blade IP . . . . .	51
Blade World Wide Node Name . . . . .	52
Blade Health Check Value . . . . .	52
Blade Health Check Level . . . . .	53
Blade Health Check Interval . . . . .	53
Blade Firmware Revision . . . . .	54
Blade Serial Number . . . . .	54
Blade EVPS Enabled . . . . .	55
Blade Maximum Host Lun . . . . .	55
Blade State . . . . .	56
Blade Host Port Failover Link Down Threshold . . . . .	56
Blade Host Port Failover Error Recovery Mode . . . . .	57
Blade Host Port Failover Link Down Recovery Mode . . . . .	57
Blade Dev Entry . . . . .	58
Blade Device Index . . . . .	58
Blade Device Universal Identifier . . . . .	58
Blade Device Type . . . . .	58
Blade Device Vendor . . . . .	59
Blade Device Product . . . . .	59
Blade Device Serial . . . . .	60
Blade Device Interface Type . . . . .	60
Blade Device LUN . . . . .	61
Blade Device Controller Index . . . . .	61
Blade Device Firmware Revision . . . . .	62
Blade Device Target LUN . . . . .	62

Blade Controller Table . . . . .	63
Blade Controller Index . . . . .	63
Blade Controller Type . . . . .	63
Blade Controller Channel Mask . . . . .	64
Blade Fibre Channel Controller Entry . . . . .	65
Blade Fibre Channel Controller Status . . . . .	65
Blade Fibre Channel Controller Maximum Speed . . . . .	65
Blade Fibre Channel Controller World Wide Port Name . . . . .	66
Blade Fibre Channel Controller Loop ID . . . . .	66
Blade Fibre Channel Controller Loop ID Mode . . . . .	67
Blade Fibre Channel Controller Port Mode . . . . .	67
Blade Fibre Channel Controller Connection Options . . . . .	67
Blade Host Table . . . . .	68
Blade Host Index . . . . .	68
Blade Host World Wide Name . . . . .	68
Blade Host Name . . . . .	69
Blade Host Type . . . . .	69
Blade Host Port ID . . . . .	70
Blade Host ITL Data . . . . .	70
Blade Host LUN Map . . . . .	71
Blade Host Port Failover Map Entry . . . . .	71
Blade Host Port Failover Map Virtual Port . . . . .	71
Blade Host Port Failover Map Primary Port . . . . .	72
Blade Host Port Failover Map Standby List . . . . .	72
Blade Host Port Failover Map Active Port . . . . .	73
Blade Host Port Failover Physical Table . . . . .	73
Blade Host Port Failover Physical Port . . . . .	73
Blade Host Port Failover Physical Port Failure Type . . . . .	74
Blade Host Port Failover Physical Port Current State . . . . .	74
Blade Host Port Failover Physical Port Intervention . . . . .	74

---

## 6 MIB Variables - RAS Subsystem 77

Power Status . . . . .	77
Cooling Status . . . . .	77
Control Status . . . . .	78
Connectivity Status . . . . .	78
Robotics Status . . . . .	79
Media Status . . . . .	79
Drive Status . . . . .	80
Operator Action Request . . . . .	80

---

## 7 SNMP Traps 83

---

## A MIBs Implemented 87

Quantum Tape Library MIB . . . . .	87
Reference MIBs . . . . .	87
Quantum Library MIB Content . . . . .	88

## About This Guide and Your Product

---

This guide is for library customers, partners, third party management software developers, and other parties interested in integrating the Scalar® i500 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 Scalar i500 library 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 *Scalar i500 library* itself, refer to the *Scalar i500 Tape Library User's Guide*.

The Scalar i500 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

---

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



**WARNING**

**INDICATES A POTENTIALLY HAZARDOUS SITUATION WHICH, IF NOT AVOIDED, COULD RESULT IN DEATH OR BODILY INJURY.**



**CAUTION**

**Indicates a situation that may cause possible damage to equipment, loss of data, or interference with other equipment.**



**Note**

Indicates important information that helps you make better use of your system.

## Other Documents You Might Need

---

The following document is also available for this product. This document can be found on the product documentation CD or at [www.quantum.com/support](http://www.quantum.com/support).

- *Scalar i500 User's Guide (6-01210-xx)*

## Contact Information

---

### **Quantum Corporate Headquarters**

Quantum Corporation Headquarters  
1650 Technology Drive, Suite 700  
San Jose, CA 95110-1382

### **Technical Publications**

Provide documentation feedback at:

[docs-comments@quantum.com](mailto:docs-comments@quantum.com)

## Getting More Information or Help

---

More information about this product is available on the Service and Support website at [www.quantum.com/support](http://www.quantum.com/support). The Service and Support Website contains a collection of information, including answers to frequently asked questions (FAQs). You can also access software, firmware, and drivers through this site.

For further assistance, or if training is desired, contact Quantum:

Global Call Handling	1-800-284-5101
For additional contact information:	<a href="http://www.quantum.com/support">www.quantum.com/support</a>
To open a Service Request:	<a href="http://www.quantum.com/osr">www.quantum.com/osr</a>
Quantum Corporation	<a href="http://www.quantum.com">www.quantum.com</a>

For the most updated information on Quantum Global Services, please visit [www.quantum.com/support](http://www.quantum.com/support).

.

# 2

## Description

---

Simple Network Management Protocol (SNMP) is a light-weight protocol designed for remote management and monitoring of infrastructure devices. The Scalar i500 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 Scalar i500 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

---

The Scalar i500 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 Scalar i500.

All Scalar i500 MIB variables are supported by Quantum for remote management of the library.

Specific Scalar i500 SNMP characteristics include:

- Support for SNMP v1, v2c, and v3
- SMIv2 compliance only
- Usage of port 161 for GET queries
- Support for SNMP v1 traps
- 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

---

SNMP information can be obtained from the Scalar i500 using traps and GET queries. Using the information contained in this guide, library administrators can configure their framework application to generate alerts to receive Scalar i500 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 Scalar i500 supports SNMP version 1 and version 2c, 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 *Scalar i500 User's Guide* or the relevant Scalar i500 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.

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

- 1 Configure your framework application to collect traps from the Scalar i500.
- 2 Using the library's **SNMP Trap Registrations** feature, register the host's IP address, transport protocol, and UDP port number.

Registration informs the Scalar i500 to send traps to the host.

For additional details about registering a host with the Scalar i500, refer to the *Scalar i500 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 a Scalar i500 is online, access the MIB variable for logical library online status and select the instance for partition 2.

# SNMP Community Strings

---

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 read-only 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

---

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 - IPv6 Information

---

You can poll the following variables to obtain information about IPv6 on the library.



Note

All variables share the same object ID (OID) prefix of: 1.3.6.1.2.1.55.1

### IPv6 Forwarding

---

**Name:** ipv6Forwarding

**Type:** OBJECT-TYPE

**OID:** 1.3.6.1.2.1.55.1.1

**Full path:** iso(1).org(3).dod(6).internet(1).mgmt(2).mib-2(1).ipv6MIB(55).ipv6MIBObjects(1).ipv6Forwarding(1)

**Module:** IPV6-MIB

**Parent:** ipv6MIBObjects

**Next sibling:** ipv6DefaultHopLimit

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

**Base syntax:** INTEGER

**Composed syntax:** INTEGER

**Status:** current

**Max access:** read-write

**Value list:**

1: forwarding(1)

2: notForwarding(2)

**Description:**The indication of whether this entity is acting as an IPv6 router with respect to the forwarding of datagrams received by, but not addressed to, this entity. IPv6 routers forward datagrams. IPv6 hosts do not (except those source-routed via the host).

Note that for some managed nodes, this object may take on only a subset of the values possible. Accordingly, it is appropriate for an agent to return a "wrongValue" response if a management station attempts to change this object to an inappropriate value.

## IPv6 Default Hop Limit

---

Name: ipv6DefaultHopLimit

Type: OBJECT-TYPE

OID: 1.3.6.1.2.1.55.1.2

Full path: iso(1).org(3).dod(6).internet(1).mgmt(2).mib-2(1).ipv6MIB(55).ipv6MIBObjects(1).ipv6DefaultHopLimit(2)

Module: IPV6-MIB

Parent: ipv6MIBObjects

Prev sibling: ipv6Forwarding

Next sibling: ipv6Interfaces

Numerical syntax: Integer (32 bit)

Base syntax: INTEGER

Composed syntax: INTEGER

Status: current

Max access: read-write

Size list: 1: 0..255

Default values: 1: 64

Description: The default value inserted into the Hop Limit field of the IPv6 header of datagrams originated at this entity, whenever a Hop Limit value is not supplied by the transport layer protocol.

## IPv6 Interfaces

---

**Name:** ipv6Interfaces

**Type:** OBJECT-TYPE

**OID:** 1.3.6.1.2.1.55.1.3

**Full path:** iso(1).org(3).dod(6).internet(1).mgmt(2).mib-2(1).ipv6MIB(55).ipv6MIBObjects(1).ipv6Interfaces(3)

**Module:** IPV6-MIB

**Parent:** ipv6MIBObjects

**Prev sibling:** ipv6DefaultHopLimit

**Next sibling:** ipv6IfTableLastChange

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

**Base syntax:** Unsigned32

**Composed syntax:** Unsigned32

**Status:** current

**Max access:** read-only

**Description:** The number of IPv6 interfaces (regardless of their current state) present on this system.

## IPv6 Interface Description

---

**Name:** ipv6IfDescr

**Type:** OBJECT-TYPE

**OID:** 1.3.6.1.2.1.55.1.5.1.2

**Full path:** iso(1).org(3).dod(6).internet(1).mgmt(2).mib-2(1).ipv6MIB(55).ipv6MIBObjects(1).ipv6IfTable(5).ipv6IfEntry(1).ipv6IfDescr(2)

**Module:** IPV6-MIB

**Parent:** ipv6IfEntry

**Prev sibling:** ipv6IfIndex

**Next sibling:** ipv6IfLowerLayer

**Numerical syntax:** Octets

**Base syntax:** OCTET STRING

**Composed syntax:** DisplayString

**Status:** current

**Max access:** read-write

**Description:** A textual string containing information about the interface. This string may be set by the network management system.

## IPv6 Interface Lower Layer

---

**Name:** ipv6IfLowerLayer

**Type:** OBJECT-TYPE

**OID:** 1.3.6.1.2.1.55.1.5.1.3

**Full path:** iso(1).org(3).dod(6).internet(1).mgmt(2).mib-2(1).ipv6MIB(55).ipv6MIBObjects(1).ipv6IfTable(5).ipv6IfEntry(1).ipv6IfLowerLayer(3)

**Module:** IPV6-MIB

**Parent:** ipv6IfEntry

**Prev sibling:** ipv6IfDescr

**Next sibling:** ipv6IfEffectiveMtu

**Numerical syntax:** Object Identifier

**Base syntax:** OBJECT IDENTIFIER

**Composed syntax:** VariablePointer

**Status:** current

**Max access:** read-only

**Description:** This object identifies the protocol layer over which this network interface operates.

- If this network interface operates over the data-link layer, then the value of this object refers to an instance of ifIndex [6].
- If this network interface operates over an IPv4 interface, the value of this object refers to an instance of ipAdEntAddr [3].

- If this network interface operates over another IPv6 interface, the value of this object refers to an instance of ipv6IfIndex.
- If this network interface is not currently operating over an active protocol layer, then the value of this object should be set to the OBJECT ID 0 0 .

## IPv6 Effective Maximum Transmission Unit

---

**Name:** ipv6IfEffectiveMtu

**Type:** OBJECT-TYPE

**OID:** 1.3.6.1.2.1.55.1.5.1.4

**Full path:** iso(1).org(3).dod(6).internet(1).mgmt(2).mib-2(1).ipv6MIB(55).ipv6MIBObjects(1).ipv6IfTable(5).ipv6IfEntry(1).ipv6IfEffectiveMtu(4)

**Module:** IPV6-MIB

**Parent:** ipv6IfEntry

**Prev sibling:** ipv6IfLowerLayer

**Next sibling:** ipv6IfReasmMaxSize

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

**Base syntax:** Unsigned32

**Composed syntax:** Unsigned32

**Status:** current

**Max access:** read-only

**Units:** Octets

**Description:** The size of the largest IPv6 packet which can be sent/received on the interface, specified in octets.

## IPv6 Interface Physical Address

---

**Name:** ipv6IfPhysicalAddress

**Type:** OBJECT-TYPE

**OID:** 1.3.6.1.2.1.55.1.5.1.8

**Full path:** iso(1).org(3).dod(6).internet(1).mgmt(2).mib-2(1).ipv6MIB(55).ipv6MIBObjects(1).ipv6IfTable(5).ipv6IfEntry(1).ipv6IfPhysicalAddress(8)

**Module:** IPV6-MIB

**Parent:** ipv6IfEntry

**Prev sibling:** ipv6IfIdentifierLength

**Next sibling:** ipv6IfAdminStatus

**Numerical syntax:** Octets

**Base syntax:** OCTET STRING

**Composed syntax:** PhysAddress

**Status:** current

**Max access:** read-only

**Description:** The interface's physical address. For example, for an IPv6 interface attached to an 802.x link, this object normally contains a MAC address. Note that in some cases this address may differ from the address of the interface's protocol sub-layer. The interface's media-specific MIB must define the bit and byte ordering and the format of the value of this object. For interfaces which do not have such an address (for example, a serial line), this object should contain an octet string of zero length.

## IPv6 Interface Admin Status

---

**Name:** ipv6IfAdminStatus

**Type:** OBJECT-TYPE

**OID:** 1.3.6.1.2.1.55.1.5.1.9

**Full path:** iso(1).org(3).dod(6).internet(1).mgmt(2).mib-2(1).ipv6MIB(55).ipv6MIBObjects(1).ipv6IfTable(5).ipv6IfEntry(1).ipv6IfAdminStatus(9)

**Module:** IPV6-MIB

**Parent:** ipv6IfEntry

**Prev sibling:** ipv6IfPhysicalAddress

**Next sibling:** ipv6IfOperStatus

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

**Base syntax:** INTEGER

**Composed syntax:** INTEGER

**Status:** current

**Max access:** read-write

**Value list:**

1: up(1)

2: down(2)

**Description:** The desired state of the interface. When a managed system initializes, all IPv6 interfaces start with ipv6IfAdminStatus in the down(2) state. As a result of either explicit management action or per configuration information retained by the managed system, ipv6IfAdminStatus is then changed to the up(1) state (or remains in the down(2) state).

## IPv6 Interface Operational Status

---

**Name:** ipv6IfOperStatus

**Type:** OBJECT-TYPE

**OID:** 1.3.6.1.2.1.55.1.5.1.10

**Full path:** iso(1).org(3).dod(6).internet(1).mgmt(2).mib-2(1).ipv6MIB(55).ipv6MIBObjects(1).ipv6IfTable(5).ipv6IfEntry(1).ipv6IfOperStatus(10)

**Module:** IPV6-MIB

**Parent:** ipv6IfEntry

**Prev sibling:** ipv6IfAdminStatus

**Next sibling:** ipv6IfLastChange

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

**Base syntax:** INTEGER

**Composed syntax:** INTEGER

**Status:** current

**Max access:** read-only

**Value list:**

- 1: up(1)
- 2: down(2)
- 3: noIfIdentifier(3)
- 4: unknown(4)
- 5: notPresent(5)

**Description:** The current operational state of the interface. The noIfIdentifier(3) state indicates that no valid Interface Identifier is assigned to the interface. This state usually indicates that the link-local interface address failed Duplicate Address Detection.

- If ipv6IfAdminStatus is down(2) then ipv6IfOperStatus should be down(2).
- If ipv6IfAdminStatus is changed to up(1) then ipv6IfOperStatus should:
  - change to up(1) if the interface is ready to transmit and receive network traffic;
  - remain in the down(2) or noIfIdentifier(3) state if and only if there is a fault that prevents it from going to the up(1) state;
  - remain in the notPresent(5) state if the interface has missing (typically, lower layer) components.

# 4

## MIB Variables - Drive Information

---

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

---

### 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

---

### 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

---

### SAS Port World Wide Name

**Name:** sasPortWWNodeName

**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).sasPortWWNodeName(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:** sasPortWWNodeName

**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

---

## 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:** SCSICtrlSpeed

**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.

# 5

## MIB Variables - Library System Information

---

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

---

#### 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

---

### 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 Slogs

**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

---

### 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

---

### 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:** bIFcCtrlStatus

**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).bIFcCtrlTable(4).bIFcCtrlEntry(1).bIFcCtrlStatus(1)

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

**Parent:** bIFcCtrlEntry

**Next sibling:** bIFcCtrlMaxSpeed

**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:** bIFcCtrlMaxSpeed

**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).bIFcCtrlTable(4).bIFcCtrlEntry(1).bIFcCtrlMaxSpeed(2)

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

**Parent:** bIFcCtrlEntry

**Prev sibling:** bIFcCtrlStatus

**Next sibling:** bIFcCtrlWWPPortName

**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:** bIFcCtrlLoopIDMode

**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).bIFcCtrlTable(4).bIFcCtrlEntry(1).bIFcCtrlLoopIDMode(5)

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

**Parent:** bIFcCtrlEntry

**Prev sibling:** bIFcCtrlLoopID

**Next sibling:** bIFcCtrlPortMode

**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:** bIFcCtrlPortMode

**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).bIFcCtrlTable(4).bIFcCtrlEntry(1).bIFcCtrlPortMode(6)

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

**Parent:** bIFcCtrlEntry

**Prev sibling:** bIFcCtrlLoopIDMode

**Next sibling:** bIFcCtrlConnectionOptions

**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:** bIFcCtrlConnectionOptions

**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).blFccTlrTable(4).blFccTlrEntry(1).blFccTlrConnectionOptions(7)

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

**Parent:** blFccTlrEntry

**Prev sibling:** blFccTlrPortMode

**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. The range depends on the Pathlight model.

## 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.



# 6

## MIB Variables - RAS Subsystem

---

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:** RASubSystemStatus  
**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:** RASubSystemStatus  
**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.



# 7

## 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 Scalar i500 only supports SNMP v1 traps as defined by RFC 1157.

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

**Table 1** Status Traps

Trap ID	Trap	Description
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.
104	<b>phModuleDoorStatusChange</b>	<b>Physical Library 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.
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
107	<b>roboticsNotReady</b>	<p><b>Robotics Not Ready</b> Indicates that the library's robotics system has transitioned from a "ready" to "not ready" state.</p> <p>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.</p>
108	<b>logicalLibraryStateChange</b>	<p><b>Logical Library State Change</b> Indicates that a logical library, also known as a partition, has been taken online or offline.</p>
109	<b>connectivityStatusChange</b>	<p><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>
110	<b>controlStatusChange</b>	<p><b>RAS Status Change: Control<sup>a</sup></b> Indicates that a library control problem has been detected.</p> <p>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.</p>
111	<b>coolingStatusChange</b>	<p><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.</p>
112	<b>drivesStatusChange</b>	<p><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.</p>
113	<b>mediaStatusChange</b>	<p><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.</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.

**Table 1** Status Traps (Continued)

Trap ID	Trap	Description
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.

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.





## MIBs Implemented

---

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

### Quantum Tape Library MIB

---

The Quantum 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:

- 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.

# Quantum Library MIB Content

---

```
-- *****
-- ADIC-TAPE-LIBRARY-MIB.mib: Tape Library Platform Specific MIB
--
-- $Date: 2008-04-30 02:14:28 +0300 (Wed, 30 Apr 2008) $
--
-- Copyright (c) 2007 by Quantum Corporation
-- All rights reserved.
--
-- *****

-- Glossary of terms
--
-- RAS : Reliability, Accessibility and Servicibility
--
```

```
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 "200704010000Z"
    ORGANIZATION "Quantum Corporation"
    CONTACT-INFO
        " Quantum Corporation
        Postal: 141 Innovation Drive
            Irvine, CA 92617, USA
        Tel: +1 800 284-5101
```

```

        E-mail: support@quantum.com"
DESCRIPTION
    "This MIB provides Tape Library product information."
REVISION"200704010000Z"
DESCRIPTION
"The initial release."
 ::= { 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 }
--
-- 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 Gibabits per second."
SYNTAX INTEGER {
    auto( 1 ),
    oneGbps( 2 ),
    twoGbps( 3 ),
    fourGbps( 4 )
}

```

```

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 Gibabits 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 in the form of xxx.xxx.xxx.xxx
                    for this SNMP agent."

```

```

 ::= { tapeLibrarySystem 1 }

librarySNMPAgentDescription OBJECT-TYPE
    SYNTAX          DisplayString
    MAX-ACCESS      read-only
    STATUS          current
    DESCRIPTION     "Description of SNMP Agent for Tape Library."
 ::= { 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     "Firmware version of the library."
    ::= { 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     "Please replace this text with your description."
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                "Type of the drive. Indicates the type of media  
 supported."  
 ::= { 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 Logical Library to which this physical drive  
it associated with. Incase there is no association,  
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          RASSubSystemStatus
MAX-ACCESS      read-only
STATUS          current
DESCRIPTION     "Indicates overall power supply Status"
 ::= { rasSubSystem 1 }
```

coolingStatus OBJECT-TYPE

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

controlStatus OBJECT-TYPE

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

connectivityStatus OBJECT-TYPE

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

roboticsStatus OBJECT-TYPE

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

mediaStatus OBJECT-TYPE

```
SYNTAX          RASSubSystemStatus
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 Drives 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 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         "Please replace this text with your description."
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 Partition"
    ::= { 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 Data Transfer drive"
 ::= { logicalLibraryEntry 11 }

logicalLibraryStorageElemAddr OBJECT-TYPE
    SYNTAX           Integer32
    MAX-ACCESS       read-only
    STATUS           current
    DESCRIPTION     "First Storage Element Address."
 ::= { logicalLibraryEntry 12 }

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

logicalLibraryTapeDriveElemAddr OBJECT-TYPE
    SYNTAX           Integer32
    MAX-ACCESS       read-only
    STATUS           current
    DESCRIPTION     "First Data Transfer Element Address."
 ::= { 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     "This indicates Physical Library's overall Online
                Status"
 ::= { physicalLibrary 1 }

aggregatedMainDoorStatus OBJECT-TYPE
    SYNTAX      LibraryDoorStatus
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION "Please replace this text with your description."
 ::= { physicalLibrary 2 }

aggregatedIEDoorStatus OBJECT-TYPE
    SYNTAX      IEDoorStatus
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION "Please replace this text with your description."
 ::= { 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 drive."
 ::= { 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 }

```

fcPortWWNnodeName OBJECT-TYPE

SYNTAX                    DisplayString  
 MAX-ACCESS                read-only  
 STATUS                    current  
 DESCRIPTION                "8-byte value representing the World Wide Name  
                               for this drive"  
 ::= { fcPortEntry 3 }

fcPortWWPortName OBJECT-TYPE

SYNTAX                    DisplayString  
 MAX-ACCESS                read-only  
 STATUS                    current  
 DESCRIPTION                "World Wide Port Name for this drive."  
 ::= { fcPortEntry 4 }

fcPortLoopId OBJECT-TYPE

SYNTAX                    Integer32  
 MAX-ACCESS                read-only  
 STATUS                    current  
 DESCRIPTION                "Loop ID for Fibre Channel interface drive,  
                               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 interface drive,  
 undefined for  
                               other interface type drive. 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 type drive."
 ::= { fcPortEntry 7 }

```

```

fcPortNegotiatedSpeed OBJECT-TYPE
    SYNTAX             FCPortSpeed
    MAX-ACCESS         read-only
    STATUS              current
    DESCRIPTION        "Actual transmitter speed as negotiated on the FC
network.
                                The numerical value of this object is equal to the
port speed in i
                                megabits per second. Although auto(1) is defined
in the FcPortSpeed
                                enumeration, the fcPortNegotiatedSpeed should never
return this value.
                                ***** auto(1)
- This object should
                                never auto(1) megabits1000(1000) - 1000 megabits
per second
                                megabits2000(2000) - 2000 megabits per second"
 ::= { fcPortEntry 8 }

```

```

fcPortRasStatus      OBJECT-TYPE
    SYNTAX             RASubSystemStatus
    MAX-ACCESS         read-only
    STATUS              current
    DESCRIPTION        "Status of the Fibre Channel Controller"
 ::= { 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
        "Serial Number of Tape Drive."
 ::= { fcPortEntry 12 }

fcPortLogicalLibrarySerialNumber OBJECT-TYPE
    SYNTAX DisplayString
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Logical Library Serial Number of Tape Drive."
 ::= { 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     "Status for this SCSI controller."

```

```

 ::= { 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 "Is this a Target or an 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 of Tape Drive."
::= { 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,
  sasPortWWNodeName
      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 }

```

```

sasPortWWNodeName 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     "Status for this tape drive."
 ::= { 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     "Serial Number of tape drive."

```

```

 ::= { sasPortEntry 6 }

sasPortLogicalLibrarySN OBJECT-TYPE
    SYNTAX DisplayString
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Logical Library Serial Number of tape drive."
 ::= { 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),
powerreddown(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 {
    bladeIndexINTEGER,
bladeLocation    DisplayString,
bladeIP          DisplayString,
bladeWWNodeName OCTET STRING,
bladeHealthCheckValueGauge,
bladeHealthCheckInterval Gauge,
bladeHealthCheckLevelGauge,
bladeFWRevDisplayString,
bladeSerialNumberDisplayString,
bladeEVPSEnabledINTEGER,
bladeMaxHostLunINTEGER,
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"  
 ::= { bladeEntry 3 }
```

```
bladeWWNodeName OBJECT-TYPE  
SYNTAX OCTET STRING  
ACCESS read-only  
STATUS mandatory  
DESCRIPTION
```

```
    "Blade index"  
 ::= { 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 Gauge{ 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 }
```

bladeEVPSEnabledOBJECT-TYPE

```
SYNTAXINTEGER
ACCESSread-only
STATUSmandatory
DESCRIPTION "Bit 0: EVPS active if 1, inactive if 0
             Bit 1: EVPS licensed if 1, unlicensed if 0"
::= { bladeEntry 10 }
```

bladeMaxHostLunOBJECT-TYPE -- C.R. 2370

```
SYNTAXINTEGER
ACCESSread-only
STATUSmandatory
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 in seconds.
                Only after this delay the failover triggers"
 ::= { 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 {

```

```

    blDevIndexINTEGER,
    blDevUIDDisplayString,
    blDevTypeDeviceType,
    blDevVendorDisplayString,
    blDevProductDisplayString,
    blDevSerialDisplayString,
    blDevInterfaceTypeInterfaceType,
    blDevLunINTEGER,
    blDevCtlrIndexINTEGER,
    blDevFWRevDisplayString,
    blDevTargetLunINTEGER
    }

```

```

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 i.e. disk/tape/cd etc."
::= { 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."
::= { 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 {
blCtrlrIndexINTEGER,

```

```

blCtrlrTypeInterfaceType,
blCtrlrChannelMaskGauge
}

```

```

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,
blFcCtrlMaxSpeedGauge,
blFcCtrlWWPportNameDisplayString,
blFcCtrlLoopIDINTEGER,
                blFcCtrlLoopIDMode          FCPortLoopIdMode ,
blFcCtrlPortModeFibrePortMode,
blFcCtrlConnectionOptionsFibreConnOptions
}

blFcCtrlStatus          OBJECT-TYPE

```

```

SYNTAX  FcStatus
ACCESS  read-only
STATUS  mandatory
DESCRIPTION
        "Status of the Fibre Channel Controller"
::= { blFcCtrlrEntry 1 }
blFcCtrlrMaxSpeed  OBJECT-TYPE
    SYNTAX  Gauge
    ACCESS  read-only
    STATUS  mandatory
    DESCRIPTION  "Maximum Transfer Speed in MBytes per second."
::= { blFcCtrlrEntry 2 }
blFcCtrlrWWPortName  OBJECT-TYPE
    SYNTAX  DisplayString(SIZE(17))
    ACCESS  read-only
    STATUS  mandatory
    DESCRIPTION
        "World Wide Identifier for this Fibre Channel
        Controller."
::= { blFcCtrlrEntry 3 }
blFcCtrlrLoopID  OBJECT-TYPE
    SYNTAX  INTEGER(-1..127)
    ACCESS  read-only
    STATUS  mandatory
    DESCRIPTION
        "Fibre Channel Loop ID.
        soft = -1"
::= { blFcCtrlrEntry 4 }
blFcCtrlrLoopIDMode  OBJECT-TYPE
    SYNTAX  FCPortLoopIdMode
    ACCESS  read-only
    STATUS  mandatory
    DESCRIPTION
        "Fibre Channel Loop ID mode (soft or hard)"
::= { blFcCtrlrEntry 5 }
blFcCtrlrPortMode  OBJECT-TYPE
    SYNTAX  FibrePortMode
    ACCESS  read-only

```

```

STATUS mandatory
DESCRIPTION
    "Fibre Channel Port Mode."
 ::= { blFcCtrlEntry 6 }
blFcCtrlConnectionOptions OBJECT-TYPE
    SYNTAX FibreConnOptions
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION
        "Connection options for ISP2200 FC chip.
        Values 4 - 8 are reserved."
 ::= { blFcCtrlEntry 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, --aht 2/6/02 evps

```

```

}

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 "Operating System and other
                 host environment information. "
 ::= { blHostEntry 4 }

blHostPortID OBJECT-TYPE
    SYNTAX DisplayString( SIZE( 0 .. 32 ) )
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION " "
 ::= { blHostEntry 5 }

```

```

blHostITLData OBJECT-TYPE
    SYNTAX OCTET STRING ( SIZE( 256 ) )
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION "ITL Access Control data for
                 this host. 256 possible LUNs
                 with one Byte of data per LUN. "
 ::= { blHostEntry 6 }

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

-- EVPS/Host mapping/management
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 seperated 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. Depends on the
                configuration. Usuaally same as phys port
                index, but 0 if 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 seperated 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 thats 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 range
              depends on the pathlight model."
::= { blHPFFPhysicalEntry 1 }

blHPFFPhysicalPortFailureType OBJECT-TYPE
    SYNTAX FcHPFFPortFailType
    ACCESS read-only
    STATUS mandatory
    DESCRIPTION "If this phys port failed, this field gives the
                 type of failure.Values 0 = None, 1 = Link Down
                 2 = Link Error"
::= { blHPFFPhysicalEntry 2 }

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

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

-- end blade additions

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"

```

```

ready."
--#SUMMARY "The Robotics of the library %s has become

--#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 }

-- 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,  
phDriveLoads,  
    phDrivePhysicalSerialNumber,  
  
        logicalLibraryName,  
        logicalLibrarySerialNumber,  
        logicalLibraryModel,  
        logicalLibraryAssignedLun,  
        logicalLibraryMediaDomain,  
        logicalLibrarySupportedMediaTypes,  
        logicalLibraryState,  
        logicalLibraryNumSlots,  
        logicalLibraryNumIE,  
        logicalLibraryNumTapeDrives,  
        logicalLibraryStorageElemAddr,  
        logicalLibraryIEElemAddr,  
        logicalLibraryTapeDriveElemAddr,

logicalLibraryChangerDeviceAddr,  
  
powerStatus,  
coolingStatus,  
controlStatus,  
connectivityStatus,  
roboticsStatus,  
mediaStatus,  
driveStatus,  
operatorActionRequest,  
  
numLogicalLibraries,  
  
physicalLibraryState,  
aggregatedMainDoorStatus,  
aggregatedIEDoorStatus,  
numStorageSlots,  
numIESlots,  
robotState,  
  
fcPortType,  
fcPortWWNodeName,  
fcPortWWPortName,  
fcPortLoopId,  
fcPortLoopIdMode,  
fcPortId,  
fcPortNegotiatedSpeed,  
fcPortRasStatus,  
fcPortFWRev,  
fcPortFrameSize,  
fcPortDriveSerialNumber,  
fcPortLogicalLibrarySerialNumber,  
  
scsiControllerRasStatus,  
scsiControllerSpeed,  
scsiControllerRole,  
scsiControllerIoCard,  
scsiControllerMaxIds,

```

        scsiControllerMaxLuns,
        scsiControllerMaxWidth,
        scsiControllerFWRev,
        scsiControllerDriveSerialNumber,
        scsiControllerLogicalLibrarySN,

        sasPortIndex,
        sasPortWWNNodeName,
        sasPortRasStatus,
        sasPortNegotiatedSpeed,
        sasPortFWRev,
        sasPortDriveSerialNumber,
        sasPortLogicalLibrarySN,

-- start blade additions
-- blade top-level
bladeIndex,
bladeLocation,
bladeIP,
bladeWWNNodeName,
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,
        blHostITLData,
        blHostLunMap,

-- HPF
        blHPFMapVirtualPort,
        blHPFMapPrimaryPort,
        blHPFMapStandbyList,
        blHPFMapActivePort,

        blHPFPhysicalPort,
        blHPFPhysicalPortFailureType,

```

```

        blHPFPhysicalPortCurrentState,
        blHPFPhysicalPortIntervention

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

tapeLibraryMIBNotifGroup NOTIFICATION-GROUP
NOTIFICATIONS {

    startupSequenceCompleted,
    shutdownSequenceInitiated,
    phLibrayStateChange,
    moduleDoorStatusChange,
    ieDoorStatusChange,
    roboticsReady,
    roboticsNotReady,
    logicalLibraryStateChange,
    connectivityStatusChange,
    controlStatusChange,
    coolingStatusChange,
    driveStatusChange,
    mediaStatusChange,
    powerStatusChange,
    roboticsStatusChange,
    operatorInterventionRequired,
driveOnlineStateChange
}
STATUS current
DESCRIPTION
"A collection of objects providing Tape Library Management
capability."

```

```
::= { tapeLibraryMIBGroups 2 }
```

```
END
```

```
--
```

# Index

---

<b>A</b>	
Accessing SNMP Information .....	3
authentication traps .....	5

---

<b>C</b>	
community strings .....	5
contact information .....	2

---

<b>D</b>	
documents	
additional .....	2
drive MIB variables .....	13

---

<b>F</b>	
framework applications .....	3, 87

---

<b>G</b>	
GET .....	3, 4

---

<b>L</b>	
library status and health .....	77

---

<b>M</b>	
MIB	
content .....	88
library .....	87
reference .....	87
MIB variables	
drive information .....	13
IPv6 information .....	7
library system information .....	35
RAS subsystem .....	77

---

<b>R</b>	
reference documents .....	2
Reference MIBs .....	87
remote access .....	3

---

<b>S</b>	
safety	
symbols and notes .....	1
SET .....	3
SNMP authentication traps .....	5
SNMP community strings .....	5
SNMP Traps, enabling .....	4
SNMP versions supported .....	4
symbols and notes	
explained .....	1

---

<b>T</b>	
Tape Library MIB .....	87
technical assistance .....	2
Trap registration .....	3
Traps .....	4

---

<b>V</b>	
variables, see MIB variables .....	7

