

Quantum®

Scalar i6000, i3 & i6

RESTful Web Services API



Quantum Scalar i6000, i3 & i6 RESTful Web Services API, 6-68185-01 Rev C, April 2017, Product of USA.

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Scalar i6000, i3 & i6 RESTful Web Services Application Programming Interface

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1. Introduction

1.1 General

The Scalar i6000, i3 and i6 Web Services application interface uses the REpresentational State Transfer (REST) architectural principles. REST is a software architecture style that builds distributed systems consisting of clients and server components. Clients initiate requests and servers process these requests and return responses, where the response can be a status or a representation of the resources being requested.

REST is protocol independent. The Scalar i6000, i3 and i6 use the Hypertext Transfer Protocol (HTTP) as the application protocol. For more information regarding REST, visit http://en.wikipedia.org/wiki/Representational_state_transfer.

The Scalar i6000, i3 and i6 REST architecture principles are defined as follows:

1.2 Addressable Resources

Information and data is represented as resources which are addressed by a Uniform Resource Identifier (URI). The format of a URI is as follows:

protocol://host:port/resource?query=action&filter=10

The Scalar i6000, i3 and i6 communication protocol is either http or https. The host is the library domain name or library IP address, and the port defines the port number on which the web service request is requested, 80 for http and 443 for https.

While the host and port represent the library network location, the resource defines the web service resource request which consists of text separated by “/” characters to further define unique resource requests.

Optional query parameters are identified by the “?” character which separates the resource from the query strings. Query parameters are name value pairs delimited by the “&” character to allow multiple query string definitions.

1.3 Representation-Oriented Resources

Each resource can be represented in different formats. Different platforms require different formats; browsers use Hypertext Markup Language (HTML), JavaScript uses JavaScript Object Notation (JSON) and JAVA may require Extensible Markup Language (XML).

The HTTP communication protocol defines the representation in the message body of the request or response. The message body can return data in any format and the Content-Type header of the HTTP request and response informs the client or server of the message body format.

The library typically uses text/plain, application/xml and application/json. Depending on the request, it also supports application/x-tar, application/octet-stream and multipart/form-data for transferring binary or text data.

1.4 Uniformed, Constrained Request Interfaces

A small set of well-defined methods/operations manipulate library resources. Create, Read, Update, and Delete (CRUD) operations are performed via http methods POST, GET, PUT, and DELETE:

- POST is used to create a new resource, either permanently, or temporarily, such as requesting a robot operation. The request message body contains the details for the new resource to be created.
- GET is used to retrieve resource information.
- PUT is used to update/modify a resource. The request message body contains the information needed to update the resource.
- DELETE is used to remove an existing resource.

2. Request and Response Interface Description

2.1 General

As described earlier, clients use HTTP or HTTPS as the application protocol to make requests to the Scalar i6000/i3/i6 Web Services (WS) server. A client request identifies the resource URI, and any query parameters, and the library responds with status and/or request data.

The Scalar i6000, i3 and i6 defines a base URI which, by itself, provides library identification information, and also serves as the starting resource URI for all additional Web Services URI requests. The base URI is defined as follows:

HTTP(S)://LIBRARY-NAME-or-IP/aml

HTTP and HTTPS define unsecure or secure communication requests, respectively. The base URI identifies the library network location where library resources can be accessed. URIs are defined with intuitive naming conventions using a directory style structure.

2.2 URI Examples

To illustrate the use of Scalar i6000/i3/i6 URIs, consider the following URI to interact with logical library partition resources for a tape library with domain name *myLibrary*:

https://myLibrary/aml/partitions

The above URI references all configured partition resources. A particular partition resource is referenced with a specific partition name:

https://myLibrary/aml/partition/{name}

The “{name}” URI path template represents the name of the partition resource being requested.

To limit partition resource information, query strings are added to the URI. In the following example, you can retrieve a list of storage segments in frame 2 that belong to the partition with the given ‘{name}’ LL1.

https://myLibrary/aml/partition/LL1/segments?type=storage&frame=2

2.3 Web Services Request Examples

The requesting client accesses and manipulates library resources with the HTTP methods POST, GET, PUT and DELETE. These methods are included in the HTTP request header.

To illustrate, a *GET* `http://mylibrary/aml/partitions` request results in the following HTTP header data:

GET http://mylibrary/aml/partitions HTTP/1.1

Host: user@company.com

User-Agent: Mozilla/5.0

Content-type: text/plain
Accept: application/xml, application/json

The library web server response message is similar and contains the HTTP version being used, a response code, a short message that explains the response code, a variable set of optional headers and an optional message body.

HTTP/1.1 200 OK
Content-Type: application/xml
Server: Jetty(7.9.2 v20120308)
Content-Length: 870

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:partitionList xmlns:ns2="http://automatedMediaLibrary/">
  <partition>
    <name>Test Partition</name>
    <type>1</type>
    <driveDomainType>6</driveDomainType>
    <storageSlotCount>300</storageSlotCount>
    <driveCount>2</driveCount>
    <ieSlotCount>12</ieSlotCount>
    <xieSlotCount>0</xieSlotCount>
    <ampExtensionsCount>0</ampExtensionsCount>
    <mediaCount>209</mediaCount>
    <barcodeReporting>4</barcodeReporting>
    <vendorId>1</vendorId>
    <productId>3</productId>
  </partition>
</ns2:partitionList>
```

The response body in the above example contains a list (“<ns2:partitionList>” root element) of partition resources represented as XML data. The partition resources are defined as data objects which represent the library’s logical library partition configuration. The example shows an XML response, but as explained earlier, the data format of the message body could have been JSON and in this case, due to the HTTP request header containing the statement **Accept: application/xml, application/json** the library will report the data as requested either in XML or JSON.

The response message identifies the response type in the response message body via the “Content Type” or “Media Type” statement as to what data format is reported. In this particular case the requested resource supports XML (default) as well as a JSON format, however per request and default response, the XML format is returned, identified via the statement **Content-Type: application/xml**.

The Scalar i6000/i3/i6 supports the following formats:

- text/plain,
- application/xml,
- application/json,
- application/octet-stream,
- multipart/form-data, and
- application/x-tar

2.4 Web Services Response Code Objects

Typically, requests that perform creation or deletion operations (POST, DELETE methods) will receive a response code object as defined below:

```
<ns2:WSResultCode xmlns:ns2="http://automatedMediaLibrary/">
  <code>200</code>
  <description>OK</description>
  <summary>Operation Completed Successfully</summary>
  <action>Logout</action>
  <customCode>0</customCode>
</ns2:WSResultCode>
```

The Scalar i6000/i3/i6 supports the above WSResultCode object which contains the HTTP result code in the HTTP response. In the above case, the code “200” is reporting a successful request, a brief description of this code, such as “OK”, a summary of the result, such as “*Operation Completed Successfully*”, the action that was requested, such as “*Logout*” and an optional custom code that can further describe the result in certain contexts.

While resource object requests may report a single object or a list of objects, some requests may return plain text that are not resource object representations but report single scalar values. An example would be a request to retrieve the current date configured on the library:

GET HTTP://mylibrary/aml/system/dateTime/date

The following is returned in the response body:

“2012-08-23”

Typically a PUT request will return the modified resource.

2.4.1 Response Codes

The response header contains an HTTP status code that reports the status of the request. These status codes are part of the HTTP standard. The library supports the following status codes:

200 OK

The request has succeeded. The information returned with the response is dependent on the method used in the request, for example:

GET an entity corresponding to the requested resource is sent in the response.

PUT returns the modified entity as if a GET had requested it.

POST an entity describing or containing the result of the action.

201 Created

The request has been fulfilled and resulted in a new resource being created.

Example: A request has been initiated, a new object has been created and the URI to the new resource can be found in the response header Location value.

202 Accepted

The request has been accepted, this is an asynchronous operation.

Example: A request has been initiated, but has not completed yet. Status polling will allow status testing to determine progress and eventual result codes.

400 Bad Request

The request could not be understood by the server due to malformed syntax.

Example: the URI and method are correct, but a request parameter is incorrect, or the JSON or XML is invalid.

401 Unauthorized

The request requires a valid user login session.

Example: The user session expired; a login is required again.

403 Forbidden

The request requires a valid login and the user needs to have access to the requested resource.

Example: Try to create a resource that already exists, or the request is not allowed for the current user role.

404 Not Found

The server has not found anything matching the Request-URI.

Example: The URI and media type are correct, but an identified resource is not found or no longer valid. The following URI “aml/partition/{name}” uses a path template “name”, which should represent a valid configured partition name.

405 Method Not Allowed

The method specified in the Request-Line is not allowed for the resource identified by the Request-URI.

Example: The URI is supported, but the method requested (GET, POST, PUT, or DELETE) is not supported.

415 Unsupported Media Type

The server is refusing to service the request because the entity of the request is in a format not supported by the requested resource for the requested method.

Example: The Content-Type (Media Type) header is not correct in the request message. That is, the WS request is expecting application/xml or application/json.

500 Internal Server Error

The server encountered an unexpected condition which prevented it from fulfilling the request.

Example: The HTTP request was determined to be valid, but the requested operation failed.

501 Not Implemented

The server does not recognize the request method, lacks the ability to fulfill the request or does not support the functionality required to fulfill the request. This is the appropriate response when the server does not recognize the request method and is not capable of supporting it for any resource.

Example: The HTTP request is valid, but functionality has not been configured or implemented.

503 Service Unavailable

The server is currently unable to handle the request due to a temporary overloading or maintenance of the server. The implication is that this is a temporary condition which will be alleviated after some delay. If known, the length of the delay MAY be indicated in a Retry-After header. If no Retry-After is given, the client SHOULD handle the response as it would for a 500 response.

Example: The request is not allowed due to a service user being logged in to perform maintenance.

2.5 Cookies

A successful login to the WS interface responds with a session cookie in the response header data. This cookie will need to be used on each successive http/https request for request authentication purposes after the initial login.

2.6 Cache Controls

All responses have cache controls turned off. No caching mechanisms are provided through the WS interface.

3. Web Services Application Programming Interface

3.1 Resource Tables

All library resource URIs are defined within tables in the following sections. A description precedes each table and summarizes the resource and/or what the interface provides. It may also describe some differences between supported library models and whether the resource is supported by a particular library model. Table entries provide information as follows:

- the URI to a particular resource.
- the supported CRUD methods, GET, POST, PUT and DELETE.
- request data objects (XML or JSON), used with most PUT and POST methods.
- response data objects, resources, primarily represented in XML and JSON.
- the Content-type (Media Types) supported for that resource.
- any Location URIs for newly created objects.
- any parameter query strings, and
- the possible response codes.

3.1.1 Table Entry Explanations

3.1.1.1 URI

URI	aml/drives
------------	-------------------

The first row of a table is the URI. The URI is a unique identifier to a resource or a list of resources. The above *aml/drives* URI points to configured drive resources. When a client makes a request, it will use this partial URI to build the full URI that is needed to complete the request. For example, if a client wanted to GET a list of drives configured in a library whose domain name is *TEST*, the request URI would be:

<http://TEST/aml/drives>

3.1.1.2 Method

Method	POST, GET, PUT or DELETE
---------------	---------------------------------

The Method row lists the available request method(s) for the URI. Each URI may support all or a subset of the defined CRUD methods.

3.1.1.3 User Role Access

User Role Access	Admin, Service and User
-------------------------	--------------------------------

The User Role Access list the user roles that have access to the given interface. The supported user roles are 'Admin', 'Service' and 'User'.

3.1.1.4 Request/Response Header

Request Header	Content-Type: text/plain, application/xml, application/json, multipart/form-data
Response Header	Content-Type: application/xml, application/json, application/octet-stream, application/x-tar

The Request Header and Response Header fields describe what data formats are expected or reported.

3.1.1.4.1 Accept

The Accept header is used in an HTTP request to inform the server what Content-Type it expects in the response body. The library web server must support the requested Content-Type, of course, and the 'Header Response' table row specifies the supported content types. The majority of the requests support the Content-types 'application/xml' and 'application/json' where the default is 'application/xml'.

3.1.1.4.2 Content-Type/Media Type

The Content-Type defines the content format contained in the body of the HTTP request or response. The Media Type for **Requests** only apply to POST and PUT Methods and the following types are supported:

- **text/plain** – The client has inserted some plain text in the body of the request. This text is user to indicate some change that needs to be made to a resource. An example of this would be to change a partitions mode online/offline. If the client wanted to take a partition offline, they would insert a “2” in the body of the request (see Table 162: GET aml/partition/{name}/mode.)
- **application/xml** – The content of the request body is Extensible Markup Language (XML) and this XML describes a resource as an object. This is used to update an existing resource or create a new resource.
- **application/json** – The content of the request is JavaScript Object Notation (JSON). The JSON describes the resource that needs to be update or created. When a Content-Type Request is defined as “application/xml, application/json” this means that the Web Service server is expecting XML since it is reported first, but it can also accept JSON. If the client sends the resource representation as JSON they need to tell the server to expect JSON. This is done by adding the 'Content-Type: application/json' header to the request. Most of the URI interfaces support both XML and JSON.
- **multipart/form-data** – This Content-Type is used to send file binary data to the Web Server. Form data is made of a key, value pair, where the key is an identifier and the value is the file data. For example, this type is currently used to upload library and drive firmware to the library (see Table 355: GET aml/system/software).

The Content-Type for **Responses** apply to all request methods and the following types are supported:

- **text/plain** – The client HTTP response body will contain text. This is typically used to report a specific property of a resource. For example, to find the mode of a partition the response body will contain a “1” or “2” (Online/Offline) (see Table 162: GET aml/partition/{name}/mode).
- **application/xml** – The content of the response body is XML and this XML represents the resource(s) as an object or the WSResultCode.
- **application/json** – The content of the response is JavaScript Object Notation (JSON). The requested resource is represented as a JSON object. When a Content-Type Response is defined as “application/xml, application/json” this means that the Web Service response will be XML by default, since it is listed first. If the client wants the response to be represented as a JSON object then the client must add ‘Accept: application/json’ to the header of the HTTP request.
- **application/octet-stream** – The response body contains byte data, this could be readable text data or binary data.
- **application/x-tar** – The response body contains a compressed tar file.

3.1.1.4.3 Location

This response header field is used to convey the URI of a newly created resource and is typically used in conjunction with a HTTP response status code of 201. For example, if a user creates a new partition the response header would contain a location reference like “Location: http://library/partition/LL1” where ‘LL1’ is the name of the new partition.

3.1.1.4.4 Content-Disposition

This response header field is used to notify the client, specifically a browser client, that the response will contain an attachment. This response header will trigger the browser to use its default mechanism to save any file attachments/downloads. This header is typically used when the client browser needs to save library data. This field is mainly listed when save query parameters are specified. The format of the header field is “Content-Disposition: attachment; filename=” the file name to apply for the save operation”. If the ‘save=name’ name/value pair is not specified, a default file name will be applied.

3.1.1.5 Parameters

Parameters	
------------	--

Parameters are primarily user to filter the response from a GET request. The client sends supported query parameters as part of the URI request.

For example, to filter the aml/drives URI to return available unassigned drives only (drives currently not owned by a partition), the following request applies:

GET <http://TEST/aml/drive?status=available>

Multiple query parameters can be used if the URI interface supports them. In the case of the aml/media URI interface, to filter media for a particular partition, such as LL1, and only report media that are in drives, the following request applies:

<http://TEST/aml/media?partition=LL1&location=drive>

3.1.1.6 Version

Version	700(i6k)
---------	----------

The Version identifies when the interface was first introduced. In the above example, the version '700' is the short form of the official Scalar i6k release '700Q.GS22301'.

3.1.1.7 Response Code

Response Code	Supported HTTP Status codes
---------------	-----------------------------

The Response Code identifies all supported command status codes for the request.

Note: Response codes 400, 401, 405, 415 or 500 are not listed separately here since any interface request can encounter such HTTP status code.

3.1.1.8 Request Data

Request Data	
--------------	--

The Request Data reports the resource object or singleton data expected by the library web server in the body of the HTTP request.

3.1.1.9 Response Data

Response Data	
---------------	--

The Response Data details the data returned in the body of the HTTP response.

4. Library Resources

4.1 Overview

Typically, library command requests require a valid user login. Operations are supported based on login user role, such that any user can perform read operations, with few exceptions for user ID retrieval, and admin and service users will be able to perform all read, as well as create, update and delete operations.

To allow library discovery and frequent status monitoring, a read of the “aml” resource (see Table 1) allows library detection without valid login sessions (no authentication needed).

Operational functionality, pre-requisite conditions, dependencies and license requirements are documented in product documentation and not always identified for each listed method as such information could be too repetitive.

A summary of various background information is listed in the sections below.

4.2 Access Groups, host, drive and partition access.

The following interfaces under “**aml/access**” (supported by the Scalar i6k only) provide the ability to control which hosts can access which drives and partitions configured in the library. By default all drives and partitions can be accessed by all hosts connected to the SAN. However, Quantum-branded libraries support a *Path Failover/Native Storage Networking* (SNW) license which once applied to a drive, prevents device access and requires access configurations to define which hosts may access the drive or partition (control path).

To grant host access to a device (drive or partition), an access group resource must first be created (see Table 3: GET aml/access/groups). Once groups are defined, hosts must be added to an access group so that access can then be assigned to devices (see Table 17: GET aml/access/hosts, and Table 12: POST aml/access/group/{name}/hosts).

NOTE: A host can only belong to a single access group.

Drive devices and partitions (hosted by a control path drive) are added to the access groups to define the host access to the drive or partition (see Table 2: GET aml/access/devices and Table 7: POST aml/access/group/{name}/device).

4.3 Partition Resource Assignments

The following interface provides the capability to add and delete Drives, Storage, Import/Export (IE) and Extended IE (XIE) slots to and from a partition. Each of these resources are presented as a segment where Storage, IE and XIE segments contain either 6 slot magazine segments (Scalar i6k) or single slot segments (Scalar i3/i6). Drive segments contain a single drive element. To determine the location and type of a segment, use the “coordinate” element of the segment object. If a segment is removed/deleted from a partition, it is reassigned back to the physical library’s pool of unassigned segments and hereby available for assignment to any other partition. To find

all segments in the physical library, use the URI Table 220: GET `aml/physicalLibrary/segments`. This URI provides query parameters to filter for segment types, segment states, etc.

4.4 Partition Control Path Configuration

Standard partitions require a control path to support host connection for SCSI Medium Changer (SMC) control commands. The Scalar i6k, Scalar i6 and Scalar i3 tape libraries do not automatically assign a control path when a partition is created. While the Scalar i3 and Scalar i6 support control paths via drives that provide the physical interface. The Scalar i6k supports partition control paths via FC I/O blade connections or an Ethernet Expansion Blade connected LTO 5 and higher tape drive.

A feature license is not required when configuring a single control path to a partition; however, redundant control path failover configurations require a Path Failover / Storage Networking (SNW) license in the Scalar i6k, and depending on configuration setting a Path Failover or Advanced Path Failover license in the Scalar i3 and Scalar i6 tape library.

Basic Control Path Failover (BCPF) is supported only by the Scalar i6k with HP LTO5 and/or LTO 6 FC drives. This configuration enables an alternate control path via a second drive when the preferred control path via the primary control path drive fails.

Advanced Control Path Failover (ACPF) is supported with IBM and HP LTO drives requiring IBM or HP LTO 5 and higher FC drive generations. This configuration enables alternate control paths via configured redundant control path drives when the preferred control path connection fails. ACPF requires either an IBM drive or HP drive supported SCSI device driver on the attached host(s) to select the respective alternate path. A partition can support ACPF with either HP drives or IBM drives, but not a mixed solution as the ACPF with HP drives configures a primary and secondary/redundant control path connections, while ACPF with IBM drives configures all IBM control path drives as primary drives.

Multi-Path Failover (MPF) enables all configured primary control path drives to accept control commands. This configuration requires host application support for proper partition access.

4.5 Drive Data Path Configuration

Drives with two FC ports support configurations of different redundancy/failover settings. While the Scalar i6k requires a *Path Failover / Storage Networking (SNW)* license to configure supported Basic Data Path Failover, Advanced Data Path Failover or Multi-Path Failover configurations, the Scalar i3 and Scalar i6 support two licenses for specific configuration options, either a *Path Failover* license for Multi-Path Failover configurations or an *Advanced Path Failover* license for an Advanced Path Failover configuration.

Basic Data Path Failover (BDPF) is supported only by the Scalar i6k with dual ported HP LTO5 and LTO 6 FC drives only. This configuration enables an alternate data path when a preferred data path fails.

Advanced Data Path Failover (ADPF) is supported with IBM and HP LTO drives requiring dual ported IBM or HP LTO 5 and higher FC drive generations. This configuration enables an alternate data path when the preferred connection fails, but requires either an IBM drive or HP drive supported SCSI device driver on the attached host(s) to select the respective alternate path.

Multi-Path Failover (MPF) enables both drive ports and allows I/O via any connection link. This configuration requires host application support for proper drive access.

Note: The Scalar i3 with single-ported half-high drives do not support data path failover configurations.

4.6 Extended Data Life Management

The Extended Data Lifecycle Management (EDLM) requires an EDLM license. This feature is supported by the Scalar i6k and Scalar i6. One license covers the entire library.

One library-managed partition is required for the media scans. This library-managed partition is accessible only by a library administrator. It is not presented to any other application. The library-managed partition is assigned its own dedicated resources and EDLM scans may be performed for tapes configured for the EDLM partition or from other partitions configured for EDLM policies. Cartridges are moved into EDLM-scanning drives residing in the EDLM library managed partition and once scanned, tapes are returned to their original locations.

Automatic media scanning policies may be configured by partition. Each partition can have its own unique set of media scanning and action policies. Optionally, StorNext Storage Manager connections may be configured to trigger media scans and automatically copy data off of suspect or failed tapes.

4.7 Partition configuration and operations

The following URI's provide the ability to change a partition's configuration and perform certain operations. To create a new partition you must use the following interface:

Table 137: POST aml/partitions. This interface does not allow the user to select specific storage or I/E slots or drives; the user can only specify the number of slots or drives they want assigned to the new partition. The interface does not provide for policies such as drive cleaning or automatic drive firmware leveling. If a user wants to create a partition with specific drive, IE and storage slot resources and configure partition policies, they will need to issue multiple Web Service interface requests.

For example, to create a standard partition with name "SalesPartition":

- Use the interface: Table 137: POST aml/partitions and specify only the required elements in the XML request.

- After this request has completed successfully, use the interface: Table 194: POST aml/partition/{name}/segments, interface to add specific slots, I/E and drives to the partition, see the interface for more details.
- To set up a drive cleaning policy for the partition use the following interface: Table 183: POST aml/partition/{name}/policy/driveCleaning; this interface also provides the capability to update and delete a drive cleaning policy from a partition.
- The partition drive leveling policy is provided using the interface: Table 186: GET aml/partition/{name}/policy/driveLeveling; this interface can also be used to remove selective firmware files from partition drive leveling (see interface for more information). To modify the partition name, barcode reporting, vendor ID and product ID in one request you could use the following interface: Table 149: PUT aml/partition/{name}.

4.8 Drive Cleaning Policies

Drive cleaning policies are configured on a per-partition basis. While IBM drives request drive cleaning operations per internal algorithms, HP LTO drives allow for selective configuration options to request cleaning after a configured tape motion hour interval. Library-managed EDLM partitions allow also for a number of mount count configuration to trigger drive cleaning operations once the selected mount count interval is reached.

Drive cleaning configurations support manual, library-initiated automatic cleaning, and application managed cleaning configurations. If hosts are perform cleaning (application managed), the library partition should not get configured for library-initiated, automatic cleaning too.

Note: The Scalar i6k modified support for drive cleaning policies as of release i12.1 to no longer require the use of the POST or DELETE method to configure or remove a drive cleaning policy for a partition. An element “enable” has been added to the driveCleaningPolicy object that determines if a policy is configured or not for a particular partition(driveCleaningPolicy.enable). The configuration of driveCleaningPolicy.driveCleaning.motionTime applies only to HP LTO5 drives or greater) and driveCleaningPolicy.driveCleaning.mountCount applies only to EDLM partitions.

4.9 IPv6 Network Configuration

The IPv6 configuration information and setup is handled differently than IPv4, since an interface (eth0 or eth2) can be configured to have multiple IPv6 addresses. With IPv4 an interface can only have one IP address.

To make a configurations request, see Table 280: GET aml/system/network/configurations, a netConfigurationList is returned containing netConfiguration objects:

```
<netConfiguration>
  <name>eth0 or eth2</name>
  <version>1</version> 1(IPv4) or 2(IPv6)
  <hostName>dvt4</hostName> The hostname assigned to this interface
```

```
<type>1</type> -1(Unknown), 0(None), 1(Static), 2(DHCP), 3(DHCP6) and 4(Static and DHCP6)
<netMask>255.255.248.0</netMask>
<netGateway>10.20.168.1</netGateway>
<ipAddress>10.20.171.14</ipAddress>
</netConfiguration>
```

For IPv4 netConfiguration objects, version element = 1, the type element can only be 1(Static) or 2(DHCP) and the netMask, netGateway and ipAddress elements will always contain a valid IPv4 address.

With IPv6 netConfiguration objects, version element =2, there will be only one object that will have a type element of 0(None), 1(Static), 3(DHCP6) or 4(Static and DHCP6) and all the rest of the objects will have a type element of -1(Unknown). The reason for -1 (Unknown) type is it cannot determine how this address was created: Manually, DHCP6, Stateless Address Autoconfiguration.

The netConfiguration object that contains a type element that is NOT -1 is used to determine if a static IPv6 address was configured (Manual Configuration) for this interface, whether DHCP6 was configured, whether both static and DHCP6 was configured or whether none, Static nor DHCP6 was configured. If the type is 1 or 4, the object will contain an IP address, which will be the static IP address.

The following object reports that both a static address and DHCP6 is configure on interface eth0, the type element is 4, and the ipAddress reported is the static IP.

```
<netConfiguration>
  <name>eth0</name>
  <version>2</version>
  <hostName>dvt4</hostName>
  <type>4</type>
  <netMask>64</netMask>
  <netGateway>2001::</netGateway>
  <ipAddress>2001::abcd/64</ipAddress>
</netConfiguration>
```

When you configure IPv6 (Static, DHCP, Both or None) for a particular interface (eth0 or eth2) use the netConfiguration object (see Table 282: PUT aml/system/network/configuration/{name}/{version}). Each time you request an update of the interface, you must specify all of the values you want for the new configuration.

Note: When configuring a static IPv6 address on interface eth2, you do not need to supply a netGateway element. The gateway is not required.

5. Web Services API Request Summary

Table 1: GET aml/

Product Support: Scalar i6k, Scalar i3, Scalar i6

Description: Retrieve the library ping resource. The ping can be requested without logging in to the web services server (no authentication is needed). The ping can be used to discover the libraries on your network.

<i>URI</i>	<i>aml/</i>
Method	GET
User Role Access	Admin, Service, User
Version	700(i6k), 110(i3/i6)
Parameters	N/A
Request Header	N/A
Request Data	N/A
Response Codes	200
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 157: ping

Table 2: GET aml/access/devices

Product Support: Scalar i6k

Description: Retrieve a list of configured Access Device resources that could be added to an Access Group.

An access device is a drive or partition.

For a drive access device, the drive must be HP LTO 5 or greater, belong to a partition, have an SNW license applied, must be in P2P/Fabric mode and be connected to an Ethernet Expansion Blade.

For a partition access device, the partition must have a control path drive and the drive must have the above prerequisites.

<i>URI</i>	<i>aml/access/devices</i>
Method	GET
User Role Access	Admin, Service, User
Version	700(i6k), 110(i3/i6)
Parameters	N/A
Request Header	N/A
Request Data	N/A
Response Codes	200
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 1: accessDeviceList

Table 3: GET aml/access/groups

Product Support: Scalar i6k

Description: Retrieve a list of Access Group resources.

<i>URI</i>	<i>aml/access/groups</i>
Method	GET
User Role Access	Admin, Service, User
Version	700(i6k)
Parameters	N/A
Request Header	N/A
Request Data	N/A
Response Codes	200
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 3: accessGroupList

Table 4: GET aml/access/group/{name}

Product Support: Scalar i6k

Description: Retrieve the Access Group resources whose name is given by the URI path template “name”.

<i>URI</i>	<i>aml/access/group/{name}</i>
Method	GET
User Role Access	Admin, Service, User
Version	700(i6k)
Parameters	N/A
Request Header	N/A
Request Data	N/A
Response Codes	200, 404
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 4: accessGroup

Table 5: POST aml/access/group/{name}

Product Support: Scalar i6k

Description: Create a new Access Group with the name given by URI path template “name”. To create a new access group with name “AG3”, use the following: aml/access/group/AG3.

<i>URI</i>	<i>aml/access/group/{name}</i>
Method	POST
User Role Access	Admin, Service
Version	700(i6k)
Parameters	N/A
Request Header	N/A

<i>URI</i>	<i>aml/access/group/{name}</i>
Request Data	N/A
Response Codes	200, 403, 404
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 4: accessGroup

Table 6: DELETE *aml/access/group/{name}*

Product Support: Scalar i6k

Description: Delete Access Group with the name given by URI path template “name”.

<i>URI</i>	<i>aml/access/group/{name}</i>
Method	DELETE
User Role Access	Admin, Service
Version	700(i6k)
Parameters	N/A
Request Header	N/A
Request Data	N/A
Response Codes	200, 403, 404
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 203: WSResultCode

Table 7: POST *aml/access/group/{name}/device*

Product Support: Scalar i6k

Description: Add a new access device to the access group given by URI path template “name”. The <access> element must be set to true, otherwise access will not be granted on that port.

A partition accessDevice (type=2) is a drive that is configured as a control path drive (see Table 155: GET *aml/partition/{name}/controlPath*).

The following example would allow access on port 1 for the drive with serial number F001396025 to all hosts that belong to the given access group.

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:accessDevice xmlns:ns2="http://automatedMediaLibrary/">
  <serialNumber>F001396025</serialNumber>
  <type>1</type>
  <port>
    <id>1</id>
    <access>true</access>
  </port>
</ns2:accessDevice>
```

URI	<i>aml/access/group/{name}/device</i>
Method	POST
User Role Access	Admin, Service
Version	700(i6k)
Parameters	N/A
Request Header	Content-Type:application/xml or application/json
Request Data	See Figure 2: accessDevice
Response Codes	200, 403, 404
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 4: accessGroup

Table 8: PUT *aml/access/group/{name}/device*

Product Support: Scalar i6k

Description: Update the access device that belongs to the access group given by URI path template “name”.

The example below modifies access so the first port on the device will no longer be seen and the second port will be seen by all hosts in the access group.

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:accessDevice xmlns:ns2="http://automatedMediaLibrary/">
  <serialNumber>F001396025</serialNumber>
  <type>1</type>
  <port>
    <id>1</id>
    <access>>false</access>
  </port>
  <port>
    <id>2</id>
    <access>>true</access>
  </port>
</ns2:accessDevice>
```

URI	<i>aml/access/group/{name}/device</i>
Method	PUT
User Role Access	Admin, Service
Version	700(i6k)
Parameters	N/A
Request Header	Content-Type:application/xml or application/json
Request Data	See Figure 2: accessDevice
Response Codes	200, 403, 404
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 4: accessGroup

Table 9: DELETE aml/access/group/{name}/device/{serialNumber}

Product Support: Scalar i6k

Description: Remove the access device whose serial number is given by URI path template “serialNumber” from the access group given by URI path template “name”. This access device (drive or partition) will no longer be seen by hosts belonging to this access group.

URI	aml/access/group/{name}/device/{serialNumber}
Method	DELETE
User Role Access	Admin, Service
Version	700(i6k)
Parameters	N/A
Request Header	N/A
Request Data	N/A
Response Codes	200, 403, 404
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 4: accessGroup

Table 10: GET aml/access/group/{name}/devices

Product Support: Scalar i6k

Description: Retrieve the access devices configured for the access group whose name is given by URI path template “name”.

URI	aml/access/group/{name}/devices
Method	GET
User Role Access	Admin, Service, User
Version	700(i6k)
Parameters	N/A
Request Header	N/A
Request Data	N/A
Response Codes	200, 404
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 1: accessDeviceList

Table 11: POST aml/access/group/{name}/devices

Product Support: Scalar i6k

Description: Add the access device list to the access group whose name is given by URI path template “name”.

None of the access devices may already belong to the access group.

Note: Access is on a port basis so the access element of each port must be set to true to grant access to each port on the device. Not all devices have multiple ports.

URI	<i>aml/access/group/{name}/devices</i>
Method	POST
User Role Access	Admin, Service
Version	700(i6k)
Parameters	N/A
Request Header	Content-Type:application/xml or application/json
Request Data	See Figure 1: accessDeviceList
Response Codes	200, 403, 404
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 4: accessGroup

Table 12: POST *aml/access/group/{name}/hosts*

Product Support: Scalar i6k

Description: Add a host to the Access Group resource whose name is given by the URI path template “name”.

The only element required in the host object is WWPN. All other elements will be ignored.

URI	<i>aml/access/group/{name}/hosts</i>
Method	POST
User Role Access	Admin, Service
Version	700(i6k)
Parameters	N/A
Request Header	Content-Type:application/xml or application/json
Request Data	See Figure 100: host
Response Codes	200, 403, 404
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 4: accessGroup

Table 13: DELETE *aml/access/group/{name}/host/{WWPN}*

Product Support: Scalar i6k

Description: Delete a host whose WWPN is given by the URI path template “WWPN” from the Access Group resource whose name is given by the URI path template “name”.

To delete host with WWPN “1234ABCD:1234ABCD” from Access Group “AG2”, use the following URI:

`aml/access/group/AG2/host/1234abcd:1234abcd`

URI	<i>aml/access/group/{name}/host/{WWPN}</i>
Method	DELETE
User Role Access	Admin, Service
Version	700(i6k)
Parameters	N/A
Request Header	N/A
Request Data	N/A
Response Codes	200, 403, 404
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 4: accessGroup

Table 14: GET *aml/access/host/{WWPN}*

Product Support: Scalar i6k

Description: Retrieve the host resource whose WWPN is given by URI path template “WWPN”. To get the host with WWPN “1234ABCD:1234ABCD” use the following:

aml/access/host/1234ABCD:1234ABCD

URI	<i>aml/access/host/{WWPN}</i>
Method	GET
User Role Access	Admin, Service, User
Version	700(i6k)
Parameters	N/A
Request Header	N/A
Request Data	N/A
Response Codes	200, 404
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 100: host

Table 15: PUT *aml/access/host/{WWPN}*

Product Support: Scalar i6k

Description: Update the host resource whose WWPN is given by URI path template “WWPN”. This would be primarily used to change the host name and host type. The WWPN element is required to find the host that needs to be updated.

URI	<i>aml/access/host/{WWPN}</i>
Method	PUT
User Role Access	Admin, Service
Version	700(i6k)
Parameters	N/A
Request Header	Content-Type:application/xml or application/json
Request Data	See Figure 100: host
Response Codes	200, 403, 404

URI	<i>aml/access/host/{WWPN}</i>
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 100: host

Table 16: DELETE *aml/access/host/{WWPN}*

Product Support: Scalar i6k

Description: Delete the host whose WWPN is given by the URI path template “WWPN”. This will remove the host from the libraries host cached data. An online host (mode = 1) cannot be deleted.

URI	<i>aml/access/host/{WWPN}</i>
Method	DELETE
User Role Access	Admin, Service
Version	700(i6k)
Parameters	N/A
Request Header	N/A
Request Data	N/A
Response Codes	200, 403, 404
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 203: WSResultCode

Table 17: GET *aml/access/hosts*

Product Support: Scalar i6k

Description: Retrieve a list of host resources that were seen on the SAN from configured tape drives that are connected to the SAN.

URI	<i>aml/access/hosts</i>
Method	GET
User Role Access	Admin, Service, User
Version	700(i6k)
Parameters	N/A
Request Header	N/A
Request Data	N/A
Response Codes	200
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 99: hostList

Table 18: POST aml/access/hosts**Product Support:** Scalar i6k**Description:** Create a new host resource.**Note:** This functionality is used primarily for testing purposes.

<i>URI</i>	<i>aml/access/hosts</i>
Method	POST
User Role Access	Admin, Service
Version	700(i6k)
Parameters	N/A
Request Header	Content-Type:application/xml or application/json
Request Data	See Figure 100: host
Response Codes	201, 403
Response Header	Content-Type:application/xml or application/json Location: aml/access/host/{wwpn}
Response Data	See Figure 100: host

Table 19: GET aml/access/licenses**Product Support:** Scalar i6k**Description:** Retrieve a list of drives that have an SNW license or are eligible to have an SNW license applied.

An eligible drive must be owned by a partition.

Note: Most features that use an SNW license, require the drive to:

1. be attached to an Ethernet Expansion Blade (EEB) or be a 2-port IBM drive;
and
2. be an HP or IBM LTO5 drive type generation or greater.

A drive that has an SNW license applied to it will have the drive.settings.license element with a value of 11.

<i>URI</i>	<i>aml/access/licenses</i>
Method	GET
User Role Access	Admin, Service, User
Version	700(i6k)
Parameters	N/A
Request Header	N/A
Request Data	N/A
Response Codes	200
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 27: driveList

Table 20: PUT aml/access/licenses

Product Support: Scalar i6k

Description: Modify the SNW licenses for the drives in the requested driveList. The only drive elements required are the physicalSerialNumber or logicalSerialNumber and the settings.license.

To apply a license set the license element value to 11. To remove a license, set the license element to an empty string.

The example below applies a license to drive with serial number F001396043 and removes a license from the drive with serial number F00139603D.

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:driveList xmlns:ns2="http://automatedMediaLibrary/">
  <drive>
    <logicalSerialNumber>F001396043</logicalSerialNumber>
    <settings>
      <license>11</license>
    </settings>
  </drive>
  <drive>
    <logicalSerialNumber>F00139603D</logicalSerialNumber>
    <settings>
      <license></license>
    </settings>
  </drive>
</ns2:driveList>
```

When you apply an SNW license to a drive, that drive will no longer be seen on the SAN. The drive must then be configured in an Access Group before hosts can access the drive.

URI	aml/access/licenses
Method	PUT
User Role Access	Admin, Service
Version	700(i6k)
Parameters	N/A
Request Header	Content-Type:application/xml or application/json
Request Data	See Figure 27: driveList
Response Codes	200, 403, 404
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 27: driveList

Table 21: GET aml/access/license/{serialNumber}

Product Support: Scalar i6k

Description: Retrieve the drive with serial number given by the URI path template “serialNumber”. This interface would be used to determine if the drive has an SNW license. Unlike the interface, Table 19: GET aml/access/licenses, the drive returned may not be eligible for an SNW license.

<i>URI</i>	<i>aml/access/license/{serialNumber}</i>
Method	GET
User Role Access	Admin, Service, User
Version	700(i6k)
Parameters	Query parameter names are “dataStore”. The valid value for the named parameter are as follows: <ul style="list-style-type: none">dataStore = 0 (LMC Cached data), 1 (Get data directly from the drive), 2 (Hybrid - Database/Cache). The default is ‘0’. We optimized this request to use cached data. By doing this some data may be stale, such as drive status, since this data needs to come directly from the drive. To get the most up to date information use the value 1. This parameter is only supported for the Scalar i6k (added in version 739).
Request Header	N/A
Request Data	N/A
Response Codes	200, 404
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 28: drive

Table 22: POST aml/access/license/{serialNumber}

Product Support: Scalar i6k

Description: Apply an SNW license to the drive with the serial number given by the URI path template “serialNumber”.

<i>URI</i>	<i>aml/access/license/{serialNumber}</i>
Method	POST
User Role Access	Admin, Service
Version	700(i6k)
Parameters	N/A
Request Header	N/A
Request Data	N/A
Response Codes	201, 403, 404

URI	<i>aml/access/license/{serialNumber}</i>
Response Header	Content-Type:application/xml or application/json Location: aml/access/license/{serialNumber}
Response Data	See Figure 203: WSResultCode

Table 23: DELETE *aml/access/license/{serialNumber}*

Product Support: Scalar i6k

Description: Remove an SNW license from the drive with the serial number given by the URI path template “serialNumber”.

You cannot remove an SNW license from a drive if it is currently configured for Data Path Failover or Control Path Failover.

URI	<i>aml/access/license/{serialNumber}</i>
Method	DELETE
User Role Access	Admin, Service
Version	700(i6k)
Parameters	N/A
Request Header	N/A
Request Data	N/A
Response Codes	200, 403, 404
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 203: WSResultCode

Table 24: GET *aml/devices/blades/ethernet*

Product Support: Scalar i6k

Description: Retrieve a list of ethernetExpansionBlade (Ethernet Expansion Blades or EEBs) resources. EEBs provide the option for Ethernet connectivity to each LTO-5 or LTO-6 drive (for MCB-to-drive communication purposes only). The EEB provides a control path to the drive for commands as well as facilitates taking drive logs and downloading drive firmware.

URI	<i>aml/devices/blades/ethernet</i>
Method	GET
User Role Access	Admin, Service, User
Version	700(i6k)
Parameters	N/A
Request Header	N/A
Request Data	N/A
Response Codes	200
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 69: ethernetExpansionBladeList

Table 25: GET aml/devices/blade/ethernet/{serialNumber}

Product Support: Scalar i6k

Description: Retrieve an ethernetExpansionBlade resource whose serial number is given by the URI path template “serialNumber”.

<i>URI</i>	<i>aml/devices/blade/ethernet/{serialNumber}</i>
Method	GET
User Role Access	Admin, Service, User
Version	700(i6k)
Parameters	N/A
Request Header	N/A
Request Data	N/A
Response Codes	200, 404
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 70: ethernetExpansionBlade

Table 26: GET aml/devices/blade/ethernet/{serialNumber}/operations/identify

Product Support: Scalar i6k

Description: Retrieve the EEB identify task whose serial number is given by URI path template “serialNumber”.

<i>URI</i>	<i>aml/devices/blade/ethernet/{serialNumber}/identify</i>
Method	GET
User Role Access	Admin, Service, User
Version	700(i6k)
Parameters	N/A
Request Header	N/A
Request Data	N/A
Response Codes	200, 404
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 190: task

Table 27: POST aml/devices/blade/ethernet/{serialNumber}/operations/identify

Product Support: Scalar i6k

Description: Start the EEB identify task whose serial number is given by URI path template “serialNumber”. This starts the status LED on the EEB to flash rapidly.

<i>URI</i>	<i>aml/devices/blade/ethernet/{serialNumber}/identify</i>
Method	POST
User Role Access	Admin, Service
Version	700(i6k)

URI	<i>aml/devices/blade/ethernet/{serialNumber}/identify</i>
Parameters	N/A
Request Header	N/A
Request Data	N/A
Response Codes	200, 403, 404
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 190: task

Table 28: DELETE
aml/devices/blade/ethernet/{serialNumber}/operations/identify

Product Support: Scalar i6k

Description: Stop the EEB identify task whose serial number is given by URI path template “serialNumber”. This stops the status LED on the EEB from flashing rapidly.

URI	<i>aml/devices/blade/ethernet/{serialNumber}/identify</i>
Method	DELETE
User Role Access	Admin, Service
Version	700(i6k)
Parameters	N/A
Request Header	N/A
Request Data	N/A
Response Codes	200, 403, 404
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 203: WSResultCode

Table 29: GET ***aml/devices/blades/fibreChannel***

Product Support: Scalar i6k

Description: Retrieve a list of fcBlade (FC IO Blades) resources. There is one Fibre Channel (FC) I/O blade type supported: 7404 that auto-negotiates up to 4 Gbps. The 7404 FC I/O blade has an embedded controller that provides connectivity and features that enhance the performance and reliability of tape operations. It also provides two host communication ports and four connection ports to drives.

URI	<i>aml/devices/blades/fibreChannel</i>
Method	GET
User Role Access	Admin, Service, User
Version	700(i6k)
Parameters	N/A
Request Header	N/A
Request Data	N/A
Response Codes	200
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 76: fcBladeList

Table 30: GET aml/devices/blade/fibreChannel/{serialNumber}

Product Support: Scalar i6k

Description: Retrieve the FC IO Blade whose serial number is given by URI path template “serialNumber”.

URI	aml/devices/blade/fibreChannel/{serialNumber}
Method	GET
User Role Access	Admin, Service, User
Version	700(i6k)
Parameters	N/A
Request Header	N/A
Request Data	N/A
Response Codes	200, 404
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 77: fcBlade

Table 31: GET aml/devices/blade/fibreChannel/{serialNumber}/operations/identify

Product Support: Scalar i6k

Description: Retrieve the FC IO Blade identify task whose serial number is given by URI path template “serialNumber”.

URI	aml/devices/blade/fibreChannel/{serialNumber}/operations/identify
Method	GET
User Role Access	Admin, Service, User
Version	700(i6k)
Parameters	N/A
Request Header	N/A
Request Data	N/A
Response Codes	200, 404
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 190: task

Table 32: POST aml/devices/blade/fibreChannel/{serialNumber}/operations/identify

Product Support: Scalar i6k

Description: Start the FC IO Blade identify task whose serial number is given by URI path template “serialNumber”. This starts the status LED on the IO Blade to flash rapidly.

URI	aml/devices/blade/fibreChannel/{serialNumber}/operations/identify
Method	POST
User Role Access	Admin, Service
Version	700(i6k)

URI	<i>aml/devices/blade/fibreChannel/{serialNumber}/operations/identify</i>
Parameters	N/A
Request Header	N/A
Request Data	N/A
Response Codes	200, 403, 404
Response Header	Content-Type:application/xml or application/json Location: aml/devices/blade/fibreChannel/{serialNumber}/operations/identify
Response Data	See Figure 190: task

Table 33: DELETE [aml/devices/blade/fibreChannel/{serialNumber}/operations/identify](#)

Product Support: Scalar i6k

Description: Stop the FC IO Blade identify task whose serial number is given by URI path template “serialNumber”. This stops the status LED on the IO Blade from flashing rapidly.

URI	<i>aml/devices/blade/fibreChannel/{serialNumber}operations//identify</i>
Method	DELETE
User Role Access	Admin, Service
Version	700(i6k)
Parameters	N/A
Request Header	N/A
Request Data	N/A
Response Codes	200, 403, 404
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 203: WSResultCode

Table 34: GET [aml/devices/blade/fibreChannel/{serialNumber}/operations/powerCycle](#)

Product Support: Scalar i6k

Description: Retrieve the FC IO Blade power cycle task whose serial number is given by URI path template “serialNumber”.

URI	<i>aml/devices/blade/fibreChannel/{serialNumber}/operations/powerCycle</i>
Method	GET
User Role Access	Admin, Service, User
Version	700(i6k)
Parameters	N/A
Request Header	N/A
Request Data	N/A
Response Codes	200, 404
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 190: task

Table 35: POST
[aml/devices/blade/fibreChannel/{serialNumber}/operations/powerCycle](#)

Product Support: Scalar i6k

Description: Start the FC IO Blade power cycle task whose serial number is given by URI path template “serialNumber”. This operation will power cycle the IO Blade.

URI	<i>aml/devices/blade/fibreChannel/{serialNumber}/operations/powerCycle</i>
Method	POST
User Role Access	Admin, Service
Version	700(i6k)
Parameters	N/A
Request Header	N/A
Request Data	N/A
Response Codes	200, 403, 404
Response Header	Content-Type:application/xml or application/json Location: aml/devices/blade/fibreChannel/{serialNumber}/operations/powerCycle
Response Data	See Figure 190: task

Table 36: GET
[aml/devices/blade/fibreChannel/{serialNumber}/operations/reboot](#)

Product Support: Scalar i6k

Description: Retrieve the FC IO Blade reboot task whose serial number is given by URI path template “serialNumber”.

URI	<i>aml/devices/blade/fibreChannel/{serialNumber}/operations/reboot</i>
Method	GET
User Role Access	Admin, Service, User
Version	700(i6k)
Parameters	N/A
Request Header	N/A
Request Data	N/A
Response Codes	200, 404
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 190: task

Table 37: POST
[aml/devices/blade/fibreChannel/{serialNumber}/operations/reboot](#)

Product Support: Scalar i6k

Description: Start the FC IO Blade reboot task whose serial number is given by URI path template “serialNumber”. This operation will reboot the IO Blade.

URI	<i>aml/devices/blade/fibreChannel/{serialNumber}/operations/reboot</i>
Method	POST
User Role Access	Admin, Service
Version	700(i6k)
Parameters	N/A
Request Header	N/A
Request Data	N/A
Response Codes	200, 403, 404
Response Header	Content-Type:application/xml or application/json Location: aml/devices/blade/fibreChannel/{serialNumber}/operations/reboot
Response Data	See Figure 190: task

Table 38: GET aml/devices/blades/library

Product Support: Scalar i6k

Description: Retrieve the library main controller blade (MCB) list resource.

URI	<i>aml/devices/blades/library</i>
Method	GET
User Role Access	Admin, Service, User
Version	700(i6k)
Parameters	N/A
Request Header	N/A
Request Data	N/A
Response Codes	200,
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 108: libraryControlBladeList

Table 39: GET aml/devices/blade/library/{serialNumber}

Product Support: Scalar i6k

Description: Retrieve the library controller blade resource whose serial number is given by the URI path template “serialNumber”.

URI	<i>aml/devices/blade/library/{serialNumber}</i>
Method	GET
User Role Access	Admin, Service, User
Version	700(i6k)
Parameters	N/A
Request Header	N/A
Request Data	N/A
Response Codes	200, 404
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 109: libraryControlBlade

Table 40: GET aml/devices/ieStations**Product Support:** Scalar i6k

Description: Retrieve a list of ieStation resources. I/E stations enable you to import and export cartridges without interrupting normal library operation. There are two types of I/E stations on Scalar i6k libraries: 24-slot I/E stations and 72-slot I/E stations.

URI	aml/devices/ieStations
Method	GET
User Role Access	Admin, Service, User
Version	700(i6k)
Parameters	N/A
Request Header	N/A
Request Data	N/A
Response Codes	200
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 102: ieStationList

Table 41: GET aml/devices/ieStation/{number}**Product Support:** Scalar i6k

Description: Retrieve the ieStation resource whose number is given by URI path template “number”.

URI	aml/devices/ieStation/{number}
Method	GET
User Role Access	Admin, Service, User
Version	700(i6k)
Parameters	N/A
Request Header	N/A
Request Data	N/A
Response Codes	200, 404
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 103: ieStation

Table 42: GET aml/devices/ieStation/{number}/lock**Product Support:** Scalar i6k

Description: Retrieve the ieStation resource lock status whose number is given by the URI path template “number”.

The valid status are 1 (locked) or 2 (Unlocked).

URI	aml/devices/ieStation/{number}/lock
Method	GET
User Role Access	Admin, Service, User

URI	<i>aml/devices/ieStation/{number}/lock</i>
Version	700(i6k)
Parameters	N/A
Request Header	N/A
Request Data	N/A
Response Codes	200, 404
Response Header	Content-Type:application/xml or application/json
Response Data	1 or 2

Table 43: PUT *aml/devices/ieStation/{number}/lock*

Product Support: Scalar i6k

Description: Update the ieStation resource lock status whose number is given by the URI path template “number”.

The valid lock values are 1 (locked) or 2 (Unlocked).

URI	<i>aml/devices/ieStation/{number}/lock</i>
Method	PUT
User Role Access	Admin, Service
Version	700(i6k)
Parameters	N/A
Request Header	Content-Type:text/plain or application/json
Request Data	1 (lock) or 2 (unlock)
Response Codes	200, 404
Response Header	Content-Type:text/plain or application/json
Response Data	1 or 2

Table 44: GET *aml/devices/magazines*

Product Support: Scalar i3, Scalar i6

Description: Retrieve a list of magazine resources. A magazine is the removable tray that contains 25 tape cartridge slots. The right magazine can be configured for Storage and Import/Export (IE) slots.

URI	<i>aml/devices/magazines</i>
Method	GET
User Role Access	Admin, Service, User
Version	110(i3/i6)
Parameters	N/A
Request Header	N/A
Request Data	N/A
Response Codes	200
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 127: magazineList

Table 45: GET aml/devices/magazines/ieSlots**Product Support:** Scalar i3, Scalar i6

Description: Retrieve the ieSlots resource. An ieSlots object is used to configure or report how many Import/Export (IE) slots are configured in a Scalar i3 or Scalar i6 library. The IE slots are configured in increments of 5. It is also used to configure and report the IE assignment mode. This mode determines how media placed in the IE slots are assigned to partitions.

<i>URI</i>	<i>aml/devices/magazines/ieSlots</i>
Method	GET
User Role Access	Admin, Service, User
Version	110(i3/i6)
Parameters	N/A
Request Header	N/A
Request Data	N/A
Response Codes	200
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 101: ieSlots

Table 46: PUT aml/devices/magazines/ieSlots**Product Support:** Scalar i3, Scalar i6

Description: Update the IE slots count and/or the assignment mode. Either the slotCount element or assignmentMode element (or both) may be given. The slotCount element must be in increments of 5, with a minimum value of 0 (no IE slots configured) and a maximum of 240. The library will decide where to physically assign the IE slots. If only the assignment mode is being set, the slot count element should be set to -1.

<i>URI</i>	<i>aml/devices/magazines/ieSlots</i>
Method	PUT
User Role Access	Admin, Service
Version	110(i3/i6)
Parameters	N/A
Request Header	Content-Type:application/xml or application/json
Request Data	See Figure 101: ieSlots
Response Codes	200, 403
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 101: ieSlots

Table 47: POST aml/devices/magazines/eject

Product Support: Scalar i3, Scalar i6

Description: Eject multiple magazines from the library. This allows the removal of the magazines from the library. The coordinate element of the magazine object is used to determine which magazine to eject. Only the coordinate element of the magazine object is required. The coordinate section number indicates the module, a column of 1 indicates the left magazine and a column of 10 indicates the right magazine. The coordinate's row number must be 1 and the type must be 2 (storage).

URI	aml/devices/magazines/eject
Method	POST
User Role Access	Admin, Service, User
Version	110(i3/i6)
Parameters	N/A
Request Header	Content-Type:application/xml or application/json
Request Data	See Figure 127: magazineList
Response Codes	200
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 203: WSResultCode

Table 48: POST aml/devices/magazines/ieAssign

Product Support: Scalar i3, Scalar i6

Description: Assign the media in configured IE slots to a partition. Only the unassigned media will get assigned.

URI	aml/devices/magazines/ieAssign
Method	POST
User Role Access	Admin, Service
Version	110(i3/i6)
Parameters	N/A
Request Header	Content-Type:text/plain or application/json
Request Data	The partition name
Response Codes	200, 403
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 203: WSResultCode

Table 49: POST aml/devices/magazine/eject

Product Support: Scalar i3, Scalar i6

Description: Eject a magazine from the library. This allows the removal of the magazine from the library. The coordinate element of the magazine object is used to determine which magazine to eject. Only the coordinate object is required. The

coordinate section number indicates the module, a column of 1 indicates the left magazine and a column of 10 indicates the right magazine. The coordinate's row number must be 1 and the type must be 2(storage).

URI	<i>aml/devices/magazine/eject</i>
Method	POST
User Role Access	Admin, Service, User
Version	110(i3/i6)
Parameters	N/A
Request Header	Content-Type:application/xml or application/json
Request Data	See Figure 128: magazine
Response Codes	200
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 203: WSResultCode

Table 50: GET aml/devices/robots

Product Support: Scalar i6k, Scalar i3, Scalar i6

Description: Retrieve a list of robot object resources.

URI	<i>aml/devices/robots</i>
Method	GET
User Role Access	Admin, Service, User
Version	700(i6k), 110(i3/i6)
Parameters	N/A
Request Header	N/A
Request Data	N/A
Response Codes	200
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 176: robotList

Table 51: GET aml/devices/robots/enable

Product Support: Scalar i6k

Description: Retrieve the current ready state, 'true' or 'false', of the robotics. If true, the library aisle power is enabled and the robotics are operational. If false, the library aisle power is disabled, because the Control Module door is opened, for example, and the robotics are not operational.

URI	<i>aml/devices/robots/enable</i>
Method	GET
User Role Access	Admin, Service, User
Version	735(i6k)
Parameters	N/A
Request Header	N/A

URI	<i>aml/devices/robots/enable</i>
Request Data	N/A
Response Codes	200
Response Header	Content-Type: text/plain or application/json
Response Data	'true' or 'false'

Table 52: POST *aml/devices/robots/enable*

Product Support: Scalar i6k

Description: Change the robotics to enable. This simulates the pushing of the 'Enable Robotics' button on the Control Module of the i6k. This enables library aisle power so the robotics become operational. All module doors must be closed and the library aisle must be clear from any obstruction.

URI	<i>aml/devices/robots/enable</i>
Method	POST
User Role Access	Admin, Service
Version	735(i6k)
Parameters	N/A
Request Header	N/A
Request Data	N/A
Response Codes	200, 403
Response Header	Content-Type: application/xml or application/json
Response Data	See Figure 203: WSResultCode

Table 53: GET *aml/devices/robot/{name}*

Product Support: Scalar i6k, Scalar i3, Scalar i6

Description: Retrieve the robot resource whose name is given by the URI path template "name".

URI	<i>aml/devices/robot/{name}</i>
Method	GET
User Role Access	Admin, Service, User
Version	700(i6k), 110(i3/i6)
Parameters	N/A
Request Header	N/A
Request Data	N/A
Response Codes	200, 404
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 177: robot

Table 54: GET *aml/devices/robot/{name}/state*

Product Support: Scalar i6k, Scalar i3, Scalar i6

Description: Retrieve the robot’s state whose name is given by the URI path template “name”.

URI	<i>aml/devices/robot/{name}/state</i>
Method	GET
User Role Access	Admin, Service, User
Version	700(i6k), 110(i3/i6)
Parameters	N/A
Request Header	N/A
Request Data	N/A
Response Codes	200, 404
Response Header	Content-Type:text/plain or application/json
Response Data	1 (varied On) or 2 (Varied Off)

Table 55: PUT *aml/devices/robot/{name}/state*

Product Support: Scalar i6k, Scalar i3, Scalar i6

Description: Update the robot’s state whose name is given by the URI path template “name”.

URI	<i>aml/devices/robot/{name}/state</i>
Method	PUT
User Role Access	Admin, Service
Version	700(i6k), 110(i3/i6)
Parameters	N/A
Request Header	Content-Type:text/plain or application/json
Request Data	1 (varied On) or 2 (Varied Off)
Response Codes	200, 403, 404
Response Header	Content-Type:text/plain or application/json
Response Data	1 (varied On) or 2 (Varied Off)

Table 56: POST *aml/devices/robot/{name}/park*

Product Support: Scalar i3, Scalar i6

Description: Park the robot whose name is given by the URI path template “name”.

URI	<i>aml/devices/robot/{name}/park</i>
Method	POST
User Role Access	Admin, Service
Version	110(i3/i6)
Parameters	N/A
Request Header	Content-Type:text/plain or application/json
Request Data	1 (Top) or 2(Bottom)
Response Codes	200, 403, 404
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 203: WSResultCode

Table 57: GET aml/devices/towers

Product Support: Scalar i6k

Description: Retrieve the list of tower resources. Towers are high-density expansion modules (HDEM). These modules have larger storage capacities making them ideal for libraries where space is an issue.

URI	aml/devices/towers
Method	GET
User Role Access	Admin, Service, User
Version	700(i6k)
Parameters	N/A
Request Header	N/A
Request Data	N/A
Response Codes	200
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 194: towerList

Table 58: GET aml/devices/tower/{id}

Product Support: Scalar i6k

Description: Retrieve the tower resource whose id is given by the URI path template “id”.

URI	aml/devices/tower/{id}
Method	GET
User Role Access	Admin, Service, User
Version	700(i6k)
Parameters	N/A
Request Header	N/A
Request Data	N/A
Response Codes	200, 404
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 195: tower

Table 59: POST aml/devices/tower/{id}/identify

Product Support: Scalar i6k

Description: Identify the tower resource whose id is given by the URI path template “id”. The status LED on the rear tower door will flash rapidly for about one minute.

URI	aml/devices/tower/{id}/identify
Method	POST
User Role Access	Admin, Service
Version	700(i6k)
Parameters	N/A

URI	<i>aml/devices/tower/{id}/identify</i>
Request Header	N/A
Request Data	N/A
Response Codes	200, 403, 404
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 203: WSResultCode

Table 60: GET *aml/devices/tower/{id}/mode*

Product Support: Scalar i6k

Description: Retrieve the tower resource mode whose id is given by the URI path template “id”.

URI	<i>aml/devices/tower/{id}/mode</i>
Method	GET
User Role Access	Admin, Service, User
Version	700(i6k)
Parameters	N/A
Request Header	N/A
Request Data	N/A
Response Codes	200, 404
Response Header	Content-Type:text/plain or application/json
Response Data	1 (Online) or 2 (Offline)

Table 61: PUT *aml/devices/tower/{id}/mode*

Product Support: Scalar i6k

Description: Update the tower resource mode whose id is given by the URI path template “id”.

URI	<i>aml/devices/tower/{id}/mode</i>
Method	PUT
User Role Access	Admin, Service
Version	700(i6k)
Parameters	N/A
Request Header	Content-Type:text/plain or application/json
Request Data	1 (Online) or 2 (Offline)
Response Codes	200, 403, 404
Response Header	Content-Type:text/plain or application/json
Response Data	1 (Online) or 2 (Offline)

Table 62: POST *aml/devices/tower/{id}/reset*

Product Support: Scalar i6k

Description: Reset the tower’s controller board whose id is given by the URI path template “id”.

URI	<i>aml/devices/tower/{id}/reset</i>
Method	POST
User Role Access	Admin, Service
Version	700(i6k)
Parameters	N/A
Request Header	N/A
Request Data	N/A
Response Codes	200, 403, 404
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 203: WSResultCode

Table 63: GET *aml/devices/tower/{id}/state*

Product Support: Scalar i6k

Description: Retrieve the tower’s state whose id is given by the URI path template “id”.

URI	<i>aml/devices/tower/{id}/state</i>
Method	GET
User Role Access	Admin, Service, User
Version	700(i6k)
Parameters	N/A
Request Header	N/A
Request Data	N/A
Response Codes	200, 404
Response Header	Content-Type:text/plain or application/json
Response Data	1(Varied On) or 2(Varied Off)

Table 64: PUT *aml/devices/tower/{id}/state*

Product Support: Scalar i6k

Description: Change the tower’s state whose id is given by the URI path template “id”.

URI	<i>aml/devices/tower/{id}/state</i>
Method	PUT
User Role Access	Admin, Service
Version	700(i6k)
Parameters	N/A
Request Header	N/A
Request Data	N/A
Response Codes	200, 403, 404
Response Header	Content-Type:text/plain or application/json
Response Data	1(Varied On) or 2(Varied Off)

Table 65: GET *aml/drives*

Product Support: Scalar i6k, Scalar i3, Scalar i6

Description: Retrieve all tape drive resource instances. To filter the number of drives you want to receive use the query parameters described below.

URI	aml/drives
Method	GET
User Role Access	Admin, Service, User
Version	700(i6k), 110(i3/i6)
Parameters	<p>Query parameter names are “partition”, “status” and “dataStore”. The valid value for the named parameter are as follows:</p> <ul style="list-style-type: none"> • partition = “partition name” • status = “available” or “used” • dataStore = 0 (LMC Cached data), 1 (Get data directly from the drive), 2 (Hybrid - Database/Cache). The default is ‘0’. We optimized this request to use cached data. By doing this some data may be stale, such as drive status, since this data needs to come directly from the drive. To get the most up to date information use the value 1. This parameter is only supported for the Scalar i6k (added in version 738).. <p>To retrieve all the drive in the library use “aml/drives”.</p> <p>To retrieve all drives not belonging to a partition use “aml/drives?status=available”</p> <p>To retrieve all drives belonging to a partition named Sales use “aml/drives?partition=Sales”</p>
Request Header	N/A
Request Data	N/A
Response Codes	200
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 27: driveList

Table 66: DELETE aml/drives/firmware/image/{name}

Product Support: Scalar i6k, Scalar i3, Scalar i6

Description: Delete the specified drive firmware file given by the 'name' path parameter.

URI	aml/drives/firmware/image/{name}
Method	DELETE
User Role Access	Admin, Service
Version	700(i6k), 110(i3/i6)
Parameters	N/A
Request Header	N/A

URI	aml/drives/firmware/image/{name}
Request Data	N/A
Response Codes	200, 403, 404
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 203: WSResultCode

Table 67: GET aml/drives/firmware/images

Product Support: Scalar i6k, Scalar i3, Scalar i6

Description: Retrieve the list of currently installed firmware images.

URI	aml/ drives/firmware/images
Method	GET
User Role Access	Admin, Service, User
Version	700(i6k), 110(i3/i6)
Parameters	Query parameter names are vendor and type, with the following values <ul style="list-style-type: none"> • vendor=IBM or HP • type=LTO2, LTO3, LTO4, LTO5, LTO6 and LTO7
Request Header	N/A
Request Data	N/A
Response Codes	200
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 88: firmwareFileList

Table 68: POST aml/drives/firmware/images

Product Support: Scalar i6k, Scalar i3, Scalar i6

Description: Upload a drive firmware image using form data with key = 'file' and value = filename of firmware. For example, to upload a firmware file named HP_FH_FC_I69Z.E you would have the following:

file = HP_FH_FC_I69Z.E

file = the location of the file (/tmp/ HP_FH_FC_I69Z.E)

Note: The firmware file name must have one of the following extensions, .drv .fmr .fmrz .img .ro .e or .frm, and is case insensitive.

URI	aml/ drives/firmware/images
Method	POST
User Role Access	Admin, Service
Version	700(i6k), 110(i3/i6)
Parameters	N/A
Request Header	Content-Type: multipart/form-data
Request Data	N/A

<i>URI</i>	<i>aml/ drives/firmware/images</i>
Response Codes	200, 403
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 203: WSResultCode

Table 69: GET aml/drives/firmware/operations/update

Product Support: Scalar i6k

Description: Retrieve the progress of the current drive(s) update operations.

This returns a firmwareStatusList object. The updateState element does not apply to this interface and should be ignored.

If a response code 404 is returned, the firmware update has finished and there is no further status to report.

<i>URI</i>	<i>aml/drives/firmware/operations/update</i>
Method	GET
User Role Access	Admin, Service, User
Version	700(i6k), 110(i3/i6)
Parameters	N/A
Request Header	N/A
Request Data	N/A
Response Codes	200, 404
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 92: firmwareStatusList

Table 70: POST aml/drives/firmware/operations/update

Product Support: Scalar i6k, Scalar i3, Scalar i6

Description: Upgrade the selected drives with the specified firmware image files. To determine the progress status of the update, use Table 69: GET aml/drives/firmware/operations/update. This only applies to i6k libraries.

Note: The Scalar i6k supports an asynchronous request. Non-Scalar i6k tape libraries will support synchronous requests and block until the update has finished.

<i>URI</i>	<i>aml/drives/firmware/operations/update</i>
Method	POST
User Role Access	Admin, Service
Version	700(i6k), 110(i3/i6)
Parameters	N/A
Request Header	Content-Type:application/xml or application/json
Request Data	See Figure 89: firmwareUpdateList
Response Codes	200, 403

URI	<i>aml/drives/firmware/operations/update</i>
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 203: WSResultCode

Table 71: GET *aml/drives/logs*

Product Support: Scalar i6k, Scalar i3, Scalar i6

Description: Retrieve a list of drive log resources that were generated by the library because of certain tape alerts generated by a drive.

URI	<i>aml/drives/logs</i>
Method	GET
User Role Access	Admin, Service, User
Version	700(i6k), 110(i3/i6)
Parameters	N/A
Request Header	N/A
Request Data	N/A
Response Codes	200
Response Header	Content-Type: application/xml or application/json
Response Data	See Figure 35: driveLogList

Table 72: GET *aml/drives/log/{name}*

Product Support: Scalar i6k, Scalar i3, Scalar i6

Description: Retrieve the drive log resource instance whose name is given by the URI path template “name”.

URI	<i>aml/drives/log/{name}</i>
Method	GET
User Role Access	Admin, Service, User
Version	700(i6k), 110(i3/i6)
Parameters	<p>Query parameter names are “save” with the following valid values:</p> <ul style="list-style-type: none"> • save=the default name you want the browser to save the contents of the file too. If no name is given a default name will be supplied by the Web Server. <p>The purpose of the save parameter is to tell the Web Browser that this is an attachment. If the client is not a Web Browser then the ‘Accept: application/octet-stream’ can be used to retrieve the file data.</p>
Request Header	<p>Accept: application/octet-stream (download the file content)</p> <p>Accept: application/xml or application/json (retrieve the driveLog resource object)</p>

URI	<i>aml/drives/log/{name}</i>
Request Data	N/A
Response Codes	200, 404
Response Header	Content-Type: application/octet-stream, application/xml or application/json Content-Disposition: attachment; filename="the name of the file" (This will only happen if the save query parameter is requested) On success Cookie: name=FileDownloadingProgressCookie, value=Done
Response Data	The file content, or driveLog object, see Figure 36: driveLog

Table 73: DELETE *aml/drives/log/{name}*

Product Support: Scalar i6k, Scalar i3, Scalar i6

Description: Delete the drive log resource instance whose name is given by the URI path template "name".

URI	<i>aml/drives/log/{name}</i>
Method	DELETE
User Role Access	Admin, Service
Version	700(i6k), 110(i3/i6)
Parameters	N/A
Request Header	N/A
Request Data	N/A
Response Codes	200, 403, 404
Response Header	Content-Type: application/xml or application/json
Response Data	See Figure 203: WSResultCode

Table 74: POST *aml/drives/log/{name}/email*

Product Support: Scalar i6k, Scalar i3, Scalar i6

Description: Email the drive log resource instance whose name is given by the URI path template "name".

URI	<i>aml/drives/log/{name}/email</i>
Method	POST
User Role Access	Admin, Service
Version	700(i6k), 110(i3/i6)
Parameters	N/A
Request Header	Content-Type: application/xml or application/json
Request Data	See Figure 63: email
Response Codes	200, 403, 404

URI	<i>aml/drives/log/{name}/email</i>
Response Header	Content-Type: application/xml or application/json
Response Data	See Figure 203: WSResultCode

Table 75: GET aml/drives/ports

Product Support: Scalar i6k, Scalar i3, Scalar i6

Description: Retrieve all drive port resource instances.

URI	<i>aml/drives/ports</i>
Method	GET
User Role Access	Admin, Service, User
Version	700(i6k), 110(i3/i6)
Parameters	Query parameter names are “configuration” with the following valid values: <ul style="list-style-type: none"> configuration = “actual” or “requested” Note: On the i6k only requested is applicable
Request Header	N/A
Request Data	N/A
Response Codes	200
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 37: drivePortList

Table 76: POST aml/drives/powerCycle

Product Support: Scalar i6k, Scalar i3, Scalar i6

Description: Power Cycle one or more drives. The drive serial numbers can be physical or logical.

URI	<i>aml/drives/powerCycle</i>
Method	POST
User Role Access	Admin, Service
Version	720(i6k), 110(i3/i6)
Parameters	N/A
Request Header	Content-Type:application/xml or application/json
Request Data	See Figure 39: driveSerialNumberList
Response Codes	200, 403
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 203: WSResultCode

Table 77: GET aml/drives/reports/activity

Product Support: Scalar i6k, Scalar i3, Scalar i6

Description: Retrieve the library drive(s) activity for the last 24 hours. A list of 24 driveActivityStatistics objects will be returned. Each object will represent an hour of activity in the last 24 hours and will report the read and writes in MB for all drives in the library, including the total mount counts and the hour of the day. The first entry in the list will represent the activity 23 hours ago, while the last entry in the list will represent activity for the current hour of the day.

URI	aml/drives/reports/activity
Method	GET
User Role Access	Admin, Service, User
Version	700(i6k), 110(i3/i6)
Parameters	<p>The following query parameters are supported, partition and drive with the following values:</p> <ul style="list-style-type: none"> • partition= the name of a specific partition • driveSerialNumber= The physical serial number of the drive <p>If no query parameters are used the request will return data for all drives in the library. If the partition parameter is specified the data for the drives belonging to that partition will be reported. When the drive query parameter is specified then the data for that drive is reported.</p>
Request Header	N/A
Request Data	N/A
Response Codes	200
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 29: driveActivityStatistics

Table 78: GET aml/drives/reports/activity/details

Product Support: Scalar i6k, Scalar i3, Scalar i6

Description: Retrieve the library drive(s) activity for the last 24 hours. A list of 24 driveActivityStatistics objects will be returned for each drive installed in the library, see Figure 29: driveActivityStatistics for details. The detailedDriveActivityStatistics.drive object reports the logical and physical serial number of the drive and the partition who owns the drive.

URI	aml/drives/reports/activity/details
Method	GET
User Role Access	Admin, Service, User
Version	720(i6k), 110(i3/i6)

URI	<i>aml/drives/reports/activity/details</i>
Parameters	N/A
Request Header	N/A
Request Data	N/A
Response Codes	200
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 25: detailedDriveActivityStatistics

Table 79: GET *aml/drives/reports/cleaning*

Product Support: Scalar i3, Scalar i6

Description: Retrieve the list of drive cleaning records. The drive cleaning records provide information as to when a drive was last cleaned, what cleaning media was used, how many time the media was used to clean a drive and whether the cleaning media has expired.

URI	<i>aml/drives/reports/cleaning</i>
Method	GET
User Role Access	Admin, Service
Version	110(i3/i6)
Parameters	<p>The following query parameters are supported, start, length, period, date, barcode, save with the following values:</p> <ul style="list-style-type: none"> • start=0-n • length=1-n or -1 for all records • period=the last number of days to include in the report. So if you want to report for the last month, you would specify 30. • date=At what date you want to start your query. The data returned will include all records that are equal or older than the date specified. When used with the period parameter, the data returned will include all records that are equal or older than the date specified up to the period (number of days) specified. The date format expected is “yyyy-MM-dd HH:mm:ss” or “yyyy-MM-dd HH:mm:ss Z”, the Z (time zone) will be ignored. • barcode=The media barcode • save=”name” where name is a file name to use to save the drive utilization information to. The file format will be CSV. <p>The save=”name” query parameter should be</p>

URI	<i>aml/drives/reports/cleaning</i>
	used by a client browser to allow the data to be saved by the browser. A default “name” is provided. If no query parameters are used the request will return all the drive cleaning data.
Request Header	N/A
Request Data	N/A
Response Codes	200, 403
Response Header	Content-Type:application/xml or application/json, text/plain, application/octet-stream On success Cookie: name=FileDownloadingProgressCookie, value=Done
Response Data	See Figure 30: driveCleaningList

Table 80: POST *aml/drives/reports/cleaning/email*

Product Support: Scalar i3, Scalar i6

Description: Email the list of drive cleaning records. The information will be in an email attachment and the file format will be CSV.

The reportCriteria object supports the same query parameters as Table 80: POST *aml/drives/reports/cleaning*.

URI	<i>aml/drives/reports/cleaning/email</i>
Method	POST
User Role Access	Admin, Service
Version	110(i3/i6)
Parameters	N/A
Request Header	Content-Type:application/xml or application/json
Request Data	Figure 63: email
Response Codes	200, 403
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 203: WSResultCode

Table 81: GET *aml/drives/reports/utilization*

Product Support: Scalar i6k, Scalar i3, Scalar i6

Description: Retrieve the list of drive utilization records. The drive utilization record provides information as to when tape drives were mounted and un-mounted, capturing how much data the drives read and wrote during such mount sessions. The information provides details to allow further analysis as to which drives may be under- or over-

utilized for tape cartridge load operations while also providing read/write performance data to assess tape cartridge residency needs.

If the Media Type text/plain is selected (Accept http header) the data will be returned in CSV format.

Note: This is a licensed feature (Advanced Reporting).

URI	aml/drives/reports/utilization
Method	GET
User Role Access	i6k - Admin, Service, User i3/i6 – Admin, Service
Version	700(i6k), 110(i3/i6)
Parameters	<p>The following query parameters are supported, start, length, period, date, partition, driveSerialNumber, barcode, save with the following values:</p> <ul style="list-style-type: none"> • start=0-n • length=1-n or -1 for all records • period=the last number of days to include in the report. So if you want to report for the last month, you would specify 30. • date=At what date you want to start your query. The data returned will include all records that are equal or older than the date specified. When used with the period parameter, the data returned will include all records that are equal or older than the date specified up to the period (number of days) specified. The date format expected is “yyyy-MM-dd HH:mm:ss” or “yyyy-MM-dd HH:mm:ss Z”, the Z (time zone) will be ignored. • partition= the name of a specific partition • barcode=The media barcode • save=”name” where name is a file name to use to save the drive utilization information to. The file format will be CSV. <p>The save=”name” query parameter should be used by a client browser to allow the data to be saved by the browser. A default “name” is provided.</p> <p>If no query parameters are used the request will return all the drive utilization data.</p>

URI	<i>aml/drives/reports/utilization</i>
	If the partition parameter is specified the data for the drives belonging to that partition will be reported.
Request Header	N/A
Request Data	N/A
Response Codes	200, 403(i3/i6)
Response Header	Content-Type:application/xml or application/json, text/plain, application/octet-stream On success Cookie: name=FileDownloadingProgressCookie, value=Done
Response Data	See Figure 40: driveUtilizationList

Table 82: POST *aml/drives/reports/utilization/email*

Product Support: Scalar i6k, Scalar i3, Scalar i6

Description: Email the list of drive utilization records. The information will be in an email attachment and the file format will be CSV.

The reportCriteria object supports the same query parameters as Table 68: GET *aml/drives/reports/utilization*.

Note: This is a licensed feature (Advanced Reporting).

URI	<i>aml/drives/reports/utilization/email</i>
Method	POST
User Role Access	Admin, Service
Version	700(i6k), 110(i3/i6)
Parameters	N/A
Request Header	Content-Type:application/xml or application/json
Request Data	Figure 63: email
Response Codes	200, 403
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 203: WSResultCode

Table 83: GET *aml/drive/{serialNumber}*

Product Support: Scalar i6k, Scalar i3, Scalar i6

Description: Retrieve the drive resource instances whose serial number is given by the URI path template “serialNumber”. The serialNumber can be the drives logical or physical serial number.

URI	<i>aml/drive/{serialNumber}</i>
Method	GET
User Role Access	Admin, Service, User

URI	<i>aml/drive/{serialNumber}</i>
Version	700(i6k), 110(i3/i6)
Parameters	Query parameter names are “dataStore”. The valid value for the named parameter are as follows: <ul style="list-style-type: none"> dataStore = 0 (LMC Cached data), 1 (Get data directly from the drive), 2 (Hybrid - Database/Cache). The default is ‘0’. We optimized this request to use cached data. By doing this some data may be stale, such as drive status, since this data needs to come directly from the drive. To get the most up to date information use the value 1. This parameter is only supported for the Scalar i6k (added in version 738).
Request Header	N/A
Request Data	N/A
Response Codes	200, 404
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 28: drive

Table 84: GET *aml/drive/{serialNumber}/dataPath*

Product Support: Scalar i6k, Scalar i3, Scalar i6

Description: Retrieve the data path drive or capable data path drive whose serial number is given by the URI path template “serialNumber”. The serialNumber can be the drives logical or physical serial number.

URI	<i>aml/drive/{serialNumber}/dataPath</i>
Method	GET
User Role Access	Admin, Service, User
Version	700(i6k), 110(i3/i6)
Parameters	N/A
Request Header	N/A
Request Data	N/A
Response Codes	200, 404
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 28: drive

Table 85: PUT *aml/drive/{serialNumber}/dataPath*

Product Support: Scalar i6k, Scalar i6

Description: Update the data path drive whose serial number is given by the URI path template “serialNumber”. The drive element field that needs to be updated is the settings.dataPath field. The valid values are: 1 (None), 2 (Standard) and 3 (Advanced).

The example below turns on standard data path failover. The serialNumber can be the drives logical or physical serial number.

URI	<i>aml/drive/{serialNumber}/dataPath</i>
Method	PUT
User Role Access	Admin, Service
Version	700(i6k), 110(i3/i6)
Parameters	N/A
Request Header	Content-Type:application/xml or application/json
Request Data	See Figure 28: drive The required fields of the drive object are as follows: <pre><ns2:drive xmlns:ns2="http://automatedMediaLibrary/"> <logicalSerialNumber>F0012</logicalSerialNumber> OR <physicalSerialNumber>ABCD</physicalSerialNumber> <settings> <dataPath>2</dataPath> </settings> </ns2:drive></pre>
Response Codes	200, 403, 404
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 28: drive

Table 86: GET *aml/drive/{serialNumber}/operations/clean*

Product Support: Scalar i6k, Scalar i3, Scalar i6

Description: Retrieve a list of clean drive tasks that were requested on the drive whose serial number is provided by the URI path template “serialNumber”. The serialNumber must be the drives logical serial number.

URI	<i>aml/ drive/{serialNumber}/operations/clean</i>
Method	GET
User Role Access	Admin, Service, User
Version	700(i6k), 110(i3/i6)
Parameters	N/A
Request Header	N/A
Request Data	N/A
Response Codes	200, 404
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 189: taskList

Table 87: POST *aml/drive/{serialNumber}/operations/clean*

Product Support: Scalar i6k, Scalar i3, Scalar i6

Description: Start a drive cleaning on the drive using the cleanDriveTask object. The serialNumber must be the drive’s logical serial number.

Before you can issue a drive cleaning operation, the drive mode must be changed to offline.

To determine what cleaning media to use to clean the drive you can first use the URI Table 183: GET aml/physicalLibrary/elements to find the configured cleaning slot elements.

You can also use the URI Table 109: GET aml/media to find the cleaning media configured in the library.

Note: This request is an asynchronous request on a Scalar i6k library. The new task object URI that was created will be included in the 'Location' header of the response, see Table 88: GET aml/drive/{serialNumber}/operations/clean/{id}. To determine if a drive cleaning task has completed, check the state element of the task object, when complete the state should be 5 (Completed) (see Figure 190: task).

In the Scalar i3 and Scalar i6, this request will block until the cleaning operation has completed.

URI	aml/drive/{serialNumber}/operations/clean
Method	POST
User Role Access	i6k - Admin, Service i3/i6 - Admin, Service, User (Partition Access Required)
Version	700(i6k), 110(i3/i6)
Parameters	N/A
Request Header	Content-Type:application/xml or application/json
Request Data	See Figure 13: cleanDriveTask
Response Codes	202(i6k) 200(i3/i6), 403, 404
Response Header	Content-Type:application/xml or application/json Location: aml/drive/{serialNumber}/operations/clean/{taskId}
Response Data	See Figure 203: WSResultCode

Table 88: GET aml/drive/{serialNumber}/operations/clean/{id}

Product Support: Scalar i6k

Description: Retrieve the task object with the id given by URI path template “id” and the componentId given by URI path template “serialNumber”. The serialNumber must be the drives logical serial number.

URI	aml/drive/{serialNumber}/operations/clean/{id}
Method	GET
User Role Access	Admin, Service, User
Version	700(i6k), 110(i3/i6)
Parameters	N/A
Request Header	N/A
Request Data	N/A
Response Codes	200, 404

URI	<i>aml/drive/{serialNumber}/operations/clean/{id}</i>
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 190: task

Table 89: POST *aml/drive/{serialNumber}/operations/eject*

Product Support: Scalar i6k, Scalar i3, Scalar i6

Description: Eject media from the drive whose serial number is provided by the URI path template “serialNumber”. The serialNumber can be either the drive’s physical or logical serial number.

Note: In the event a tape cartridge is stuck in a tape drive, a *forced eject* command sequence, which simulates a physical 10 second eject button press and hold, consists of a drive power-cycle command followed by an eject request.

See Table 93: POST *aml/drive/{serialNumber}/operations/powerCycle* as well as Table 89: POST *aml/drive/{serialNumber}/operations/eject*.

URI	<i>aml/drive/{serialNumber}/operations/eject</i>
Method	POST
User Role Access	i6k - Admin, Service i3/i6 - Admin, Service, User (Partition Access Required)
Version	700(i6k), 110(i3/i6)
Parameters	N/A
Request Header	N/A
Request Data	N/A
Response Codes	200, 404
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 203: WSResultCode

Table 90: GET *aml/drive/{serialNumber}/operations/identify*

Product Support: Scalar i6k

Description: Retrieve the drive identify task on the drive whose serial number is given by the URI path template “serialNumber”. The serialNumber must be the drive’s logical serial number.

URI	<i>aml/drive/{serialNumber}/operations/identify</i>
Method	GET
User Role Access	Admin, Service, User
Version	700(i6k), 110(i3/i6)
Parameters	N/A
Request Header	N/A
Request Data	N/A
Response Codes	200, 404
Response Header	Content-Type:application/xml or application/json

URI	<i>aml/drive/{serialNumber}/operations/identify</i>
Response Data	See Figure 190: task

Table 91: POST *aml/drive/{serialNumber}/operations/identify*

Product Support: Scalar i6k, Scalar i3, Scalar i6

Description: Initiate a drive identify on the drive whose serial number is given by the URI path template “serialNumber”. The serialNumber must be the drive’s logical serial number. Only one identify task can be initiated at a time. If an identify task is currently running, it must be stopped (DELETE) before another one may be started.

URI	<i>aml/drive/{serialNumber}/operations/identify</i>
Method	POST
User Role Access	i6k - Admin, Service i3/i6 - Admin, Service, User (Partition Access Required)
Version	700(i6k), 110(i3/i6)
Parameters	N/A
Request Header	N/A
Request Data	N/A
Response Codes	201, 403, 404
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 203: WSResultCode

Table 92: DELETE *aml/drive/{serialNumber}/operations/identify*

Product Support: Scalar i6k, Scalar i3, Scalar i6

Description: Stop a drive identify task for the drive whose serial number is given by the URI path template “serialNumber”. The serialNumber must be the drive’s logical serial number.

URI	<i>aml/drive/{serialNumber}/operations/identify</i>
Method	DELETE
User Role Access	i6k - Admin, Service i3/i6 – Admin, Service, User (Partition Access Required)
Version	700(i6k), 110(i3/i6)
Parameters	N/A
Request Header	N/A
Request Data	N/A
Response Codes	200, 403, 404
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 203: WSResultCode

Table 93: POST aml/drive/{serialNumber}/operations/powerCycle

Product Support: Scalar i6k, Scalar i3, Scalar i6

Description: Power cycle the drive whose serial number is given by the URI path template “serialNumber”. The serialNumber can be the drive’s logical or physical serial number.

URI	aml/drive/{serialNumber}/operations/powerCycle
Method	POST
User Role Access	Admin, Service
Version	700(i6k), 110(i3/i6)
Parameters	N/A
Request Header	N/A
Request Data	N/A
Response Codes	200, 403, 404
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 203: WSResultCode

Table 94: POST aml/drive/{serialNumber}/operations/performanceTest

Product Support: Scalar i3, Scalar i6

Description: Run a performance test on the drive whose serial number is provided by the URI path template “serialNumber”. The serialNumber can be the drive’s logical or physical serial number.

URI	aml/drive/{serialNumber}/operations/performanceTest
Method	POST
User Role Access	Admin, Service, , User (Partition Access Required)
Version	110(i3/i6)
Parameters	N/A
Request Header	Content-Type:application/xml or application/json
Request Data	See Figure 130: media
Response Codes	200, 403, 404
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 203: WSResultCode

Table 95: GET aml/drive/{identifier}/operations/state

Product Support: Scalar i6k, Scalar i3, Scalar i6

Description: Retrieve the current state (Varied On, Varied Off or Pending) of the drive whose identifier is provided by the URI path template “identifier”. The identifier can be the physical or logical serial number of the drive or the drive coordinate in the following format:

“frame,rack,section,column,row” (aml/drive/2,1,4,1,1/operations/state).

The coordinate should be used when varying on a drive, because the drive serial numbers are not reported when the drive is in the Pending state.

A single string value will be returned and the possible values are:

1 (Varied On), 2 (Varied Off) and 3 (Pending/Initializing)

URI	aml/drive/{identifier}/operations/state
Method	GET
User Role Access	Admin, Service, User
Version	700(i6k), 110(i3/i6)
Parameters	N/A
Request Header	N/A
Request Data	N/A
Response Codes	200, 404
Response Header	Content-Type:text/plain or application/json
Response Data	1, 2 or 3

Table 96: PUT aml/drive/{identifier}/operations/state

Product Support: Scalar i6k, Scalar i3, Scalar i6

Description: Change the drive state, 1 (Vary On) or 2 (Vary Off). This option should be used when replacing a drive.

The identifier can be the physical or logical serial number of the drive or the drive coordinate in the following format:

“frame,rack,section,column,row” (aml/drive/2,1,4,1,1/operations/state).

The coordinate should be used when varying on a drive, because the drive serial numbers are not reported when the drive is in the Pending state.

URI	aml/drive/{identifier}/operations/state
Method	PUT
User Role Access	i6k - Admin, Service i3/i6 – Admin, Service, User (Partition Access Required)
Version	700(i6k), 110(i3/i6)
Parameters	N/A
Request Header	Content-Type:text/plain or application/json
Request Data	1 or 2
Response Codes	200, 403, 404
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 203: WSResultCode

Table 97: POST aml/drive/{serialNumber}/operations/test

Product Support: Scalar i6k, Scalar i3, Scalar i6

Description: Run a drive self-test on the drive whose serial number is provided by the URI path template “serialNumber”. The serialNumber can be the drive’s logical or physical serial number.

URI	<i>aml/drive/{serialNumber}/operations/test</i>
Method	POST
User Role Access	i6k - Admin, Service i3/i6 - Admin, Service, User (Partition Access Required)
Version	700(i6k), 110(i3/i6)
Parameters	N/A
Request Header	N/A
Request Data	N/A
Response Codes	200, 403, 404
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 203: WSResultCode

Table 98: POST *aml/drive/{serialNumber}/operations/wrapTest*

Product Support: Scalar i3, Scalar i6

Description: Perform a drive wrap test on the drive whose serial number is provided by the URI path template “serialNumber”. The serialNumber can be the drive’s logical or physical serial number.

Note: This test requires that a wrap test tool be applied to the tape drive interface port(s).

URI	<i>aml/drive/{serialNumber}/operations/wrapTest</i>
Method	POST
User Role Access	Admin, Service, , User (Partition Access Required)
Version	110(i3/i6)
Parameters	N/A
Request Header	N/A
Request Data	N/A
Response Codes	200, 403, 404
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 203: WSResultCode

Table 99: GET *aml/drive/{serialNumber}/ports*

Product Support: Scalar i6k, Scalar i3, Scalar i6

Description: Retrieve the drive ports resources whose serial number is given by the URI path template “serialNumber”. The serialNumber can be the drives logical or physical serial number.

This will report both actual and requested topology and speed values for each port.

URI	<i>aml/drive/{serialNumber}/ports</i>
Method	GET
User Role Access	Admin, Service, User
Version	700(i6k), 110(i3/i6)

URI	aml/drive/{serialNumber}/ports
Parameters	Query parameter names are “configuration”. Valid values for configuration are “actual” and “requested”
Request Header	N/A
Request Data	N/A
Response Codes	200, 404
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 38: drivePorts

Table 100: PUT aml/drive/{serialNumber}/ports

Product Support: Scalar i6k, Scalar i3, Scalar i6

Description: Modify the port settings for the drive whose serial number is given by the URI path template “serialNumber”. The serialNumber can be the drive’s logical or physical serial number.

The example below changes the requested topology to loop (3) and request speed to 2Gb (2) and loop id to 10:

The required fields are:

```
<ns2:drivePorts xmlns:ns2="http://automatedMediaLibrary/">
  <serialNumber>logical serial number</serialNumber>
  <!-- OR -->
  <physicalSerialNumber>physical serial number</physicalSerialNumber>
  <ports>
    <port>
      <id>1</id>
      <topology>
        <requested>3</requested>
      </topology>
      <loopId>10</loopId>
      <speed>
        <requested>2</requested>
      </speed>
    </port>
  </ports>
</ns2:drivePorts>
```

Note: When modifying port settings that have ‘actual’ and ‘requested’ elements, the ‘requested’ element must be used. The ‘actual’ cannot be modified, it is used only to report what the drive setting actual is, which may be different than what was requested. Requested settings are requested for a drive, regardless of the drive having 1 or 2 interface ports. Requests are modified via port id 1.

URI	aml/drive/{serialNumber}/ports
Method	PUT
User Role Access	Admin, Service
Version	700(i6k), 110(i3/i6)
Parameters	N/A

URI	aml/drive/{serialNumber}/ports
Request Header	Content-Type:application/xml or application/json
Request Data	See Figure 38: drivePorts
Response Codes	200, 403, 404
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 38: drivePorts

Table 101: GET aml/drive/{serialNumber}/log

Product Support: Scalar i6k, Scalar i3, Scalar i6

Description: Retrieve the drive log whose serial number is given by the URI path template “serialNumber”. The “serialNumber” can be either the physical or logical serial number of the drive. For example, to retrieve a drive log whose serial number is DR1002 use the following URI:

aml/drive/DR1002/log

Note: The drives in a Scalar i6k must be connected to an I/O Blade or Ethernet Expansion Blade for this feature to work.

URI	aml/drive/{serialNumber}/log
Method	GET
User Role Access	Admin, Service
Version	700(i6k), 110(i3/i6)
Parameters	Optional query parameter is save, with the following valid values save="name" where name is a file name to use to save the log data to. The save="name" query parameter should be used by a client browser to allow the data to be saved by the browser to a file. A default "name" is provided.
Request Header	N/A
Request Data	N/A
Response Codes	200, 403, 404
Response Header	Content-Type: application/octet-stream, application/xml, application/json Cookie name= FileDownloadingProgressCookie
Response Data	Byte Stream if request completes successfully, otherwise See Figure 203: WSResultCode

Table 102: POST aml/drive/{serialNumber}/log/email

Product Support: Scalar i6k, Scalar i3, Scalar i6

Description: Email the drive log report whose serial number is given by the URI path

template “serialNumber”. The “serialNumber” can be either the physical or logical serial number of the drive.

The information will be in an email attachment.

Note: The drives in a Scalar i6k must be connected to an I/O Blade or Ethernet Expansion Blade for this feature to work.

URI	<i>aml/drive/{serialNumber}/log/email</i>
Method	POST
User Role Access	Admin, Service
Version	700(i6k), 110(i3/i6)
Parameters	N/A
Request Header	Content-Type: application/xml, application/json
Request Data	See Figure 63: email
Response Codes	200, 403, 404
Response Header	Content-Type: application/xml, application/json
Response Data	See Figure 203: WSResultCode

Table 103: GET *aml/drive/{serialNumber}/mode*

Product Support: Scalar i6k, Scalar i3, Scalar i6

Description: Retrieve the current mode (Online/Offline) of the drive whose serial number is provided by the URI path template “serialNumber”. The “serialNumber” can be either the physical or logical serial number of the drive.

A single string value will be returned and the possible values are:

1 (Online), or 2 (Offline)

URI	<i>aml/drive/{serialNumber}/mode</i>
Method	GET
User Role Access	Admin, Service, User
Version	700(i6k), 110(i3/i6)
Parameters	N/A
Request Header	N/A
Request Data	N/A
Response Codes	200, 404
Response Header	Content-Type: test/plain, application/json
Response Data	1 or 2

Table 104: PUT *aml/drive/{serialNumber}/mode*

Product Support: Scalar i6k, Scalar i3, Scalar i6

Description: Change the drive mode of the drive whose serial number is provided by the URI path template “serialNumber”. The “serialNumber” can be either the physical or logical serial number of the drive.

The mode can be, 1 (Online) or 2 (Offline). This option should be used to block hosts from moving media to a drive (mode offline). When offline a Read Element Status will report an ASC 0x83 ASCQ 0x05 and moves are rejected with an ASC 0x83 ASCQ 0x05.

A situation where the drive should be taken offline is when updating drive firmware.

URI	<i>aml/drive/{serialNumber}/mode</i>
Method	PUT
User Role Access	i6k - Admin, Service i3/i6 – Admin, Service, User (Partition Access Required)
Version	700(i6k), 110(i3/i6)
Parameters	N/A
Request Header	Content-Type: text/plain, application/json
Request Data	1 or 2
Response Codes	200, 403, 404
Response Header	Content-Type: application/xml, application/json
Response Data	See Figure 203: WSResultCode

Table 105: POST *aml/drive/{serialNumber}/removeITNexus*

Product Support: Scalar i6k

Description: Remove the IT Nexus from the drive with the serial number given by URI path template “serialNumber”. The “serialNumber” can be either the physical or logical serial number of the drive.

The drive will clear all SCSI-host defined Initiator-Target (IT) reservations and media removal settings. This functionality applies to HP LTO5 and greater drives only.

URI	<i>aml/drive/{serialNumber}/removeITNexus</i>
Method	POST
User Role Access	Admin, Service
Version	700(i6k)
Parameters	N/A
Request Header	N/A
Request Data	N/A
Response Codes	200, 403, 404
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 203: WSResultCode

Table 106: GET *aml/enum*

Product Support: Scalar i6k, Scalar i3, Scalar i6

Description: Retrieve all the enum resource instances. The enum resources describe the name value pairs for certain XML object elements. For example, the RASGroup object has a property group and a value of 1. To determine the value of 1, the componentList component name “RASGroup” contains keys for all possible values for an element name “group”, and the value of 1 is “Connectivity”. See the XML response

data below:

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<componentList xmlns:ns2="http://automatedMediaLibrary/">
  <component name="RASGroup">
    <element name="group">
      <entry key="1" value="Connectivity"/>
      <entry key="2" value="Control"/>
      <entry key="3" value="Media"/>
      <entry key="4" value="Drives"/>
      <entry key="5" value="Power"/>
      <entry key="6" value="Robotics"/>
      <entry key="7" value="Library"/>
    </element>
  </component>
  <component name="RASGroupStatus">
    <element name="group">
      <entry key="1" value="Connectivity"/>
      <entry key="2" value="Control"/>
      <entry key="3" value="Media"/>
      <entry key="4" value="Drives"/>
      <entry key="5" value="Power"/>
      <entry key="6" value="Robotics"/>
      <entry key="7" value="Library"/>
    </element>
    <element name="status">
      <entry key="1" value="Good"/>
      <entry key="2" value="Failed"/>
      <entry key="3" value="Degraded"/>
      <entry key="4" value="Warning"/>
      <entry key="5" value="Informational"/>
      <entry key="6" value="Unknown"/>
      <entry key="7" value="Invalid"/>
      <entry key="8" value="Attention"/>
    </element>
  </component>
  </component>
  ....
  ....
</componentList>
```

URI	aml/enum
Method	GET
User Role Access	Admin, Service, User
Version	700(i6k), 110(i3/i6)
Parameters	N/A
Request Header	N/A
Request Data	N/A
Response Codes	200
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 18: componentList

Table 107: GET aml/enum/{component}

Product Support: Scalar i6k, Scalar i3, Scalar i6

Description: Retrieve the enum resource instance whose component is given by the URI path template “component”. This is similar to the aml/enum resource, except this URI should returns only the elements for the specific path component template parameter. The example output below shows the response for the component “RASGroup”. The URI “aml/enum/RASGroup” returns the response data below:

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<elementList xmlns:ns2="http://automatedMediaLibrary/">
  <component name="RASGroup">
    <element name="group">
      <entry key="1" value="Connectivity"/>
      <entry key="2" value="Control"/>
      <entry key="3" value="Media"/>
      <entry key="4" value="Drives"/>
      <entry key="5" value="Power"/>
      <entry key="6" value="Robotics"/>
      <entry key="7" value="Library"/>
    </element>
  </component>
</elementList>
```

URI	aml/enum/{component}
Method	GET
User Role Access	Admin, Service, User
Version	700(i6k), 110(i3/i6)
Parameters	N/A
Request Header	N/A
Request Data	N/A
Response Codes	200, 404
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 18: componentList (ENUM)

Table 108: GET aml/enum/{component}/{element}

Product Support: Scalar i6k, Scalar i3, Scalar i6

Description: Retrieve the enum component and element resource instance given by the URI path template “component” and “element”. The URI “aml/enum/partition/interfaceType” will return the response data below:

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<entryList xmlns:ns2="http://automatedMediaLibrary/">
  <component name="partition">
    <element name="interfaceType">
      <entry key="1" value="SCSI"/>
      <entry key="10" value="Mixed"/>
      <entry key="2" value="Fibre"/>
      <entry key="3" value="SAS"/>
    </element>
  </component>
</entryList>
```

```
</component>
</entryList>
```

URI	<i>aml/enum/{component}/{element}</i>
Method	GET
User Role Access	Admin, Service, User
Version	700(i6k), 110(i3/i6)
Parameters	N/A
Request Header	N/A
Request Data	N/A
Response Codes	200, 404
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 68: entryList (ENUM)

Table 109: GET aml/media

Product Support: Scalar i6k, Scalar i3, Scalar i6

Description: Retrieve the media resource instances.

URI	<i>aml/media</i>
Method	GET
User Role Access	Admin, Service, User
Version	700(i6k), 110(i3/i6)
Parameters	<p>Query parameters are partition, location, start, length, frame, rack, type, status, and save, and have the following values:</p> <ul style="list-style-type: none"> • partition=name of partition • location="storage", "drive", "ie" or "xie" Range parameters • start=0-n • length=1-n or -1 for all media. • frame=0 – maximum number of frames • rack = 1 or 2 • type= 3(LTO2), 4(LTO3), 5(LTO4), 6(LTO5), 7(LTO6), 8(LTO7), 20(Cleaning) • status="used" or "available" • save="name" where name is a file name to use to save the media information to. The file format will be CSV. (i6k Only) • sharedIE=true or false. (i3/i6 Only) • includePreviousOwner=true. This will prompt the server to include the previousOwner information of the media object. This information is only supported by the Scalar i6k version 738 or higher. • fields=A comma separate list of media

URI	aml/media
	<p>object elements you want to get values for. The elements that are supported are barcode, coordinate, currentOwner, encryption and mediaType. This query parameter is provided to improve performance on libraries with large numbers of media. This is only supported for the Scalar i6k.</p> <p>The save="name" query parameter should be used by a client browser to allow the data to be saved by the browser to a file. A default "name" is provided.</p> <p>The sharedIE query parameter is an indication of whether or not shared IE media (unassigned media in an IE slot while the library is in auto assignment mode) should specifically be included or excluded from the media list. If true, shared IE media will be included. If false, shared IE media are excluded. For example /media?status=available , by default, includes shared IE media. Adding sharedIE=false (/media?used=available&sharedIE=false) will exclude the shared IE media from the list.</p> <p>So to retrieve all media in one call, "aml/media?start=0&length=-1" which is the default if no range is specified. To retrieve all media belonging to partition named TEST use "aml/media?partition=TEST". To retrieve all media in IE stations use "aml/media?location=ie". To retrieve the first 50 media belonging to partition TEST use "aml/media?partition=TEST&start=0&length=50".</p> <p>Note: When using the range parameters, the media are sorted by their barcodes.</p>
Request Header	N/A
Request Data	N/A
Response Codes	200, 404
Response Header	Content-Type:application/xml or application/json On success and save= parameter is used Cookie: name= FileDownloadingProgressCookie, value=Done
Response Data	See Figure 129: mediaList

Table 110: GET aml/media/cleaning

Product Support: Scalar i6k, Scalar i3, Scalar i6

Description: Retrieve a list of cleaning media resources. These are specific media used for drive cleaning.

Note: The cleaningMedia.state element is not supported on the i6k.

URI	aml/media/cleaning
Method	GET
User Role Access	Admin, Service, User
Version	700(i6k), 110(i3/i6)
Parameters	N/A
Request Header	N/A
Request Data	N/A
Response Codes	200
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 14: cleaningMediaList

Table 111: GET aml/media/edlm

Product Support: Scalar i6k, Scalar i6

Description: Retrieve a list of EDLM media resources. These resources describe all the media in the library, except for media that are located in IE slots or drives, and whether they have been tested by the EDLM feature. The list can be used to determine which media may need to have tests started. If a media has never been scanned, the value of the testType, testPriority, testState and testResult elements of the edlmMedia object can be ignored.

URI	aml/media/edlm
Method	GET
User Role Access	Admin, Service, User
Version	700(i6k), 110(i6)
Parameters	The following query parameters are supported, partition, barcode, start, length, period, state, type and date with the following values: partition=name (request only media belonging to this partition) barcode=the media barcode to filter on start=0-n (range parameter) length=1-n or -1 for all records period=the last number of days to include in the data reported. So if you want to report for the last 3 months, you would specify 90. date=At what date (the lastTested field of the edlmMedia object is used) you want to start your query. The data returned will include all records that are equal or older than the date

URI	aml/media/edlm
	<p>specified and applied against the lastTested field of the edlmMedia object. When used with the period parameter, the data returned will include all records that are equal or older than the date specified up to the period (number of days) specified. The date format expected is “yyyy-MM-dd HH:mm:ss” or “yyyy-MM-dd HH:mm:ss Z”, the Z (time zone) will be ignored.</p> <p>state=the current/last test state: 1(pending), 2(In progress), 3(Complete), 4(Stopped), 5(Paused) or 6(Resume)</p> <p>type=the test type of the current/last test type: 1(Quick Scan), 2(Normal Scan) or 3(Full Scan).</p>
Request Header	N/A
Request Data	N/A
Response Codes	200
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 42: edlmMediaList

Table 112: POST aml/media/edlm

Product Support: Scalar i6k, Scalar i6

Description: Start a new EDLM test session using the edlmMediaObject list. The required fields of the edlmMedia object are:

edlmMedia.barcode and edlmMedia.testType. Scalar i6 libraries require also that the coordinate be specified.

You can also set the edlmMedia.testPriority field.

This call is asynchronous, and the location headed in the response will report the new session id URI that can be used to determine the test state.

URI	aml/media/edlm
Method	POST
User Role Access	Admin, Service
Version	700(i6k), 110(i6)
Parameters	N/A
Request Header	Content-Type: application/xml or application/json
Request Data	See Figure 42: edlmMediaList
Response Codes	200(i6k), 201(i3/i6), 403, 404
Response Header	Content-Type: application/xml or application/json Location: aml/media/edlm/session/#
Response Data	See Figure 203: WSResultCode

Table 113: GET aml/media/edlm/results

Product Support: Scalar i6k, Scalar i6

Description: Retrieve a list of EDLM media result resources. These resources report the results of media that have been tested by the EDLM feature. Media may have more than one result, depending on how many times it has been tested.

<i>URI</i>	<i>aml/media/edlm/results</i>
Method	GET
User Role Access	Admin, Service, User
Version	700(i6k), 110(i6)
Parameters	<p>The following query parameters are supported: partition, barcode, start, length, period, state, type and date, with the following values:</p> <ul style="list-style-type: none"> • partition=name (request only results for media belonging to this partition) • barcode=the media barcode to filter on • start=0-n (range parameter) • length=1-n or -1 for all records • period=the last number of days to include in the data reported. So if you want to report for the last 3 months, you would specify 90. • date=At what date (the testDate (this is the date the media was last scanned) of the edlmMediaResult object field is used) you want to start your query. The data returned will include all records that are equal or older than the date specified and applied against the testDate field of the edlmMediaResult object. When used with the period parameter, the data returned will include all records that are equal or older than the date specified up to the period (number of days) specified. The date format expected is “yyyy-MM-dd HH:mm:ss” or “yyyy-MM-dd HH:mm:ss Z”, the Z (time zone) will be ignored. • state=the current/last test state: 1(pending), 2(In progress), 3(Complete), 4(Stopped), 5(Paused) or 6(Resume) • type=the test type of the current/last test type: 1(Quick Scan), 2(Normal Scan) or 3(Full Scan). • sessionId=the session id that kicked off the test
Request Header	N/A

URI	<i>aml/media/edlm/results</i>
Request Data	N/A
Response Codes	200
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 44: edlmMediaResultList

Table 114: GET *aml/media/edlm/result/{id}*

Product Support: Scalar i6k, Scalar i6

Description: Retrieve the EDLM media result resource instance whose id is given by the URI path template “id”.

URI	<i>aml/media/edlm/result/{id}</i>
Method	GET
User Role Access	Admin, Service, User
Version	700(i6k), 110(i6)
Parameters	N/A
Request Header	N/A
Request Data	N/A
Response Codes	200, 404
Response Header	Content-Type: application/xml or application/json
Response Data	See Figure 45: edlmMediaResult

Table 115: DELETE *aml/media/edlm/result/{id}*

Product Support: Scalar i6k, Scalar i6

Description: Delete the EDLM media result resource instance whose id is given by the URI path template “id”.

URI	<i>aml/media/edlm/result/{id}</i>
Method	DELETE
User Role Access	Admin, Service
Version	700(i6k), 110(i6)
Parameters	N/A
Request Header	N/A
Request Data	N/A
Response Codes	200, 403, 404
Response Header	Content-Type: application/xml or application/json
Response Data	See Figure 45: edlmMediaResult

Table 116: GET *aml/media/edlm/sessions*

Product Support: Scalar i6k, Scalar i6

Description: Retrieve a list of EDLM session resources. These session resources

report the status of a collection of media that have either been tested, are currently being tested or are scheduled to be tested. When a user initiates an EDLM test, see Table 112: POST `aml/media/edlm`, a new session is created and it aggregates the results of the media being tested.

URI	<i>aml/media/edlm/sessions</i>
Method	GET
User Role Access	Admin, Service, User
Version	700(i6k), 110(i6)
Parameters	The following query parameters are supported, active with the following values: <ul style="list-style-type: none"> active = true. When this parameter is requested, only sessions that are in a state of Pending (2), Paused (4) or In Progress (8) will be reported. This query parameter was added in version 750.
Request Header	N/A
Request Data	N/A
Response Codes	200
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 50: <code>edlmSessionList</code>

Table 117: GET `aml/media/edlm/session/{id}`

Product Support: Scalar i6k, Scalar i6

Description: Retrieve the EDLM session resource instance whose id is given by the URI path template “id”.

URI	<i>aml/media/edlm/session/{id}</i>
Method	GET
User Role Access	Admin, Service, User
Version	700(i6k), 110(i6)
Parameters	N/A
Request Header	N/A
Request Data	N/A
Response Codes	200, 404
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 51: <code>edlmSession</code>

Table 118: PUT `aml/media/edlm/session/{id}/operations/pause`

Product Support: Scalar i6k, Scalar i6

Description: Pause the EDLM media tests that were started by the session resource instance whose id is given by the URI path template “id”. The tests that will be paused must have a current test state of Pending.

URI	<i>aml/media/edlm/session/{id}/operations/pause</i>
Method	PUT
User Role Access	Admin, Service
Version	700(i6k), 110(i6)
Parameters	N/A
Request Header	N/A
Request Data	N/A
Response Codes	200, 403, 404
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 203: WSResultCode

Table 119: PUT *aml/media/edlm/session/{id}/operations/resume*

Product Support: Scalar i6k, Scalar i6

Description: Resume the EDLM media tests that were started by the session resource instance whose id is given by the URI path template “id”. Tests with a current test state of paused will be resumed.

URI	<i>aml/media/edlm/session/{id}/operations/resume</i>
Method	PUT
User Role Access	Admin, Service
Version	700(i6k), 110(i6)
Parameters	N/A
Request Header	N/A
Request Data	N/A
Response Codes	200, 403, 404
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 203: WSResultCode

Table 120: PUT *aml/media/edlm/session/{id}/operations/stop*

Product Support: Scalar i6k, Scalar i6

Description: Stop the EDLM media tests that were started by the session resource instance whose id is given by the URI path template “id”. Tests with a current test state of paused, pending or in progress will be stopped.

URI	<i>aml/media/edlm/session/{id}/operations/stop</i>
Method	PUT
User Role Access	Admin, Service
Version	700(i6k), 110(i6)
Parameters	N/A
Request Header	N/A
Request Data	N/A
Response Codes	200, 403, 404
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 203: WSResultCode

Table 121: POST aml/media/operations/moveMedium**Product Support:** Scalar i6k, Scalar i3, Scalar i6

Description: Move a media from its source coordinate to the destination coordinate. The destination coordinate must be empty and can be any element type storage, drive, I/E or extended I/E.

The mode element should be set to 2 if the partition involved in the move operation is to be taken offline before the move and put back online after the move. It is not necessary to take the partition offline and then back online since the host will be notified that there was an inventory change when a media is moved to/from a partition.

When moving media from a drive (unload) use the mediaHomeCoordinate element of the drive object (see Figure 28: drive), to determine the slot coordinate where the media came from (this will be the destinationCoordinate).

URI	aml/media/operations/moveMedium
Method	POST
User Role Access	Admin, Service, User (Partition Access Required)
Version	700(i6k), 110(i3/i6)
Parameters	N/A
Request Header	Content-Type:application/xml or application/json
Request Data	See Figure 138: moveMedium
Response Codes	200, 403, 404
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 203: WSResultCode

Table 122: GET aml/media/reports/crossPartitionMoves**Product Support:** Scalar i6k, Scalar i6

Description: Retrieve the cross partition moves report. This report contains a list of media that have been moved from one partition to another partition.

URI	aml/media/reports/crossPartitionMoves
Method	GET
User Role Access	Admin, Service, User
Version	700(i6k), 110(i3/i6)
Parameters	The following query parameters are supported, start, length, period, date, save with the following values: Range parameters <ul style="list-style-type: none"> • start=0-n • length=1-n or -1 for all records • period=the last number of days to include in the report. So if you want to report for the last 3 months, you would

URI	aml/media/reports/crossPartitionMoves
	<p>specify 90.</p> <ul style="list-style-type: none"> • date=At what date you want to start your query. The data returned will include all records that are equal or older than the date specified. When used with the period parameter, the data returned will include all records that are equal or older than the date specified up to the period (number of days) specified. The date format expected is “yyyy-MM-dd HH:mm:ss” or “yyyy-MM-dd HH:mm:ss Z”, the Z (time zone) will be ignored. • partition=the source or destination partition name to filter on. • barcode=the barcode of the media that was moved • type=the source or destination partition type involved in the move, 1(Standard), 2(EDLM), 3(AMP) or 4(Active Vault). • save=”name” where name is a file name to use to save the cross partition media move information to. The file format will be CSV. <p>The save=”name” query parameter should be used by a client browser to allow the data to be saved by the browser to a file. A default “name” is provided.</p> <p>If no query parameters are used the request will return all the cross partition move data.</p>
Request Header	N/A
Request Data	N/A
Response Codes	200, 404
Response Header	Content-Type:application/xml or application/json On success Cookie: name=FileDownloadingProgressCookie, value=Done
Response Data	See Figure 22: crossPartitionMovesList

Table 123: POST aml/media/reports/crossPartitionMoves/email

Product Support: Scalar i6k, Scalar i6

Description: Email the list of cross partition media move records.

The information will be in an email attachment and the file format will be CSV.

The reportCriteria object supports the same query parameters as Table 122: GET aml/media/reports/crossPartitionMoves.

URI	aml/media/reports/crossPartitionMoves/email
Method	POST
User Role Access	Admin, Service
Version	700(i6k), 110(i3/i6)
Parameters	N/A
Request Header	Content-Type:application/xml or application/json
Request Data	See Figure 63: email
Response Codes	200, 403, 404
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 203: WSResultCode

Table 124: GET aml/media/reports/edlm

Product Support: Scalar i6k, Scalar i6

Description: Retrieve the EDLM Scan Test report resource. This report contains a list of media that have been scanned by the EDLM drive(s) installed in the library.

Note: This is a licensed feature (EDLM).

URI	aml/media/reports/edlm
Method	GET
User Role Access	Admin, Service, User
Version	110(i6)
Parameters	<p>The following query parameters are supported, start, length, period, date, barcode, driveSerialNumber, partition, type, result and save with the following values:</p> <p>Range parameters</p> <ul style="list-style-type: none"> • start=0-n • length=1-n or -1 for all records • period=the last number of days to include in the report. So if you want to report for the last 3 months, you would specify 90. • date=At what date you want to start your query. The data returned will include all records that are equal or older than the date specified. When used with the period parameter, the data returned will include all records that are equal or older than the date specified up to the period (number of days) specified. The date format expected is “yyyy-MM-dd HH:mm:ss” or “yyyy-MM-dd HH:mm:ss Z”, the Z (time zone) will be ignored. • barcode=the specific media barcode

<i>URI</i>	<i>aml/media/reports/edlm</i>
	<p>you want to query on.</p> <ul style="list-style-type: none"> • driveSerialNumber=the EDLM drive serial number (physical) that was used to scan the media. • partition=the name of the partition who last owned the media. • type=the test scan type to filter on, the valid values are 1(Quick), 2(Normal) and 3(Full). • result=the test result to filter on, the valid values are 1(Good), 2(Untested), 3(Suspect) and 3(Failed) • save="name" where name is a file name to use to save the cross partition media move information to. The file format will be CSV. <p>The save="name" query parameter should be used by a client browser to allow the data to be saved by the browser to a file. A default "name" is provided.</p> <p>If no query parameters are used the request will return all the media that have been tested/scanned.</p>
Request Header	N/A
Request Data	N/A
Response Codes	200, 404
Response Header	Content-Type:application/xml or application/json On success Cookie: name=FileDownloadingProgressCookie, value=Done
Response Data	See Figure 46: edlmMediaScanTestList

Table 125: POST *aml/media/reports/edlm/email*

Product Support: Scalar i6k, Scalar i6

Description: Email the EDLM Scan Test report.

The information will be in an email attachment and the file format will be CSV.

The reportCriteria object supports the same query parameters as Table 124: GET *aml/media/reports/edlm*, to filter on result, use the reportCriteria.state element.

Note: This is a licensed feature (EDLM).

<i>URI</i>	<i>aml/media/reports/edlm/email</i>
Method	POST
User Role Access	Admin, Service
Version	110(i6)

URI	<i>aml/media/reports/edlm/email</i>
Parameters	N/A
Request Header	Content-Type:application/xml or application/json
Request Data	See Figure 63: email
Response Codes	200, 403, 404
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 203: WSResultCode

Table 126: aml/media/reports/heatMap

Product Support: Scalar i6k, Scalar i3, Scalar i6

Description: Retrieve the heat map resource data. This data is used to build the Web UI heat map graphs. Data for all drives and media, including EDLM partitions is returned.

URI	<i>aml/media/reports/heatMap</i>
Method	GET
User Role Access	Admin, Service, User
Version	110(i3/i6)
Parameters	<p>The following query parameters are supported, period, date, partition, drives and barcodes</p> <p>Range parameters</p> <ul style="list-style-type: none"> • period=the last number of days to include in the report. So if you want to report for the last 3 months, you would specify 90. • date=At what date you want to start your query. The data returned will include all records that are equal or older than the date specified. When used with the period parameter, the data returned will include all records that are equal or older than the date specified up to the period (number of days) specified. The date format expected is “yyy-MM-dd HH:mm:ss” or “yyy-MM-dd HH:mm:ss Z”, the Z (time zone) will be ignored. • partition=the name of the partition that owns the drives you want to query on. • drives=a comma separated list of drive serial numbers (physical) you want to filter on. • barcodes=a comma separated list of media barcodes you want to filter on. <p>If no query parameters are used the request will return all the heat map data.</p>
Request Header	N/A

URI	aml/media/reports/heatMap
Request Data	N/A
Response Codes	200, 404
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 98: driveMediaHeatMapList

Table 127: GET aml/media/reports/inventory

Product Support: Scalar i6k

Description: Retrieve the media inventory resource instances.

URI	aml/media/reports/inventory
Method	GET
User Role Access	Admin, Service, User
Version	700(i6k)
Parameters	<p>Query parameters are partition, location, start, length, frame, rack and have the following values:</p> <ul style="list-style-type: none"> • partition=name of partition • location="storage", "drive" or "ie" <p>Range parameters</p> <ul style="list-style-type: none"> • start=0-n • length=1-n or -1 for all media. • frame=0 – maximum number of frames • rack = 1 or 2 <ul style="list-style-type: none"> • save="name" where name is a file name to use to save the media inventory information to. The file format will be CSV. <p>The save="name" query parameter should be used by a client browser to allow the data to be saved by the browser to a file. A default "name" is provided.</p> <p>Note: When using the range parameters, the media are sorted by their barcodes.</p>
Request Header	N/A
Request Data	N/A
Response Codes	200, 404
Response Header	Content-Type:application/xml or application/json, text/plain
Response Data	See Figure 129: mediaList

Table 128: POST aml/media/reports/inventory/email

Product Support: Scalar i6k

Description: Email the list of media records.

The information will be in an email attachment and the file format will be CSV.

<i>URI</i>	<i>aml/media/reports/inventory/email</i>
Method	POST
User Role Access	Admin, Service
Version	700(i6k)
Parameters	N/A
Request Header	Content-Type:application/xml or application/json
Request Data	See Figure 63: email
Response Codes	200, 403
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 203: WSResultCode

Table 129: GET aml/media/reports/securityEvents

Product Support: Scalar i6k, Scalar i3, Scalar i6

Description: Retrieve the list of media security records.

The media security records provide information as to which tape cartridge was removed either expectedly (properly exported) or removed unexpectedly (removed during open door condition or while library was powered off) to assist administrators with tape cartridge inventory verifications.

Note: This is a licensed feature (Advanced Reporting).

<i>URI</i>	<i>aml/media/reports/securityEvents</i>
Method	GET
User Role Access	i6k - Admin, Service, User i3/i6 - Admin, Service
Version	700(i6k), 110(i3/i6)
Parameters	The following query parameters are supported, start, length, period, date, barcode, save with the following values: <ul style="list-style-type: none">• start=0-n• length=1-n or -1 for all records• period=the last number of days to include in the report. So if you want to report for the last month, you would specify 30.• date=At what date you want to start your query. The data returned will

<i>URI</i>	<i>aml/media/reports/securityEvents</i>
	<p>include all records that are equal or older than the date specified. When used with the period parameter, the data returned will include all records that are equal or older than the date specified up to the period (number of days) specified. The date format expected is “yyyy-MM-dd HH:mm:ss” or “yyyy-MM-dd HH:mm:ss Z”, the Z (time zone) will be ignored.</p> <ul style="list-style-type: none"> • barcode=The media barcode • save=”name” where name is a file name to use to save the security event information to. The file format will be CSV. <p>The save=”name” query parameter should be used by a client browser to allow the data to be saved by the browser to a file. A default “name” is provided.</p> <p>If no query parameters are used the request will return all the media security event data.</p>
Request Header	N/A
Request Data	N/A
Response Codes	200, 403
Response Header	Content-Type:application/xml or application/json On success and save= parameter is used Cookie: name=FileDownloadingProgressCookie, value=Done
Response Data	See Figure 131: mediaSecurityEventList

Table 130: POST aml/media/reports/securityEvents/email

Product Support: Scalar i6k, Scalar i3, Scalar i6

Description: Email the list of media security records.

The information will be in an email attachment and the file format will be CSV.

The reportCriteria object supports the same query parameters as Table 129: GET aml/media/reports/securityEvents.

Note: This is a licensed feature (Advanced Reporting).

<i>URI</i>	<i>aml/media/reports/securityEvents/email</i>
Method	POST
User Role Access	Admin, Service
Version	700(i6k), 110(i3/i6)
Parameters	N/A

URI	<i>aml/media/reports/securityEvents/email</i>
Request Header	Content-Type: application/xml or application/json
Request Data	See Figure 63: email
Response Codes	200, 403
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 203: WSResultCode

Table 131: GET *aml/media/reports/tapeAlerts*

Product Support: Scalar i6k, Scalar i3, Scalar i6

Description: Retrieve the list of tape alert records.

Note: This is a licensed feature (Advanced Reporting).

URI	<i>aml/media/reports/tapeAlerts</i>
Method	GET
User Role Access	i6k - Admin, Service, User i3/i6 - Admin, Service
Version	700(i6k), 110(i3/i6)
Parameters	<p>The following query parameters are supported, start, length, period, date, driveSerialNumber, barcode, save with the following values:</p> <ul style="list-style-type: none"> • start=0-n • length=1-n or -1 for all records • period=the last number of days to include in the report. So if you want to report for the last week, you would specify 7. • date=At what date you want to start your query. The data returned will include all records that are equal or older than the date specified. When used with the period parameter, the data returned will include all records that are equal or older than the date specified up to the period (number of days) specified. The date format expected is “yyyy-MM-dd HH:mm:ss” or “yyyy-MM-dd HH:mm:ss Z”, the Z (time zone) will be ignored. • driveSerialNumber= The physical serial number of the drive • barcode=The media barcode • save=”name” where name is a file name to use to save the tape alert information to. The file format will be CSV. <p>The save=”name” query parameter should be</p>

URI	<i>aml/media/reports/tapeAlerts</i>
	used by a client browser to allow the data to be saved by the browser to a file. A default "name" is provided. If no query parameters are used the request will return all the tape alert data.
Request Header	N/A
Request Data	N/A
Response Codes	200
Response Header	Content-Type:application/xml or application/json On success and save= parameter is used Cookie: name= FileDownloadingProgressCookie, value=Done
Response Data	See Figure 187: tapeAlertList

Table 132: POST *aml/media/reports/tapeAlerts/email*

Product Support: Scalar i6k, Scalar i3, Scalar i6

Description: Email the list of drive tape alert records.

The tape alert records provide information as to which drive reported which Tape Alert while being loaded with which tape cartridge. The report information provides details to allow further analysis as to which media or which drive may be a cause for media or drive failures.

The information will be in an email attachment and the file format will be CSV.

The reportCriteria object supports the same query parameters as Table 131: GET *aml/media/reports/tapeAlerts*.

Note: This is a licensed feature (Advanced Reporting).

URI	<i>aml/media/reports/tapeAlerts/email</i>
Method	POST
User Role Access	Admin, Service
Version	700(i6k), 110(i3/i6)
Parameters	N/A
Request Header	Content-Type:application/xml or application/json
Request Data	Figure 63: email
Response Codes	200, 403
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 203: WSResultCode

Table 133: GET aml/media/reports/usage

Product Support: Scalar i6k, Scalar i3, Scalar i6

Description: Retrieve the list of media usage records.

The media usage records provides media information capturing tape cartridge identification and media capacity and usage information as well as unrecovered and recovered read/write error count statistics.

Note: This is a licensed feature (Advanced Reporting).

<i>URI</i>	<i>aml/media/reports/usage</i>
Method	GET
User Role Access	I6k - Admin, Service, User i3/i6 – Admin, Service
Version	700(i6k), 110(i3/i6)
Parameters	<p>The following query parameters are supported, start, length, period, date, barcode, save with the following values:</p> <ul style="list-style-type: none"> • start=0-n • length=1-n or -1 for all records • period=the last number of days to include in the report. So if you want to report for the last month, you would specify 30. • date=At what date you want to start your query. The data returned will include all records that are equal or older than the date specified. When used with the period parameter, the data returned will include all records that are equal or older than the date specified up to the period (number of days) specified. The date format expected is “yyyy-MM-dd HH:mm:ss” or “yyyy-MM-dd HH:mm:ss Z”, the Z (time zone) will be ignored. • barcode=The media barcode • save=”name” where name is a file name to use to save the media usage information to. The file format will be CSV. <p>The save=”name” query parameter should be used by a client browser to allow the data to be saved by the browser to a file. A default “name” is provided.</p> <p>If no query parameters are used the request will return all the media usage data.</p>
Request Header	N/A

URI	<i>aml/media/reports/usage</i>
Request Data	N/A
Response Codes	200
Response Header	Content-Type:application/xml or application/json On success and save= parameter is used Cookie: name= FileDownloadingProgressCookie, value=Done
Response Data	See Figure 134: mediaUsageList

Table 134: POST *aml/media/reports/usage/email*

Product Support: Scalar i6k, Scalar i3, Scalar i6

Description: Email the list of media usage records.

The information will be in an email attachment and the file format will be CSV.

The reportCriteria object supports the same query parameters as Table 133: GET *aml/media/reports/usage*.

Note: This is a licensed feature (Advanced Reporting).

URI	<i>aml/media/reports/usage/email</i>
Method	POST
User Role Access	Admin, Service
Version	700(i6k), 110(i3/i6)
Parameters	N/A
Request Header	Content-Type:application/xml or application/json
Request Data	Figure 63: email
Response Codes	200, 403
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 203: WSResultCode

Table 135: GET *aml/medium/{barcode}*

Product Support: Scalar i6k, Scalar i3, Scalar i6

Description: Retrieve the media whose barcode is given by the URI path template “barcode”. To retrieve the media object whose barcode is “100000L6” use “*aml/medium/100000L6*”.

A list is returned where duplicate barcodes exist since multiple media may have the same barcode.

URI	<i>aml/medium/{barcode}</i>
Method	GET
User Role Access	Admin, Service, User
Version	700(i6k), 110(i3/i6)

URI	<i>aml/medium/{barcode}</i>
Parameters	N/A
Request Header	N/A
Request Data	N/A
Response Codes	200, 404
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 129: mediaList

Table 136: GET aml/partitions

Product Support: Scalar i6k, Scalar i3, Scalar i6

Description: Retrieve all partition resource instances configure on the library.

URI	<i>aml/partitions</i>
Method	GET
User Role Access	Admin, Service, User
Version	700(i6k), 110(i3/i6)
Parameters	<p>The following query parameters are supported, fields, with the following values</p> <ul style="list-style-type: none"> fields=A comma separate list of partition object elements you want to retrieve values for. The partition elements id, name, type, mode and serialNumber will always be included and if the user specifies 'fields=', these are the elements that will have real values. The elements that are supported are driveDomainType , storageSlotCount, emptyStorageSlotCount, driveCount, emptyDriveCount, ieSlotCount, emptySlotCount, xieSlotCount, emptyXieSlotCount, ampExtensionsCount, mediaCount, barcodeReporting, vendorId, productId, controlPathProvider, policySettings. <p>Note: This query parameter is only supported on the i6k.</p>
Request Header	N/A
Request Data	N/A
Response Codes	200
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 147: partitionList

Table 137: POST aml/partitions

Product Support: Scalar i6k, Scalar i3, Scalar i6

Description: Create a new partition resource. When using the partition XML object to create a partition, the following valid values apply:

- type: 1 (standard), 2 (EDLM), 3 (AMP), 4 (Active Vault)

Note: The Scalar i6 supports type 1 (standard), 2 (EDLM), 4 (Active Vault).

The Scalar i3 only supports type 1 (standard).

- driveDomainType: 0 (Unknown), 3 (LTO2), 4 (LTO3), 5 (LTO4), 6 (LTO5), 7 (LTO6), 8 (LTO7)
- barcodeReporting: 1 (Prefix), 2 (Suffix), 3 (Disable), 4 (Pass Through) and 2 more for non-Scalar i6k products 5 (Standard Six), 6 (Plus Six)
- vendorId: 0 (ADIC), 1 (Quantum), – default 1
- productId: 0 (N/A), 1 (Scalar 24), 2 (Scalar 100), 3 (Scalar 1000), 4 (Scalar 10k), 5 (Scalar i500), 6 (Scalar i2000), 7 (Scalar i6000), 8 (Scalar i40-i80), 9 (Scalar i3-i6)

Note: The productId values 5, 6 and 7 can only be used if the vendorId 1 (Quantum) is selected. For vendorId 0 (ADIC) the productId values 1,2,3,4,5 and 6 can be used. The Scalar i6k supports productId values 1,2,3,4,5,6,7 and i3/i6 supports 5,7,8,9.

The example below creates a partition named “Test” with 2 LTO-5 drives and 300 slots. The vendor id will be “Quantum”, the product id will be “Scalar i6000” and the barcodeReporting method policy will be “Pass Through”.

The required fields for creating a partition are: “name” and “type”.

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:partition xmlns:ns2="http://automatedMediaLibrary/">
  <name>Test </name>
  <type>1</type>
  <driveDomainType>6</driveDomainType>
  <storageSlotCount>300</storageSlotCount>
  <driveCount>2</driveCount>
  <ieSlotCount>12</ieSlotCount>
  <xieSlotCount>0</xieSlotCount>
  <ampExtensionsCount>0</ampExtensionsCount>
  <barcodeReporting>4</barcodeReporting>
  <vendorId>1</vendorId>
  <productId>7</productId>
</ns2:partition>
```

Note: The Scalar i3 and Scalar i6 do not support the following partition elements:

- ieSlotCount
- xieSlotCount
- ampExtensionCount

A partition name can only contain the following characters: A-Z a-z 0-9 _ and spaces

The maximum number of characters allowed is 64.

Note: The partition name 'System' (case-insensitive) cannot be used when connecting to Scalar i3 and Scalar i6 libraries as the "System" partition is a library reserved partition.

URI	aml/partitions
Method	POST
User Role Access	Admin, Service
Version	700(i6k), 110(i3/i6)
Parameters	N/A
Request Header	Content-Type:application/xml or application/json
Request Data	See Figure 148: partition
Response Codes	200, 403, 404
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 148: partition

Table 138: GET aml/partitions/policy/activeVault

Product Support: Scalar i6k, Scalar i6

Description: Get a list of activeVaultPolicy resources configured on the library. Active Vault policies are configured on standard partitions. The policies intercept host commands that export tape cartridges to library managed Active Vault partitions.

Note: Requires an Active Vault license.

URI	aml/partitions/policy/activeVault
Method	GET
User Role Access	Admin, Service, User
Version	700(i6k), 110(i6)
Parameters	N/A
Request Header	N/A
Request Data	N/A
Response Codes	200
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 5: activeVaultPolicyList

Table 139: POST aml/partitions/policy/activeVault

Product Support: Scalar i6k, Scalar i3, Scalar i6

Description: Create a new active vault policy for partition named LL2. You can either choose an externalDefinedExport policy or a vaultDefinedExport policy but not both.

Note: Requires an Active Vault license.

Note: This interface is not supported in i3

<i>URI</i>	<i>aml/partitions/policy/activeVault</i>
Method	POST
User Role Access	Admin, Service
Version	700(i6k), 110(i6)
Parameters	N/A
Request Header	Content-Type:application/xml or application/json
Request Data	<p>See Figure 6: activeVaultPolicy</p> <p>The following example would move any media barcode that contains the characters '00LTO5' to the active vault 'AV Partition' when the media is exported (moved to the IE station) from the partition 'LL2'.</p> <pre><?xml version="1.0" encoding="UTF-8" standalone="yes"?> <ns2:activeVaultPolicy xmlns:ns2="http://automatedMediaLibrary/"> <partitionName>LL2</partitionName> <vaultDefinedExport> <activeVaultName>AV Partition</activeVaultName> <mediaFilter>*00LTO5</mediaFilter> </vaultDefinedExport> </ns2:activeVaultPolicy></pre> <p>Note: If the above mediaFilter element is used, it must be a comma delimited set of alphanumeric tokens, with an optional prefix or suffix wildcard (*).</p> <p>The other option is to choose the external application server(s) configured on the library, see Table 325: GET aml/system/policy/externalApplicationServers. You would use the externalApplicationServers.name field.</p>
Response Codes	201, 403, 404
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 203: WSResultCode

Table 140: GET aml/partitions/policy/autoImport

Product Support: Scalar i6k

Description: Retrieve the list of Auto Import Policy resources. The Auto Import feature allows the import of media from an AMP partition to a Standard partition based on an Auto Import Policy configured for a standard partition. The policy defines a range of media barcodes to use to determine which media get imported into which partition.

<i>URI</i>	<i>aml/partitions/policy/autoImport</i>
Method	GET
User Role Access	Admin, Service, User
Version	700(i6k)
Parameters	N/A
Request Header	N/A
Request Data	N/A
Response Codes	200
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 9: autoImportPolicyList

Table 141: GET aml/partitions/policy/autoExport

Product Support: Scalar i6k

Description: Retrieve the list of Auto Export Policy resources. The Auto Export feature reroutes the export of media (media moves by a host to IE stations) from a Standard partition to an AMP partition. This feature can only be configured if there is an AMP partition configured.

<i>URI</i>	<i>aml/partitions/policy/autoExport</i>
Method	GET
User Role Access	Admin, Service, User
Version	700(i6k)
Parameters	N/A
Request Header	N/A
Request Data	N/A
Response Codes	200
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 7: autoExportPolicyList

Table 142: GET aml/partitions/policy/driveCleaning

Product Support: Scalar i6k, Scalar i3, Scalar i6

Description: Retrieve a list of drive cleaning policy resources configured on the library.

<i>URI</i>	<i>aml/partitions/policy/driveCleaning</i>
Method	GET
User Role Access	Admin, Service, User

URI	<i>aml/partitions/policy/driveCleaning</i>
Version	700(i6k), 110(i3/i6)
Parameters	N/A
Request Header	N/A
Request Data	N/A
Response Codes	200
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 32: driveCleaningPolicyList

Table 143: GET aml/partitions/policy/edlm

Product Support: Scalar i6k, Scalar i3, Scalar i6

Description: Retrieve a list of edlmPolicy resources configured on the library.

URI	<i>aml/partitions/policy/edlm</i>
Method	GET
User Role Access	Admin, Service, User
Version	700(i6k), 110(i6)
Parameters	N/A
Request Header	N/A
Request Data	N/A
Response Codes	200
Response Header	Content-Type:application/xml or application/json
Response Data	See </ns2:edlmMediaScanTest> Figure 48: edlmPolicyList

Table 144: POST aml/partitions/policy/edlm

Product Support: Scalar i6k, Scalar i6

Description: Create a new EDLM partition policy. The example below creates a policy for partition LL1:

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:edlmPolicy xmlns:ns2="http://automatedMediaLibrary/">
  <partitionName>LL1</partitionName>
  <tapeAlert>
    <scanType>1</scanType>
    <count>3</count>
  </tapeAlert>
  <timeInterval>
    <quickScan>0</quickScan>
    <normalScan>365</normalScan>
    <fullScan>1095</fullScan>
  </timeInterval>
  <onImport>1</onImport>
  <scanPriority>2</scanPriority>
</ns2:edlmPolicy>
```

```

<concurrentScans>0</concurrentScans>
<continueOnError>true</continueOnError>
<disableRasTicketGeneration>true</disableRasTicketGeneration>
<externalPolicies>
  <externalApplicationServersName>The name of the external application server's configuration
</externalApplicationServersName>
  <mediaCopyPolicy>3</mediaCopyPolicy>
  <suspectCountScanType>1</suspectCountScanType>
</externalPolicies>
</ns2:edlmPolicy>

```

URI	<i>aml/partitions/policy/edlm</i>
Method	POST
User Role Access	Admin, Service
Version	700(i6k), 110(i6)
Parameters	N/A
Request Header	Content-Type:application/xml or application/json
Request Data	Figure 49: edlmPolicy
Response Codes	201, 403, 404
Response Header	Content-Type:application/xml or application/json Location: aml/partition/{name}/policy/edlm
Response Data	See Figure 203: WSResultCode

Table 145: GET *aml/partitions/policy/ekm*

Product Support: Scalar i6k, Scalar i3, Scalar i6

Description: Retrieve a list of partition encryption policy resources. Encryption key management systems generate, protect, store, and manage encryption keys. These keys are used by their respective tape drives to encrypt information being written to tape, and decrypt information being read from tape media. Encryption on the i6k tape library is enabled by partition only.

If a configured partition does not support EKM, it will not be included in this list.

Note: Encryption Key Management (EKM) is a licensable feature. While the Scalar i6k supports an EKM license for all encryption key management solutions, the Scalar i3 and Scalar i6 support an EKM and SKM license depending on the configured encryption key management solution.

URI	<i>aml/partitions/policy/ekm</i>
Method	GET
User Role Access	Admin, Service, User
Version	700(i6k), 110(i3/i6)
Parameters	N/A
Request Header	N/A
Request Data	N/A
Response Header	Content-Type:application/xml or application/json
Response Codes	200
Response Data	See Figure 149: partitionEncryptionPolicyList

Table 146: GET aml/partitions/reports/utilization

Product Support: Scalar i6k

Description: Retrieve the partition utilization file resource. The output below is a sample of what the report looks like.

The Partition Utilization Report provides information for library partition usage determination, capturing high watermark counts for drive, slot and media usage. The report information provides all necessary details to evaluate library and partition usage for proper sizing and/or usage determination, see below:

SN: 273190049

Date: Tue Jun 03 10:21:27 MDT 2014

----- June : 2014 -----

HIGH WATER MARKS:

DWM:2, SWM:12, MWM:2, PN:LL5
 DWM:0, SWM:24, MWM:3, PN:AMP Part
 DWM:1, SWM:24, MWM:3, PN:MEDIA Partition
 DWM:3, SWM:12, MWM:6, PN:LL1
 DWM:1, SWM:12, MWM:1, PN:edlm
 DWM:0, SWM:108, MWM:17, PN:AV
 DWM:1, SWM:18, MWM:0, PN:LL3
 DWM:1, SWM:120, MWM:41, PN:LL2
 DWM:1, SWM:120, MWM:2, PN:EDLM
 DWM:0, SWM:12, MWM:1, PN:AMP
 DWM:0, SWM:12, MWM:1, PN:amp partition
 DWM:0, SWM:0, MWM:0, PN:JUnit Empty Partition
 DWM:0, SWM:120, MWM:2, PN:AMPPY
 DWM:2, SWM:660, MWM:126, PN:JUnit Standard LL One
 DWM:0, SWM:330, MWM:55, PN:JUnit Active Vault Partition
 DWM:2, SWM:660, MWM:126, PN:JUnit Standard Partition
 DWM:1, SWM:24, MWM:2, PN:Sales Partition One
 DWM:0, SWM:330, MWM:55, PN:JUnit AMP Partition
 DWM:0, SWM:24, MWM:3, PN:AV Part
 DWM:0, SWM:12, MWM:1, PN:amp
 DWM:1, SWM:102, MWM:2, PN:LL4 IBM

PARTITION ACTIVITY:

Mon Jun 02 10:52:15 MDT 2014,LL1,0,0,0,Delete
 Thu May 15 16:06:44 MDT 2014,Sales Partition One,1,24,2,Rename Sales Partition Sales Partition One
 Fri May 09 16:24:29 MDT 2014,Sales Partition One,1,24,2,Create first
 Tue May 27 14:59:38 MDT 2014,EDLM,0,0,0,Delete
 Tue May 06 14:10:14 MDT 2014,EDLM,1,120,2,Create first

Note: This is a licensed feature (Partition Utilization).

<i>URI</i>	<i>aml/partitions/reports/utilization</i>
Method	GET
User Role Access	Admin, Service, User
Version	700(i6k), 110(i3/i6)

URI	aml/partitions/reports/utilization
Parameters	Optional query parameter is save, with the following valid values <ul style="list-style-type: none"> • save="name" where name is a file name to use to save the partition utilization information to. The file format will be in text. The save="name" query parameter should be used by a client browser to allow the data to be saved by the browser to a file. A default "name" is provided.
Request Header	N/A
Request Data	N/A
Response Codes	200, 404
Response Header	Content-Type: application/octet-stream On success and save= parameter is used Cookie: name= FileDownloadingProgressCookie, value=Done
Response Data	Partition utilization data

Table 147: POST aml/partitions/reports/utilization/email

Product Support: Scalar i6k

Description: Email the Partition Utilization activity report. The information will be in an email attachment and the file format will be text.

URI	aml/partitions/reports/utilization/email
Method	POST
User Role Access	Admin, Service
Version	700(i6k), 110(i3/i6)
Parameters	N/A
Request Header	Content-Type:application/xml or application/json
Request Data	Figure 63: email
Response Codes	200, 403
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 203: WSResultCode

Table 148: GET aml/partition/{name}

Product Support: Scalar i6k, Scalar i3, Scalar i6

Description: Retrieve the partition whose name is given by the URI path template “name”. To retrieve the partition name “Test Partition”, the following URI would be requested: “aml/partition/Test Partition”.

<i>URI</i>	<i>aml/partition/{name}</i>
Method	GET
User Role Access	Admin, Service, User
Version	700(i6k), 110(i3/i6)
Parameters	N/A
Request Header	N/A
Request Data	N/A
Response Codes	200, 404
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 148: partition

Table 149: PUT aml/partition/{name}

Product Support: Scalar i6k, Scalar i3, Scalar i6

Description: Modify the partition whose name is given by the URI path template “name”.

The following URI “aml/partition/LL2” and XML request data will modify the partitions, name, barcodeReporting, vendorId and productId. These values are the only ones that can be modified through this URI. The serialNumber field must be specified as this is used to identify the partition you want to modify.

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:partition xmlns:ns2="http://automatedMediaLibrary/">
  <name>Partition2</name>
  <serialNumber>273190048_LL3</serialNumber>
  <barcodeReporting>1</barcodeReporting>
  <vendorId>1</vendorId>
  <productId>7</productId>
</ns2:partition>
```

To change other partition attributes see the following:

Table 151: GET aml/partition/{name}/ampExtensionsCount

Table 153: GET aml/partition/{name}/barcodeReporting

Table 162: GET aml/partition/{name}/mode

Table 164: GET aml/partition/{name}/name

Table 193: GET aml/partition/{name}/segments

Table 220: GET aml/physicalLibrary/segments

URI	<i>aml/partition/{name}</i>
Method	PUT
User Role Access	Admin, Service
Version	700(i6k), 110(i3/i6)
Parameters	N/A
Request Header	Content-Type:application/xml or application/json
Request Data	Figure 148: partition
Response Codes	200, 403, 404
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 148: partition

Table 150: DELETE *aml/partition/{name}*

Product Support: Scalar i6k, Scalar i3, Scalar i6

Description: Delete the partition whose name is given by the URI path template “name”.

URI	<i>aml/partition/{name}</i>
Method	DELETE
User Role Access	Admin, Service
Version	700(i6k), 110(i3/i6)
Parameters	N/A
Request Header	N/A
Request Data	N/A
Response Codes	200, 403, 404
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 203: WSResultCode

Table 151: GET *aml/partition/{name}/ampExtensionsCount*

Product Support: Scalar i6k

Description: Retrieve the current amp extensions count for the partition whose name is provided by the URI path template “name”.

A single string value will be returned that represents the current configured extension count.

Note: The count represents the number of segments/magazines.

URI	<i>aml/partition/{name}/ampExtensionsCount</i>
Method	GET
User Role Access	Admin, Service, User
Version	700(i6k)
Parameters	N/A
Request Header	N/A
Request Data	N/A

<i>URI</i>	<i>aml/partition/{name}/ampExtensionsCount</i>
Response Codes	200, 404
Response Header	Content-Type:text/plain or application/json
Response Data	The number of AMP extensions

Table 152: PUT aml/partition/{name}/ampExtensionsCount

Product Support: Scalar i6k

Description: Change the partitions amp extensions count (segments). The number that is requested will be added or subtracted from the current extension count. If you want to add 5 segments to the current count, request 5. If you want to remove 4 segments, request -4. This option only applies to standard partitions.

Note: The partition mode must be changed before a connected host will see these changes. To change the partitions mode, see: Table 162: GET aml/partition/{name}/mode.

<i>URI</i>	<i>aml/partition/{name}/ampExtensionsCount</i>
Method	PUT
User Role Access	Admin, Service
Version	700(i6k)
Parameters	N/A
Request Header	Content-Type:text/plain or application/json
Request Data	The number of extensions to add or subtract from the current count.
Response Codes	200, 403, 404
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 203: WSResultCode

Table 153: GET aml/partition/{name}/barcodeReporting

Product Support: Scalar i6k, Scalar i3, Scalar i6

Description: Retrieve the current barcodeReporting methodology (Prefix, Suffix, Disabled or Pass Through) of the partition whose name is given by the URI path template “name”. A single string value will be returned and the possible values are:

- 1 (Prefix/Media ID First), expect and report barcode label’s media id first
- 2 (Suffix, Media ID Last), expect and report barcode label’s media id last
- 3 (Disabled, Standard), report barcode identifier without media identifier
- 4 (Pass Through), report barcode label information as scanned on label
- 5 (Standard Six), expect and report 6 character barcode without media identifier
- or 6 (Plus Six), expect 6 character barcode label with additional media identifier.

Note: Barcode reporting methodology 5 and 6 are only supported by the Scalar i3/i6.

<i>URI</i>	<i>aml/partition/{name}/barcodeReporting</i>
Method	GET
User Role Access	Admin, Service, User
Version	700(i6k), 110(i3/i6)
Parameters	N/A
Request Header	N/A
Request Data	N/A
Response Codes	200, 404
Response Header	Content-Type:text/plain or application/json
Response Data	1,2,3,4,5 or 6 (5 and 6 only on i3/i6)

Table 154: PUT aml/partition/{name}/barcodeReporting

Product Support: Scalar i6k, Scalar i3, Scalar i6

Description: Change the partitions barcode reporting methodology whose name is given by the URI path template “name”.

Note: This option only applies to standard partitions.

Note: The partition’s mode must change before a connected host will see these changes. To change the partitions mode, see: Table 162: GET aml/partition/{name}/mode.

<i>URI</i>	<i>aml/partition/{name}/barcodeReporting</i>
Method	PUT
User Role Access	Admin, Service
Version	700(i6k), 110(i3/i6)
Parameters	N/A
Request Header	Content-Type:text/plain or application/json
Request Data	1,2,3 or 4
Response Codes	200, 403, 404
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 203: WSResultCode

Table 155: GET aml/partition/{name}/controlPath

Product Support: Scalar i6k, Scalar i3, Scalar i6

Description: Retrieve the list of control path capable drives for the partition whose name is given as the URI path template “name”.

<i>URI</i>	<i>aml/partition/{name}/controlPath</i>
Method	GET
User Role Access	Admin, Service, User
Version	700(i6k), 110(i3/i6)

URI	<i>aml/partition/{name}/controlPath</i>
Parameters	<p>Query parameter names are “dataStore”. The valid value for the named parameter are as follows:</p> <ul style="list-style-type: none"> dataStore = 0 (LMC Cached data), 1 (Get data directly from the drive), 2 (Hybrid - Database/Cache). The default is ‘0’. We optimized this request to use cached data. By doing this some data may be stale, such as drive status, since this data needs to come directly from the drive. To get the most up to date information use the value 1. This parameter is only supported for the Scalar i6k (added in version 739).
Request Header	N/A
Request Data	N/A
Response Codes	200, 404
Response Header	Content-Type:text/plain or application/json
Response Data	See Figure 27: driveList

Table 156: PUT *aml/partition/{name}/controlPath*

Product Support: Scalar i6k, Scalar i3, Scalar i6

Description: Update the control path settings on the requested drives.

See the XML REQUEST DATA examples below for more details:

Example 1: Configure a Standard CP drive, no CPF. The controlPath type must be 2 and primary must be set to true.

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:driveList xmlns:ns2="http://automatedMediaLibrary/">
  <drive>
    <logicalSerialNumber>F00139603D</logicalSerialNumber>
    <settings>
      <controlPath>
        <primary>true</primary>
        <type>2</type>
      </controlPath>
    </settings>
  </drive>
</ns2:driveList>
```

Example 2: To remove a CP drive, the controlPath type must be set to 1. This is also used to disable Control Path in the case where there are CPF drives configured. You only need to specify the CP drive to be disabled.

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:driveList xmlns:ns2="http://automatedMediaLibrary/">
  <drive>
    <logicalSerialNumber>F00139603D</logicalSerialNumber>
```

```

    <settings>
      <controlPath>
        <primary>true</primary>
        <type>1</type>
      </controlPath>
    </settings>
  </drive>
</ns2:driveList>

```

Example 3: Configure Basic CP/CPF pair. The controlPath type must be set to 3 and one of the drives must have primary set to true.

```

<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:driveList xmlns:ns2="http://automatedMediaLibrary/">
  <drive>
    <logicalSerialNumber>F001396043</logicalSerialNumber>
    <settings>
      <controlPath>
        <primary>true</primary>
        <type>3</type>
      </controlPath>
    </settings>
  </drive>
  <drive>
    <logicalSerialNumber>F00139603D</logicalSerialNumber>
    <settings>
      <controlPath>
        <primary>false</primary>
        <type>3</type>
      </controlPath>
    </settings>
  </drive>
</ns2:driveList>

```

Example 4: Set the CP/CPF pair to advanced mode. The controlPath type must be set to 4.

```

<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:driveList xmlns:ns2="http://automatedMediaLibrary/">
  <drive>
    <logicalSerialNumber>F001396043</logicalSerialNumber>
    <settings>
      <controlPath>
        <primary>true</primary>
        <type>4</type>
      </controlPath>
    </settings>
  </drive>
  <drive>
    <logicalSerialNumber>F00139603D</logicalSerialNumber>
    <settings>
      <controlPath>
        <primary>false</primary>
        <type>4</type>
      </controlPath>
    </settings>
  </drive>
</ns2:driveList>

```

```

    </settings>
  </drive>
</ns2:driveList>

```

Example 5: Remove a CPF drive from a CP/CPF pair. The CPF drive controlPath type must be set to 1 and the CP drive controlPath type must be set to 2.

```

<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:driveList xmlns:ns2="http://automatedMediaLibrary/">
  <drive>
    <logicalSerialNumber>F001396043</logicalSerialNumber>
    <settings>
      <controlPath>
        <primary>true</primary>
        <type>2</type>
      </controlPath>
    </settings>
  </drive>
  <drive>
    <logicalSerialNumber>F00139603D</logicalSerialNumber>
    <settings>
      <controlPath>
        <primary>false</primary>
        <type>1</type>
      </controlPath>
    </settings>
  </drive>
</ns2:driveList>

```

Example 6: Add a basic CPF drive to an existing CP drive. Both drives must have their controlPath type set to 3.

```

<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:driveList xmlns:ns2="http://automatedMediaLibrary/">
  <drive>
    <logicalSerialNumber>F001396043</logicalSerialNumber>
    <settings>
      <controlPath>
        <primary>true</primary>
        <type>3</type>
      </controlPath>
    </settings>
  </drive>
  <drive>
    <logicalSerialNumber>F00139603D</logicalSerialNumber>
    <settings>
      <controlPath>
        <primary>false</primary>
        <type>3</type>
      </controlPath>
    </settings>
  </drive>
</ns2:driveList>

```

Example 7: Add an advanced CPF drive to an existing ACPF cluster.

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:driveList xmlns:ns2="http://automatedMediaLibrary/">
  <drive>
    <logicalSerialNumber>F001396025</logicalSerialNumber>
    <settings>
      <controlPath>
        <primary>>false</primary>
        <type>4</type>
      </controlPath>
    </settings>
  </drive>
</ns2:driveList>
```

Example 8: Configure three multi control path drives. This would be the same for Advanced IBM control path, except the type field would be set to 6 instead of 5.

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:driveList xmlns:ns2="http://automatedMediaLibrary/">
  <drive>
    <!-- <physicalSerialNumber>GB120401FD</physicalSerialNumber> -->
    <logicalSerialNumber>F00139709D</logicalSerialNumber>
    <settings>
      <controlPath>
        <primary>>true</primary>
        <type>5</type>
      </controlPath>
    </settings>
  </drive>
  <drive>
    <!-- <physicalSerialNumber>10WT017350</physicalSerialNumber> -->
    <logicalSerialNumber>F001397091</logicalSerialNumber>
    <settings>
      <controlPath>
        <primary>>true</primary>
        <type>5</type>
      </controlPath>
    </settings>
  </drive>
  <drive>
    <!-- <physicalSerialNumber>10WT017242</physicalSerialNumber> -->
    <logicalSerialNumber>F001397097</logicalSerialNumber>
    <settings>
      <controlPath>
        <primary>>true</primary>
        <type>5</type>
      </controlPath>
    </settings>
  </drive>
</ns2:driveList>
```

To remove one or all of the multi- control paths, supply the drive list to be removed and set the *type* field to 1.

When configuring multi path or an advanced control path configuration with IBM drives, the *primary* field must be set to true.

URI	<i>aml/partition/{name}/controlPath</i>
Method	PUT
User Role Access	Admin, Service
Version	700(i6k), 110(i3/i6)
Parameters	The query parameters are takePartitionOffline. The valid values for the query parameters are as follows <ul style="list-style-type: none"> takePartitionOffline = true or false (this parameter allows you to take the partition offline before the operation is performed. The partition will be taken online when the operation has completed. If the partition was already offline before the operation was performed, it will be left in that state.)
Request Header	Content-Type:application/xml or application/json
Request Data	See Figure 27: driveList
Response Codes	200, 403, 404
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 27: driveList

Table 157: GET *aml/partition/{name}/dataPath*

Product Support: Scalar i6k, Scalar i3, Scalar i6

Description: Retrieve a list of drive resources that are data path failover capable who belong to the partition whose name is provided by the URI path template “name”. A drive is data path failover capable if it is internally Ethernet connected, drive generation LTO5 or greater and properly licensed for redundancy/failover configuration.

URI	<i>aml/partition/{name}/dataPath</i>
Method	GET
User Role Access	Admin, Service, User
Version	700(i6k), 110(i3/i6)
Parameters	Query parameter names are “dataStore”. The valid value for the named parameter are as follows: <ul style="list-style-type: none"> dataStore = 0 (LMC Cached data), 1 (Get data directly from the drive), 2 (Hybrid - Database/Cache). The default is '0'. We optimized this request to use cached data. By doing this some data may be stale, such as drive status, since this data needs to come directly from the drive. To get the most up to date information use the value 1. This parameter is only supported for the Scalar i6k (added in version 739).
Request Header	N/A
Request Data	N/A

URI	<i>aml/partition/{name}/dataPath</i>
Response Codes	200, 404
Response Header	Content-Type: application/xml or application/json
Response Data	See Figure 27: driveList

Table 158: PUT *aml/partition/{name}/dataPath*

Product Support: Scalar i6k, Scalar i3, Scalar i6

Description: Update the drive resources data path failover settings who belong to the partition whose name is provided by the URI path template “name”.

URI	<i>aml/partition/{name}/dataPath</i>
Method	PUT
User Role Access	Admin, Service
Version	700(i6k), 110(i3/i6)
Parameters	N/A
Request Header	Content-Type: application/xml or application/json
Request Data	See Figure 27: driveList
Response Codes	200, 403, 404
Response Header	Content-Type: application/xml or application/json
Response Data	See Figure 27: driveList

Table 159: GET *aml/partition/{name}/driveSerialNumbers*

Product Support: Scalar i6k, Scalar i3, Scalar i6

Description: Retrieve a list of drive serial numbers for the drives that are configured in the partition whose name is provided by the URI path template “name”.

URI	<i>aml/partition/{name}/driveSerialNumbers</i>
Method	GET
User Role Access	Admin, Service, User
Version	700(i6k), 110(i3/i6)
Parameters	N/A
Request Header	N/A
Request Data	N/A
Response Codes	200, 404
Response Header	Content-Type: application/xml or application/json
Response Data	See Figure 39: driveSerialNumberList

Table 160: POST aml/partition/{name}/driveSerialNumbers

Product Support: Scalar i6k, Scalar i3, Scalar i6

Description: Add the drives with the serial numbers given in the driveSerialNumberList to the partition whose name is provided by the URI path template “name”.

The example below adds the drives with logical serial number, F001396031 and F001396007 to the partition whose name is provided by the URI path template “name”.

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:driveSerialNumberList xmlns:ns2="http://automatedMediaLibrary/">
  <serialNumber>F001396031</serialNumber>
  <serialNumber>F001396007</serialNumber>
</ns2:driveSerialNumberList>
```

URI	aml/partition/{name}/driveSerialNumbers
Method	POST
User Role Access	Admin, Service
Version	700(i6k), 110(i3/i6)
Parameters	N/A
Request Header	Content-Type:application/xml or application/json
Request Data	See Figure 39: driveSerialNumberList
Response Codes	200, 403, 404
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 39: driveSerialNumberList

Table 161: DELETE aml/partition/{name}/driveSerialNumbers

Product Support: Scalar i6k, Scalar i3, Scalar i6

Description: Remove the drives with the serial numbers given in the driveSerialNumberList from the partition whose name is provided by the URI path template “name”.

The example below removes the drive with logical serial number, F001396007 from the partition whose name is provided by the URI path template “name”.

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:driveSerialNumberList xmlns:ns2="http://automatedMediaLibrary/">
  <serialNumber>F001396007</serialNumber>
</ns2:driveSerialNumberList>
```

URI	aml/partition/{name}/driveSerialNumbers
Method	DELETE
User Role Access	Admin, Service
Version	700(i6k), 110(i3/i6)
Parameters	N/A
Request Header	Content-Type:application/xml or application/json

URI	<i>aml/partition/{name}/driveSerialNumbers</i>
Request Data	See Figure 39: driveSerialNumberList
Response Codes	200, 403, 404
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 39: driveSerialNumberList

Table 162: GET *aml/partition/{name}/mode*

Product Support: Scalar i6k, Scalar i3, Scalar i6

Description: Retrieve the current mode (Online/Offline) of the partition whose name is provided by the URI path template “name”.

A single string value will be returned and the possible values are:

1 (online) or 2 (offline)

URI	<i>aml/partition/{name}/mode</i>
Method	GET
User Role Access	Admin, Service, User
Version	700(i6k), 110(i3/i6)
Parameters	N/A
Request Header	N/A
Request Data	N/A
Response Codes	200, 404
Response Header	Content-Type:text/plain or application/json
Response Data	1 or 2

Table 163: PUT *aml/partition/{name}/mode*

Product Support: Scalar i6k, Scalar i3, Scalar i6

Description: Change the partition mode, 1 (Online) or 2 (Offline) of the partition whose name is given by the URI path template “name”. This option only applies to standard partitions or LTFs partitions.

URI	<i>aml/partition/{name}/mode</i>
Method	PUT
User Role Access	i6k - Admin, Service i3/i6 – Admin, Service, User (Partition Access Required)
Version	700(i6k), 110(i3/i6)
Parameters	N/A
Request Header	Content-Type:text/plain or application/json
Request Data	1 or 2
Response Codes	200, 403, 404
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 203: WSResultCode

Table 164: GET aml/partition/{name}/name

Product Support: Scalar i6k, Scalar i3, Scalar i6

Description: Retrieve the current name of the partition whose name is provided by the URI path template 'name'. The return name should be the same as the 'name' template.

<i>URI</i>	<i>aml/partition/{name}/name</i>
Method	GET
User Role Access	Admin, Service, User
Version	700(i6k), 110(i3/i6)
Parameters	N/A
Request Header	N/A
Request Data	N/A
Response Codes	200, 404
Response Header	Content-Type:text/plain or application/json
Response Data	The name of the partition

Table 165: PUT aml/partition/{name}/name

Product Support: Scalar i6k, Scalar i3, Scalar i6

Description: Change the partition's name of the partitions whose name is given by the URI path template "name". A partition name can only contain the following characters:

A-Z a-z 0-9 _ and spaces

The maximum number of character allowed is 64.

<i>URI</i>	<i>aml/partition/{name}/mode</i>
Method	PUT
User Role Access	Admin, Service
Version	700(i6k), 110(i3/i6)
Parameters	N/A
Request Header	Content-Type:text/plain or application/json
Request Data	The new name of the partition
Response Codes	200, 403, 404
Response Header	Content-Type:text/plain or application/json
Response Data	See Figure 203: WSResultCode

Table 166: GET aml/partition/{name}/operations

Product Support: Scalar i6k

Description: Retrieve the list of task resources that were started/requested by the partition whose name is given by the URI path template "name".

<i>URI</i>	<i>aml/partition/{name}/operations</i>
Method	GET
User Role Access	Admin, Service, User
Version	700(i6k), 110(i3/i6)
Parameters	N/A

URI	<i>aml/partition/{name}/operations</i>
Request Header	N/A
Request Data	N/A
Response Codes	200
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 189: taskList

Table 167: GET *aml/partition/{name}/operations/autolImport*

Product Support: Scalar i6k

Description: Retrieve a list of auto import media tasks that were requested on the AMP partition whose name is provided by the URI path template “name”.

URI	<i>aml/partition/{name}/operations/autolImport</i>
Method	GET
User Role Access	Admin, Service, User
Version	700(i6k)
Parameters	N/A
Request Header	N/A
Request Data	N/A
Response Codes	200, 404
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 189: taskList

Table 168: POST *aml/partition/{name}/operations/autolImport*

Product Support: Scalar i6k

Description: Start an Auto Import on the partition whose name is provided by the URI path template “name”.

The partition must be a library-managed AMP partition type.

Note: This is an asynchronous request. The new task object URI that was created will be included in the ‘Location’ header of the response, see Figure 190: task.

To determine if an auto import task has completed, check the state element of the task object, when complete the state should be 5 (Completed), see Figure 190: task.

URI	<i>aml/partition/{name}/operations/autolImport</i>
Method	POST
User Role Access	Admin, Service
Version	700(i6k)
Parameters	N/A
Request Header	N/A
Request Data	N/A
Response Codes	200, 403, 404

URI	<i>aml/partition/{name}/operations/autoImport</i>
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 203: WSResultCode

Table 169: GET *aml/partition/{name}/operations/autoImport/{id}*

Product Support: Scalar i6k

Description: Retrieve the task object with the id given by URI path template “id” and the componentId (partition name) given by URI path template “name”.

URI	<i>aml/partition/{name}/operations/autoImport/{id}</i>
Method	GET
User Role Access	Admin, Service, User
Version	700(i6k)
Parameters	N/A
Request Header	N/A
Request Data	N/A
Response Codes	200, 404
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 190: task

Table 170: DELETE *aml/partition/{name}/operations/autoImport/{id}*

Product Support: Scalar i6k

Description: Delete the task object with the id given by URI path template “id” and the componentId given by URI path template “name” .

Note: This does not stop the specific auto import request. It is a way to clean up operation tasks from the library’s database.

URI	<i>aml/partition/{name}/operations/autoImport/{id}</i>
Method	DELETE
User Role Access	Admin, Service
Version	700(i6k)
Parameters	N/A
Request Header	N/A
Request Data	N/A
Response Codes	200, 403, 404
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 203: WSResultCode

Table 171: GET *aml/partition/{name}/operations/inventory*

Product Support: Scalar i6k

Description: Retrieve the list of inventory tasks resources that were started/requested by the partition whose name is given by the URI path template “name”.

URI	<i>aml/partition/{name}/operations/inventory</i>
Method	GET
User Role Access	Admin, Service, User
Version	700(i6k)
Parameters	N/A
Request Header	N/A
Request Data	N/A
Response Codes	200, 404
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 189: taskList

Table 172: POST *aml/partition/{name}/operations/inventory*

Product Support: Scalar i6k, Scalar i3, Scalar i6

Description: Request the library to do an inventory for the partition whose name is given by the URI path template “name”.

The startElement must be a valid element address, if the elementCount is greater than the number of elements, the inventory will ignore the extra elements. To inventory the whole partition, set the startElement to 0 and the elementCount to 65000.

If the partition is not taken offline the inventory will fail. On the i6k, the physical library must be online before you can inventory a partition.

The example below requests to do an inventory of the first 10 slots in the partition.

```
<?xml version="1.0" encoding="UTF-8"?>
<ns2:inventoryTask xmlns:ns2="http://automatedMediaLibrary/">
  <offline>true</offline>
  <startElement>4096</startElement>
  <elementCount>10</elementCount>
</ns2:inventoryTask>
```

Note: The Scalar i6k supports an inventory as an asynchronous request. The new task resource URI that was created will be included in the ‘Location’ header of the response. See Table 172: POST *aml/partition/{name}/operations/inventory*.

In the Scalar i3/i6, the request is synchronous which blocks until the inventory completes.

URI	<i>aml/partition/{name}/operations/inventory</i>
Method	POST
User Role Access	i6k - Admin, Service i3/i6 – Admin, Service, User (Partition Access Required)
Version	700(i6k), 110(i3/i6)
Parameters	N/A
Request Header	Content-Type:application/xml or application/json
Request Data	See Figure 105: inventoryTask (i6k only)
Response Codes	202(i6k) 200(i3/i6), 403, 404

URI	<i>aml/partition/{name}/operations/inventory</i>
Response Header	Content-Type:application/xml or application/json Location: aml/partition/{name}/operations/inventory
Response Data	See Figure 203: WSResultCode

Table 173: GET *aml/partition/{name}/operations/inventory/{taskId}*

Product Support: Scalar i6k

Description: Retrieve the inventory tasks resources that were started/requested by the partition whose name is given by the URI path template “name” and whose task id is given by the URI path template “taskId”.

To determine if an inventory task has completed, check the state element of the task object, when complete the state should be 5 (Completed). See Figure 190: task, for more details.

URI	<i>aml/partition/{name}/operations/inventory/{taskId}</i>
Method	GET
User Role Access	Admin, Service, User
Version	700(i6k)
Parameters	N/A
Request Header	N/A
Request Data	N/A
Response Codes	200, 404
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 190: task

Table 174: DELETE *aml/partition/{name}/operations/inventory/{taskId}*

Product Support: Scalar i6k

Description: Delete the inventory task resources that were started/requested by the partition whose name is given by the URI path template “name” and whose task id is given by the URI path template “taskId”.

The task must be completed (See Figure 190: task) before it can be deleted.

URI	<i>aml/partition/{name}/operations/inventory/{taskId}</i>
Method	DELETE
User Role Access	Admin, Service
Version	700(i6k)
Parameters	N/A
Request Header	N/A
Request Data	N/A
Response Codes	200, 403, 404
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 203: WSResultCode

Table 175: GET aml/partition/{name}/policy/activeVault

Product Support: Scalar i6k, Scalar i6

Description: Retrieve the active vault policy resources for the partition whose name is given by the URI path template “name”.

URI	aml/partition/{name}/policy/activeVault
Method	GET
User Role Access	Admin, Service, User
Version	700(i6k) , 110(i6)
Parameters	N/A
Request Header	N/A
Request Data	N/A
Response Codes	200, 404
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 6: activeVaultPolicy

Table 176: PUT aml/partition/{name}/policy/activeVault

Product Support: Scalar i6k, Scalar i6

Description: Modify the active vault policy resources for the partition whose name is given by the URI path template “name”.

To create a new active vault policy, see Table 139: POST aml/partitions/policy/activeVault.

The example below modifies the active vault policy for partition LL2. Instead of using StorNext to decide what to do on an export, move the media directly to the AV Partition vault.

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:activeVaultPolicy xmlns:ns2="http://automatedMediaLibrary/">
  <partitionName>LL2</partitionName>
  <vaultDefinedExport>
    <activeVaultName>AV Partition</activeVaultName>
  </vaultDefinedExport>
</ns2:activeVaultPolicy>
```

Note: This is a licensed feature (Active Vault).

URI	aml/partition/{name}/policy/activeVault
Method	PUT
User Role Access	Admin, Service
Version	700(i6k), 110(i6)
Parameters	N/A
Request Header	Content-Type:application/xml or application/json
Request Data	See Figure 6: activeVaultPolicy
Response Codes	200, 403, 404

URI	<i>aml/partition/{name}/policy/activeVault</i>
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 6: activeVaultPolicy

Table 177: DELETE *aml/partition/{name}/policy/activeVault*

Product Support: Scalar i6k, Scalar i3, Scalar i6

Description: Delete the active vault policy resources for the partition whose name is given by the URI path template “name”.

URI	<i>aml/partition/{name}/policy/activeVault</i>
Method	DELETE
User Role Access	Admin, Service
Version	700(i6k), 110(i6)
Parameters	N/A
Request Header	N/A
Request Data	N/A
Response Codes	200, 403, 404
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 203: WSResultCode

Table 178: GET *aml/partition/{name}/policy/autoImport*

Product Support: Scalar i6k

Description: Retrieve Auto Import Policy resource for the partition whose name is given by the URI path template “name”.

The Auto Import feature allows the import of media from an AMP partition to a Standard partition based on an Auto Import Policy configured for each standard partition. The policy defines a range of media barcodes to use to determine which media gets imported into which partition.

URI	<i>aml/partition/{name}/policy/autoImport</i>
Method	GET
User Role Access	Admin, Service, User
Version	700(i6k)
Parameters	N/A
Request Header	N/A
Request Data	N/A
Response Codes	200, 404
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 10: autoImportPolicy

Table 179: PUT aml/partition/{name}/policy/autoImport

Product Support: Scalar i6k

Description: Update the Auto Import Policy resource for the partition whose name is given by the URI path template “name”.

The required autoImportPolicy fields required are partitionName, which should be a valid partition name and match the URI path name.

If the mediaBarcodeFilter is not given or is an empty string, then Auto Import will be turned off for this partition.

The mediaBarcodeFilter is constrained to the following regex "[a-zA-Z0-9]{5,15}-[a-zA-Z0-9]{5,15};?\s*". Examples of valid ranges are as follows:

000100-000200

00500-00550; 00000700-00000900

100400900-100500000

Examples of invalid ranges:

000200-000100

000100-000400; 000200-000300

URI	aml/partition/{name}/policy/autoImport
Method	PUT
User Role Access	Admin, Service
Version	700(i6k)
Parameters	N/A
Request Header	Content-Type:application/xml or application/json
Request Data	See Figure 10: autoImportPolicy
Response Codes	200, 403, 404
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 10: autoImportPolicy

Table 180: GET aml/partition/{name}/policy/autoExport

Product Support: Scalar i6k

Description: Retrieve the Auto Export policy resource for the partition whose name is given by the URI path template “name”.

The Auto Export feature reroutes media that have been moved from a standard partition storage slot to an IE station by a host application to an AMP partition.

URI	aml/partition/{name}/policy/autoExport
Method	GET
User Role Access	Admin, Service, User
Version	700(i6k)
Parameters	N/A

URI	<i>aml/partition/{name}/policy/autoExport</i>
Request Header	N/A
Request Data	N/A
Response Codes	200, 404
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 8: autoExportPolicy

Table 181: PUT *aml/partition/{name}/policy/autoExport*

Product Support: Scalar i6k

Description: Update the Auto Export Policy resource for the partition whose name is given by the URI path template “name”.

To configure an Auto Export policy for partition LL1 and have the media rerouted to the AMP partition Amp1 you would use the following:

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:autoExportPolicy
  xmlns:ns2="http://automatedMediaLibrary/">
  <partitionName>LL2</partitionName>
  <destinationAmpPartitionName>amp</destinationAmpPartitionName>
</ns2:autoExportPolicy>
```

To un-configure Auto Export for partition LL2, do the following:

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:autoExportPolicy
  xmlns:ns2="http://automatedMediaLibrary/">
  <partitionName>LL2</partitionName>
</ns2:autoExportPolicy>
```

An Auto Export policy can only be configured for a Standard partition. You cannot configure an Auto Export policy if no AMP partitions exist. If a partition has an Active Vault policy configured then you cannot configure an Auto Export policy on it.

URI	<i>aml/partition/{name}/policy/autoExport</i>
Method	PUT
User Role Access	Admin, Service
Version	700(i6k)
Parameters	N/A
Request Header	Content-Type:application/xml or application/json
Request Data	See Figure 8: autoExportPolicy
Response Codes	200, 403, 404
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 8: autoExportPolicy

Table 182: GET aml/partition/{name}/policy/driveCleaning

Product Support: Scalar i6k, Scalar i3, Scalar i6

Description: Retrieve the drive cleaning policy resource for the partition whose name is given by the URI path template “name”.

<i>URI</i>	<i>aml/partition/{name}/policy/driveCleaning</i>
Method	GET
User Role Access	Admin, Service, User
Version	700(i6k), 110(i3/i6)
Parameters	N/A
Request Header	N/A
Request Data	N/A
Response Codes	200, 404
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 33: driveCleaningPolicy

Table 183: POST aml/partition/{name}/policy/driveCleaning

Product Support: Scalar i6k

Description: DEPRECATED. Create a new drive cleaning policy for the partition whose name is given by the URI path template “name”. The mountCount element should only be used for EDLM partitions.

Note: As of i12.1, it is recommended you use the PUT method instead of this POST method.

<i>URI</i>	<i>aml/partition/{name}/policy/driveCleaning</i>
Method	POST
User Role Access	Admin, Service
Version	700(i6k), 110(i3/i6)
Parameters	N/A
Request Header	Content-Type:application/xml or application/json
Request Data	See Figure 33: driveCleaningPolicy
Response Codes	200, 403, 404
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 33: driveCleaningPolicy

Table 184: PUT aml/partition/{name}/policy/driveCleaning

Product Support: Scalar i6k, Scalar i3, Scalar i6

Description: Update the drive cleaning policy resource for the partition whose name is given by the URI path template “name”.

Note: As of i12.1, the enabled element has been added to the driveCleaningPolicy object. This must be used to determine if a cleaning policy be applied to the partition.

URI	<i>aml/partition/{name}/policy/driveCleaning</i>
Method	PUT
User Role Access	Admin, Service
Version	700(i6k), 110(i3/i6)
Parameters	N/A
Request Header	Content-Type:application/xml or application/json
Request Data	See Figure 33: driveCleaningPolicy
Response Codes	200, 403, 404
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 33: driveCleaningPolicy

Table 185: DELETE *aml/partition/{name}/policy/driveCleaning*

Product Support: Scalar i6k

Description: DEPRECATED. Delete the drive cleaning policy resources for the partition whose name is given by the URI path template “name”.

Note: As of Scalar i6k firmware release i12.1, it is recommended you use the PUT method instead of this DELETE method.

URI	<i>aml/partition/{name}/policy/driveCleaning</i>
Method	DELETE
User Role Access	Admin, Service
Version	700(i6k), 110(i3/i6)
Parameters	N/A
Request Header	N/A
Request Data	N/A
Response Codes	200, 403, 404
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 203: WSResultCode

Table 186: GET *aml/partition/{name}/policy/driveLeveling*

Product Support: Scalar i6k, Scalar i3, Scalar i6

Description: Retrieve the drive leveling policy resource for the partition whose name is given by the URI path template “name”. The drive leveling policy uses specified drive firmware images(s) to be used on the different drive generations configured in the partition. To see what firmware images are currently available/installed on the library, see the following interface: Table 67: GET *aml/drives/firmware/images*.

The type element provides three options, 0 (No drive leveling), 1 (Auto leveling) and 2 (Selective leveling).

Note: The Scalar i6k supports only options 0 and 2.

URI	<i>aml/partition/{name}/policy/driveLeveling</i>
Method	GET
User Role Access	Admin, Service, User
Version	700(i6k), 110(i3/i6)
Parameters	N/A
Request Header	N/A
Request Data	N/A
Response Codes	200, 404
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 34: driveLevelingPolicy

Table 187: PUT *aml/partition/{name}/policy/driveLeveling*

Product Support: Scalar i6k, Scalar i3, Scalar i6

Description: Update the drive leveling policy resource for the partition whose name is given by the URI path template “name”. See examples below for details:

Example 1: Add another firmware file to be used for leveling drives in a partition. The firmware file(s) selected must be compatible with the drive(s) configured in the library. In this example we are adding firmware file “LTO6_D7Y0.fcp_fh.fmrz”. For every PUT request you must specify all the firmware files you want to apply to the partition. In this example you need to include “LTO6FH_FC_J3KZ.E” even though it is already configured.

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:driveLevelingPolicy
  xmlns:ns2="http://automatedMediaLibrary/">
  <partition>LL1</partition>
  <type>2</type>
  <firmwareFile>
    <name>LTO6FH_FC_J3KZ.E</name>
    <version>J3KZ</version>
    <vendor>HP</vendor>
    <type>LTO6</type>
  </firmwareFile>
  <firmwareFile>
    <name>LTO6_D7Y0.fcp_fh.fmrz</name>
    <version>D7Y0</version>
    <vendor>IBM</vendor>
    <type>LTO6</type>
  </firmwareFile>
</ns2:driveLevelingPolicy>
```

Example 2: Remove firmware file “LTO6FH_FC_J3KZ.E” from the current configuration. The firmware file to be deleted is not included in the request.

Basically this firmware file object is not included in the request. Again, when you want to configure selective drive leveling you must always include all the leveling firmware files in the request.

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:driveLevelingPolicy
  xmlns:ns2="http://automatedMediaLibrary/">
  <partition>LL1</partition>
  <type>2</type>
  <firmwareFile>
    <name>LTO6_D7Y0.fcp_fh.fmrz</name>
    <version>D7Y0</version>
    <vendor>IBM</vendor>
    <type>LTO6</type>
  </firmwareFile>
</ns2:driveLevelingPolicy>
```

Note: The Scalar i6k does not support driveLevelingPolicy.type 1 (Auto Leveling).

URI	aml/partition/{name}/policy/driveLeveling
Method	PUT
User Role Access	Admin, Service
Version	700(i6k), 110(i3/i6)
Parameters	N/A
Request Header	Content-Type:application/xml or application/json
Request Data	See Figure 34: driveLevelingPolicy
Response Codes	200, 403, 404
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 34: driveLevelingPolicy

Table 188: GET aml/partition/{name}/policy/edlm

Product Support: Scalar i6k, Scalar i6

Description: Retrieve the edlm policy resources for the partition whose name is given by the URI path template “name”.

URI	aml/partition/{name}/policy/edlm
Method	GET
User Role Access	Admin, Service, User
Version	700(i6k), 110(i6)
Parameters	N/A
Request Header	N/A
Request Data	N/A
Response Codes	200, 404
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 49: edlmPolicy

Table 189: PUT aml/partition/{name}/policy/edlm

Product Support: Scalar i6k, Scalar i6

Description: Modify the edlm policy resources for the partition whose name is given by the URI path template “name”.

The example below modifies the policy such that RAS ticket generation and notification is disabled on bad or suspect media and scan policy is scheduled every 30 days for normal scans and 60 days for full scans.

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:edlmPolicy xmlns:ns2="http://automatedMediaLibrary/">
  <partitionName>LL1</partitionName>
  <disableRasTicketGeneration>true</disableRasTicketGeneration>
  <timeInterval>
    <quickScan>0</quickScan>
    <normalScan>30</normalScan>
    <fullScan>60</fullScan>
  </timeInterval>
</ns2:edlmPolicy>
```

Note: This is a licensed feature (EDLM).

URI	aml/partition/{name}/policy/edlm
Method	PUT
User Role Access	Admin, Service
Version	700(i6k), 110(i6)
Parameters	N/A
Request Header	Content-Type:application/xml or application/json
Request Data	See Figure 49: edlmPolicy
Response Codes	200, 403, 404
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 49: edlmPolicy

Table 190: DELETE aml/partition/{name}/policy/edlm

Product Support: Scalar i6k, Scalar i6

Description: Delete the edlm policy resources for the partition whose name is given by the URI path template “name”.

URI	aml/partition/{name}/policy/edlm
Method	DELETE
User Role Access	Admin, Service
Version	700(i6k), 110(i6)
Parameters	N/A
Request Header	N/A
Request Data	N/A
Response Codes	200, 403, 404
Response Header	Content-Type:application/xml or application/json

URI	<i>aml/partition/{name}/policy/edlm</i>
Response Data	See Figure 203: WSResultCode

Table 191: GET *aml/partition/{name}/policy/ekm*

Product Support: Scalar i6k, Scalar i3, Scalar i6

Description: Retrieve the encryption key management (EKM) policy for the partition with the name given by URI path template “name”.

URI	<i>aml/partition/{name}/policy/ekm</i>
Method	GET
User Role Access	Admin, Service, User
Version	700(i6k), 110(i3/i6)
Parameters	N/A
Request Header	N/A
Request Data	N/A
Response Codes	200, 404
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 150: partitionEncryptionPolicy

Table 192: PUT *aml/partition/{name}/policy/ekm*

Product Support: Scalar i6k, Scalar i3, Scalar i6

Description: Update the encryption key management (EKM) policy for the partition with the name given by URI path template “name”.

Note: This is a licensed feature (EKM and/or SKM).

URI	<i>aml/partition/{name}/policy/ekm</i>
Method	PUT
User Role Access	Admin, Service
Version	700(i6k), 110(i3/i6)
Parameters	N/A
Request Header	Content-Type:application/xml or application/json
Request Data	See Figure 150: partitionEncryptionPolicy The Request data will be a little different depending on the ekmServerType requested, see the following examples for details: <pre><ns2:partitionEncryptionPolicy xmlns:ns2="http://automatedMediaLibrary/"> <partitionName>LL2</partitionName> <ekmServerType>4</ekmServerType> <libraryManaged>true</libraryManaged> <fipsEnabled>false</fipsEnabled> <keyReuse>false</keyReuse> <keyType>2</keyType> </ns2:partitionEncryptionPolicy></pre>

URI	<i>aml/partition/{name}/policy/ekm</i>
	<p>The element fipsEnabled does not apply to partitions with IBM drives or for ekmServerType 8 (QEKM) and 32 (TKLM).</p> <p>The ekmServerType 8 and 32 (QEKM/TKLM) only applies to partitions containing only IBM drives.</p> <p>Note: The partition must be taken offline before you can change the EKM policy. All drives in the partition must be unloaded before this request can be processed. The ekmServerType selected must be configured before you can set a policy to libraryManaged. If the server is currently configured by another partition to Key Per Library (keyType) then you must select the same keyType. If Key Per Partition is configure by another partition for this server type then only Key Per Partition or Key Per Media can be selected. If Key Per Media is configure by another partition for this server type then only Key Per Media or Key Per Partition can be selected.</p>
Response Codes	200, 403, 404
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 150: partitionEncryptionPolicy

Table 193: GET *aml/partition/{name}/segments*

Product Support: Scalar i6k, Scalar i3, Scalar i6

Description: Retrieve the segments resources for the partition given by URI path template “name”.

URI	<i>aml/partition/{name}/segments</i>
Method	GET
User Role Access	Admin, Service, User
Version	700(i6k), 110(i3/i6)
Parameters	<p>Query parameters names are type, state, start, length, frame and rack with the following valid values:</p> <ul style="list-style-type: none"> • type="storage", "ie", "drive" or "xie" • state="full" or "empty" • start=0-n • length=1-n or -1 for all media. • frame=0 – maximum number of frames • rack = 1 or 2So to retrieve all segments in one call,

URI	<i>aml/partition/{name}/segments</i>
	“aml/partition/{name}/segments?start=0&length=-1” which is the default if no range is specified. To retrieve all drive segments “aml/partition/{name}/segments?type=drive”
Request Header	N/A
Request Data	N/A
Response Codes	200, 404
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 178: segmentList

Table 194: POST *aml/partition/{name}/segments*

Product Support: Scalar i6k, Scalar i3, Scalar i6

Description: Add the list of segments to the partition whose name is given by URI path template “name”. The added segments must not be currently owned by this partition or another partition, they must be available. To discover which segments are available, use the following URI: Table 220: GET *aml/physicalLibrary/segments*.

Example 1: To add a drive to a partition, send the request shown below.

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:segmentList xmlns:ns2="http://automatedMediaLibrary/">
  <segment>
    <coordinate>
      <frame>1</frame>
      <rack>1</rack>
      <section>2</section>
      <column>1</column>
      <row>1</row>
      <type>4</type>
    </coordinate>
  </segment>
</ns2:segmentList>
```

Example 2: Add 2 storage segments and on IE segment.

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:segmentList xmlns:ns2="http://automatedMediaLibrary/">
  <segment>
    <coordinate>
      <frame>0</frame>
      <rack>1</rack>
      <section>7</section>
      <column>3</column>
      <row>1</row>
      <type>2</type>
    </coordinate>
  </segment>
  <segment>
    <coordinate>
      <frame>0</frame>
```

```

    <rack>1</rack>
    <section>8</section>
    <column>3</column>
    <row>1</row>
    <type>2</type>
  </coordinate>
</segment>
<segment>
  <coordinate>
    <frame>1</frame>
    <rack>2</rack>
    <section>2</section>
    <column>3</column>
    <row>1</row>
    <type>3</type>
  </coordinate>
</segment>
</ns2:segmentList>

```

Example 3: The above 2 requests combined into one single request.

```

<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:segmentList xmlns:ns2="http://automatedMediaLibrary/">
  <segment>
    <coordinate>
      <frame>1</frame>
      <rack>1</rack>
      <section>2</section>
      <column>1</column>
      <row>1</row>
      <type>4</type>
    </coordinate>
  </segment>
  <segment>
    <coordinate>
      <frame>0</frame>
      <rack>1</rack>
      <section>7</section>
      <column>3</column>
      <row>1</row>
      <type>2</type>
    </coordinate>
  </segment>
  <segment>
    <coordinate>
      <frame>0</frame>
      <rack>1</rack>
      <section>8</section>
      <column>3</column>
      <row>1</row>
      <type>2</type>
    </coordinate>
  </segment>
  <segment>
    <coordinate>

```

```

    <frame>1</frame>
    <rack>2</rack>
    <section>2</section>
    <column>3</column>
    <row>1</row>
    <type>3</type>
  </coordinate>
</segment>
</ns2:segmentList>

```

The following URI can be used to find what segments are currently available (not part of an existing partition): Table 220: GET aml/physicalLibrary/segments.

URI	aml/partition/{name}/segments
Method	POST
User Role Access	Admin, Service
Version	700(i6k), 110(i3/i6)
Parameters	N/A
Request Header	Content-Type:application/xml or application/json
Request Data	See Figure 178: segmentList
Response Codes	200, 403, 404
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 178: segmentList

Table 195: DELETE aml/partition/{name}/segments

Product Support: Scalar i6k, Scalar i3, Scalar i6

Description: Delete the list of segments from the partition whose name is given by the URI path template “name”.

URI	aml/partition/{name}/segments
Method	DELETE
User Role Access	Admin, Service
Version	700(i6k), 110(i3/i6)
Parameters	N/A
Request Header	Content-Type:application/xml or application/json
Request Data	See Figure 178: segmentList
Response Codes	200, 403, 404
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 178: segmentList

Table 196: PUT aml/partition/{name}/segments

Product Support: Scalar i6k, Scalar i3, Scalar i6

Description: Reconfigure the partition whose name is given by the URI path template “name” with the new segmentList request data. The segmentList can contain storage, drive, ie and extended ie segments. The segmentList can contain segments that currently belong to the partition or available (non-allocated) segments. You cannot assign segments that are currently owned by another partition.

The example below reconfigures a partition with one drive and 3 storage segments (18 slots).

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:segmentList xmlns:ns2="http://automatedMediaLibrary/">
  <segment>
    <coordinate>
      <frame>1</frame>
      <rack>1</rack>
      <section>9</section>
      <column>1</column>
      <row>1</row>
      <type>4</type>
    </coordinate>
    <size>1</size>
    <configuredType>0</configuredType>
  </segment>
  <segment>
    <coordinate>
      <frame>0</frame>
      <rack>1</rack>
      <section>1</section>
      <column>4</column>
      <row>1</row>
      <type>2</type>
    </coordinate>
    <size>6</size>
    <configuredType>0</configuredType>
  </segment>
  <segment>
    <coordinate>
      <frame>0</frame>
      <rack>1</rack>
      <section>2</section>
      <column>4</column>
      <row>1</row>
      <type>2</type>
    </coordinate>
    <size>6</size>
    <configuredType>0</configuredType>
  </segment>
  <segment>
    <coordinate>
      <frame>0</frame>
```



```

    <rack>1</rack>
    <section>3</section>
    <column>4</column>
    <row>1</row>
    <type>2</type>
  </coordinate>
  <size>6</size>
  <configuredType>0</configuredType>
</segment>
</ns2:segmentList>

```

URI	<i>aml/partition/{name}/segments</i>
Method	PUT
User Role Access	Admin, Service
Version	700(i6k), 110(i3/i6)
Parameters	N/A
Request Header	Content-Type:application/xml or application/json
Request Data	See Figure 178: segmentList
Response Codes	200, 403, 404
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 178: segmentList

Table 197: GET *aml/physicalLibrary*

Product Support: Scalar i6k, Scalar i3, Scalar i6

Description: Retrieve the physical library resource instances.

Note: The autoClean element is deprecated in the Scalar i6k as of firmware release i12. Refer to the following interface:

Table 182: GET *aml/partition/{name}/policy/driveCleaning* to change partition cleaning policies.

Note: The autoConfiguration and autoCalibration feature are no longer supported as of Scalar i6k firmware release i12.

URI	<i>aml/physicalLibrary</i>
Method	GET
User Role Access	Admin, Service, User
Version	700(i6k), 110(i3/i6)
Parameters	N/A
Request Header	N/A
Request Data	N/A
Response Codes	200
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 152: physicalLibrary

Table 198: PUT aml/physicalLibrary

Product Support: Scalar i6k, Scalar i3, Scalar i6

Description: Update the physical library settings features. The settings that can be modified are listed in the physicalLibrary.phySettings object, and include the following features:

- driveSerialNumberSpoofing – enable or disable the ability for the library to present drives with logical serial numbers, rather than physical serial numbers, to a host.
- autoInventory – enable/disable a library inventory every time the library is rebooted or a Scalar i6k main access door closes.
- autoCalibration – Not used. Deprecated in Scalar i6k as of firmware release i12 (680Q/680H).
- autoConfiguration – Not used. Deprecated in Scalar i6k as of firmware release i12 (680Q/680H).
- autoCleaning – Not used. Deprecated in Scalar i6k as of firmware release i12 (680Q/680H). Drive cleaning is now configured on a partition basis, see Table 182: GET aml/partition/{name}/policy/driveCleaning.
- autoDriveUnload – enable/disable functionality for the library to perform drive unload and eject operation if the host application does not perform drive unload requests to a drive prior to requesting the tape library to move media from a drive to a new location.
- Ipv6 – Support for IPv6 configurations is enabled by default and not changeable.

Note: Enabling and disabling functionality has been deprecated as of Scalar i6k firmware release i12.3.

- extendedIe – Enable/disable Extended IE configuration feature, which allows for the configuration of additional storage slots to be used as IE slots if the number of physical I/E station slots is insufficient .

Note: Supported in Scalar i6k only.

- sendUsageStatistics – Determines the notification interval in which the library sends library usage and performance data to Quantum.
- healthCheck – Defines the interval in which the library performs automatic health checks on the robot(s), tower(s) and robotic power rails. The intervals are defined in days (0-180), 0 indicating the health check is turned off.

Note: This feature is only supported by the Scalar i6k.

- aisleLights – Defines the time period the aisle lights will be turned on. Valid values are 30 or 60 minutes, or 0 for always turned off.

Note: This feature is only supported by the Scalar i6k.

- webCamera – Set the IP of the host that is running the application that is managing the camera mounted in the library.
Note: This feature is only supported by the Scalar i6k.
- icmpService – enable/disable the capability for device on the network to ping the library.
- sshService – Enable/disable the capability to establish a secure shell (ssh) connection to the library.
- cliService – Enable/disable support for the legacy command line interface (CLI).
Note: This feature is only supported by the Scalar i6k.
- xmlInterfaceService – Enable/disable the Quantum Vision access interface.
Note: This feature is only supported by the Scalar i6k.
- serviceLogin – Enable/disable the ability of a Service user to login to the library from local and remote interfaces, i.e. Graphical User.

To enable a service user to have access from the local user interface for a period of 6 hours you would use the following:

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:physicalLibrary xmlns:ns2="http://automatedMediaLibrary/">
  <phySettings>
    <serviceLogin>
      <enabled>true</enabled>
      <enabledRemoteAccess>false</enabledRemoteAccess>
      <remoteAccessTimeout>0</remoteAccessTimeout>
      <enableLocalAccess>true</enableLocalAccess>
      <localAccessTimeout>6</localAccessTimeout>
    </serviceLogin>
  </phySettings>
</ns2:physicalLibrary>
```

- sessionTimeout – Set the session timeout a user will be automatically logged out (session will be terminated). The valid values are, 1 through 1440 minutes. The timeout is based on the length of inactivity of a user login session.
- snmp – Configure the library SNMP settings.
- Smis – Configure the library SMIS settings.

One or more settings can be applied on a single request by including the feature for an update. For example if you want to update the extended I/E and sessionTimeout settings, you can use the following XML:

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:physicalLibrary xmlns:ns2="http://automatedMediaLibrary/">
  <phySettings>
    <extendedIe>
      <enabled>true</enabled>
    </extendedIe>
  </phySettings>
</ns2:physicalLibrary>
```

```

<sessionTimeout>
  <minutes>15</minutes>
</sessionTimeout>
</phySettings>
</ns2:physicalLibrary>

```

A feature settings update may fail for some reason. If the feature was included with other feature updates in a single request, it will return a HTTP failure status, but that does not necessarily mean that all the features were not updated successfully. It is recommended that you do a GET request after a failure has occurred to retrieve the current setting of the individual features.

URI	<i>aml/physicalLibrary</i>
Method	PUT
User Role Access	Admin, Service
Version	700(i6k), 110(i3/i6)
Parameters	N/A
Request Header	Content-Type:application/xml or application/json
Request Data	See Figure 152: physicalLibrary
Response Codes	200, 403
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 152: physicalLibrary

Table 199: GET *aml/physicalLibrary/elements*

Product Support: Scalar i6k, Scalar i3, Scalar i6

Description: Retrieve the elementList resource instances.

URI	<i>aml/physicalLibrary/elements</i>
Method	GET
User Role Access	Admin, Service, User
Version	700(i6k), 110(i3/i6)
Parameters	<p>Query parameters names are partition, state, type, start, length, frame, rack with the following valid values:</p> <ul style="list-style-type: none"> • partition=name of partition • state="full" or "empty". The slot contains a media (full) or the slot is empty (empty) • type="storage", "ie", "drive" "xie" or "cleaning" • start=0-n • length=1-n or -1 for all elements. • frame=0 – maximum number of frames (specify which frame you want) • rack = 1 or 2 • coordinate = Frame,Rack,Section,Column,Row,Type. A comma separated coordinate. This query

URI	<i>aml/physicalLibrary/elements</i>
	parameter should not be used with any other query parameter. See Figure 21: coordinate So to retrieve all elements in one call use “aml/physicalLibrary/elements?start=0&length=-1” which is the default if no range is specified. To retrieve all elements belonging to partition named TEST use “aml/physicalLibrary/elements?partition=TEST”. To retrieve all ie elements that contain media use “aml/physicalLibrary/elements?type=ie&state=full”.
Request Header	N/A
Request Data	N/A
Response Codes	200
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 61: elementList

Table 200: GET *aml/physicalLibrary/mode*

Product Support: Scalar i6k

Description: Retrieve the current physical library mode, 1 (online) or 2(offline).

URI	<i>aml/physicalLibrary/mode</i>
Method	GET
User Role Access	Admin, Service, User
Version	700(i6k), 110(i3/i6)
Parameters	N/A
Request Header	N/A
Request Data	N/A
Response Codes	200
Response Header	Content-Type:text/plain or application/json
Response Data	1 or 2

Table 201: PUT *aml/physicalLibrary/mode*

Product Support: Scalar i6k

Description: Change the physical library mode to 1 (online) or 2 (offline) which will affect all logical library access.

URI	<i>aml/physicalLibrary/mode</i>
Method	PUT
User Role Access	Admin, Service
Version	700(i6k), 110(i3/i6)
Parameters	N/A
Request Header	Content-Type:text/plain or application/json
Request Data	1 or 2
Response Codes	200, 403
Response Header	Content-Type:text/plain or application/json

URI	<i>aml/physicalLibrary/mode</i>
Response Data	1 or 2

Table 202: GET *aml/physicalLibrary/operations*

Product Support: Scalar i6k

Description: Retrieve the list of tasks resources that were started/requested.

URI	<i>aml/physicalLibrary/operations</i>
Method	GET
User Role Access	Admin, Service, User
Version	700(i6k)
Parameters	Query parameters names are type with the following valid values: <ul style="list-style-type: none"> type = 0 (All), 1 (inventory), 2 (library shutdown), 3 (library reboot), 4 (identify drive), 5 (drive clean), 6 (power cycle FC IO blade), 7 (reset FC IO blade), 8 (identify FC IO blade), 9 (Identify Ethernet Expansion Blade), 10 (Auto Import Media), 11 (Generate Command History Logs)
Request Header	N/A
Request Data	N/A
Response Codes	200
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 189: taskList

Table 203: GET *aml/physicalLibrary/operations/inventory*

Product Support: Scalar i6k

Description: Retrieve a list of inventory tasks that we requested on the physical library.

URI	<i>aml/physicalLibrary/operations/inventory</i>
Method	GET
User Role Access	Admin, Service, User
Version	700(i6k)
Parameters	N/A
Request Header	N/A
Request Data	N/A
Response Codes	200
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 189: taskList

Table 204: POST aml/physicalLibrary/operations/inventory

Product Support: Scalar i6k, Scalar i3, Scalar i6

Description: Start an inventory of the physical library using the inventoryTask object. This object will specify the starting element address and ending element address (inventory range) and whether to take the physical library offline. If the physical library is not taken offline the inventory will fail. On the i6k to do a full inventory of the physical library, set the startElement and elementCount to 0 in the inventoryTask object. See example below

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:inventoryTask xmlns:ns2="http://automatedMediaLibrary/">
  <startElement>0</startElement>
  <elementCount>0</elementCount>
</ns2:inventoryTask>
```

The Scalar i6k supports an inventory as an asynchronous request. The new task resource URI that was created will be included in the 'Location' header of the response. See Table 172: POST aml/partition/{name}/operations/inventory.

In the Scalar i3/i6, the request is synchronous which blocks until the inventory completes.

Note: The Scalar i6k supports an inventory as an asynchronous request. The new task resource URI that was created will be included in the 'Location' header of the response. See Table 205: GET aml/physicalLibrary/operations/inventory/{id}. To determine if an inventory task has completed, check the state element of the task object; when complete the state should be 5 (Completed), see Figure 190: task.

In the Scalar i3/i6, the request is synchronous which blocks until the inventory completes.

URI	aml/physicalLibrary/operations/inventory
Method	POST
User Role Access	Admin, Service
Version	700(i6k), 110(i3/i6)
Parameters	N/A
Request Header	Content-Type:application/xml or application/json
Request Data	See Figure 105: inventoryTask (i6k only)
Response Codes	202(i6k) 200(i3/i6), 403
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 203: WSResultCode

Table 205: GET aml/physicalLibrary/operations/inventory/{id}

Product Support: Scalar i6k

Description: Retrieve the task object with the id given by URI path template “id”.

To retrieve a task object with id of 86, use the following URI:
'aml/physicalLibrary/operations/inventory/86'.

URI	aml/physicalLibrary/operations/inventory/{id}
Method	GET
User Role Access	Admin, Service, User
Version	700(i6k)
Parameters	N/A
Request Header	N/A
Request Data	N/A
Response Codes	200, 404
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 190: task

Table 206: DELETE aml/physicalLibrary/operations/inventory/{id}

Product Support: Scalar i6k

Description: Delete the task object with the id given by URI path template “id”.

Note: This does not stop the specific inventory request. It will clean up operation tasks from the library’s database.

URI	aml/physicalLibrary/operations/inventory/{id}
Method	DELETE
User Role Access	Admin, Service
Version	700(i6k)
Parameters	N/A
Request Header	N/A
Request Data	N/A
Response Codes	200, 403, 404
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 203: WSResultCode

Table 207: GET aml/physicalLibrary/operations/shutdown

Product Support: Scalar i6k

Description: Retrieve a list of shutdown tasks that were requested on the physical library.

URI	aml/physicalLibrary/operations/shutdown
Method	GET
User Role Access	Admin, Service, User
Version	700(i6k), 110(i3/i6)
Parameters	N/A

URI	<i>aml/physicalLibrary/operations/shutdown</i>
Request Header	N/A
Request Data	N/A
Response Codes	200
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 189: taskList

Table 208: POST *aml/physicalLibrary/operations/shutdown*

Product Support: Scalar i6k, Scalar i3, Scalar i6

Description: Shut down the library using the shutdownTask object. This object must specify a reboot element with a value of false, otherwise the library will reboot. To complete the shutdown process you must physically push the library power button.

URI	<i>aml/physicalLibrary/operations/shutdown</i>
Method	POST
User Role Access	Admin, Service
Version	700(i6k), 110(i3/i6)
Parameters	N/A
Request Header	Content-Type:application/xml or application/json
Request Data	See Figure 184: shutdownTask
Response Codes	202, 403
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 203: WSResultCode

Table 209: GET *aml/physicalLibrary/operations/shutdown/{id}*

Product Support: Scalar i6k

Description: Retrieve the task object of type 2 (Shutdown) with the id given by URI path template “id”.

URI	<i>aml/physicalLibrary/operations/shutdown/{id}</i>
Method	GET
User Role Access	Admin, Service, User
Version	700(i6k)
Parameters	N/A
Request Header	N/A
Request Data	N/A
Response Codes	200, 404
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 190: task

Table 210: DELETE aml/physicalLibrary/operations/shutdown/{id}

Product Support: Scalar i6k

Description: Delete the task object of type 2 (Shutdown) with the id given by URI path template “id”.

Note: This request does not stop the shutdown operation in progress

<i>URI</i>	<i>aml/physicalLibrary/operations/shutdown/{id}</i>
Method	DELETE
User Role Access	Admin, Service
Version	700(i6k)
Parameters	N/A
Request Header	N/A
Request Data	N/A
Response Codes	200, 403, 404
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 190: task

Table 211: GET aml/physicalLibrary/operations/reboot

Product Support: Scalar i6k

Description: Retrieve a list of reboot tasks that were previously requested.

<i>URI</i>	<i>aml/physicalLibrary/operations/reboot</i>
Method	GET
User Role Access	Admin, Service, User
Version	700(i6k), 110(i3/i6)
Parameters	N/A
Request Header	N/A
Request Data	N/A
Response Codes	200
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 189: taskList

Table 212: POST aml/physicalLibrary/operations/reboot

Product Support: Scalar i6k, Scalar i3, Scalar i6

Description: Reboot the library using the shutdownTask object. This object must specify a reboot element with a value of true, otherwise the library will shut down.

<i>URI</i>	<i>aml/physicalLibrary/operations/reboot</i>
Method	POST
User Role Access	Admin, Service
Version	700(i6k), 110(i3/i6)
Parameters	N/A

URI	<i>aml/physicalLibrary/operations/reboot</i>
Request Header	Content-Type:application/xml or application/json
Request Data	See Figure 184: shutdownTask
Response Codes	202, 403
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 203: WSResultCode

Table 213: GET *aml/physicalLibrary/operations/reboot/{id}*

Product Support: Scalar i6k

Description: Retrieve the task object of type 3 (Reboot) with the id given by URI path template “id”.

URI	<i>aml/physicalLibrary/operations/reboot/{id}</i>
Method	GET
User Role Access	Admin, Service, User
Version	700(i6k)
Parameters	N/A
Request Header	N/A
Request Data	N/A
Response Codes	200, 404
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 190: task

Table 214: DELETE *aml/physicalLibrary/operations/reboot/{id}*

Product Support: Scalar i6k

Description: Delete the task object of type 3 (Reboot) with the id given by URI path template “id”.

Note: This request does not stop the reboot operation in progress

URI	<i>aml/physicalLibrary/operations/reboot/{id}</i>
Method	DELETE
User Role Access	Admin, Service
Version	700(i6k)
Parameters	N/A
Request Header	N/A
Request Data	N/A
Response Codes	200, 403, 404
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 203: WSResultCode

Table 215: GET aml/physicalLibrary/quattro/modules

Product Support: Scalar i3, Scalar i6

Description: Retrieve a list of module resources.

<i>URI</i>	<i>aml/physicalLibrary/quattro/modules</i>
Method	GET
User Role Access	Admin, Service, User
Version	110(i3/i6)
Parameters	N/A
Request Header	N/A
Request Data	N/A
Response Codes	200
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 136: moduleList

Table 216: GET aml/physicalLibrary/subset/configuration

Product Support: Scalar i6k, Scalar i3, Scalar i6

Description: Retrieve a subset of the physicalLibrary resource, which groups all configuration options of the library.

<i>URI</i>	<i>aml/physicalLibrary/subset/configuration</i>
Method	GET
User Role Access	Admin, Service, User
Version	720(i6k), 110(i3/i6)
Parameters	N/A
Request Header	N/A
Request Data	N/A
Response Codes	200
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 153: physicalLibraryConfiguration

Table 217: GET aml/physicalLibrary/subset/remoteAccess

Product Support: Scalar i6k, Scalar i3, Scalar i6

Description: Retrieve a subset of the physicalLibrary resource, which groups all remote network service access options of the library.

<i>URI</i>	<i>aml/physicalLibrary/subset/remoteAccess</i>
Method	GET
User Role Access	Admin, Service, User
Version	720(i6k), 110(i3/i6)
Parameters	N/A
Request Header	N/A
Request Data	N/A

URI	<i>aml/physicalLibrary/subset/remoteAccess</i>
Response Codes	200
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 154: physicalLibraryRemoteAccess

Table 218: GET *aml/physicalLibrary/subset/resources*

Product Support: Scalar i6k, Scalar i3, Scalar i6

Description: Retrieve a subset of the physicalLibrary resource, which groups all library resources.

URI	<i>aml/physicalLibrary/subset/resources</i>
Method	GET
User Role Access	Admin, Service, User
Version	720(i6k), 110(i3/i6)
Parameters	N/A
Request Header	N/A
Request Data	N/A
Response Codes	200
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 155: physicalLibraryResources

Table 219: GET *aml/physicalLibrary/subset/settings*

Product Support: Scalar i6k, Scalar i3, Scalar i6

Description: Retrieve a subset of the physicalLibrary resource, which groups similar physical library settings.

URI	<i>aml/physicalLibrary/subset/settings</i>
Method	GET
User Role Access	Admin, Service, User
Version	720(i6k), 110(i3/i6)
Parameters	N/A
Request Header	N/A
Request Data	N/A
Response Codes	200
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 156: physicalLibrarySettings

Table 220: GET *aml/physicalLibrary/segments*

Product Support: Scalar i6k, Scalar i3, Scalar i6

Description: Retrieve a list of segment resources

URI	<i>aml/physicalLibrary/segments</i>
Method	GET
User Role Access	Admin, Service, User
Version	700(i6k), 110(i3/i6)
Parameters	<p>Query parameters names are partition, status, type, start, length, frame, rack with the following valid values:</p> <ul style="list-style-type: none"> • partition=name of partition • status="available" or "used" (owned by a partition or not) • type="storage", "ie", "drive", "xie" or "cleaning" • start=0-n • length=1-n or -1 for all media. • frame=0 – maximum number of frames • rack = 1 or 2 <p>So to retrieve all segments in one call use "aml/physicalLibrary/segments?start=0&length=1" which is the default if no range is specified. To retrieve all segments belonging to partition named LL1 use "aml/physicalLibrary/segments?partition=LL1". To retrieve all ie segments use "aml/physicalLibrary/segments?type=ie".</p>
Request Header	N/A
Request Data	N/A
Response Codes	200, 404
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 178: segmentList

Table 221: GET *aml/physicalLibrary/segments/amp*

Product Support: Scalar i6k

Description: Retrieve the storage segment resources belonging to Automated Media Pool (AMP) partitions.

URI	<i>aml/physicalLibrary/segments/amp</i>
Method	GET
User Role Access	Admin, Service, User
Version	700(i6k)
Parameters	N/A
Request Header	N/A
Request Data	N/A
Response Codes	200
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 178: segmentList

Table 222: PUT aml/physicalLibrary/segments/amp

Product Support: Scalar i6k

Description: Change the owner of the segments in the segmentList. This interface is used to reassign *storage* segments from a Standard partition to an Automated Media Pool (AMP) partition and vice versa.

When reassigning storage segments from an AMP to a Standard partition the Standard partition should have enough available AMP extensions configured to satisfy the request (reassign segments <= AMP extensions).

The segment list in the request must belong to a single partition and must be reassigned to a single partition.

In the example below there is a segment that belongs to an AMP partition called AMP and we want to reassign it to a partition called LL1. The segmentList will contain a single segment that currently belongs to the AMP partition with its owner element changed to LL1, the partition to which the segment will be reassigned.

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:segmentList xmlns:ns2="http://automatedMediaLibrary/">
  <segment>
    <coordinate>
      <frame>0</frame>
      <rack>1</rack>
      <section>4</section>
      <column>3</column>
      <row>1</row>
      <type>2</type>
    </coordinate>
    <size>6</size>
    <owner>LL1</owner>
    <configuredType>0</configuredType>
  </segment>
</ns2:segmentList>
```

To retrieve a list of AMP storage segments use the GET request above. To retrieve a list of Standard storage segments, use

Table 193: GET aml/partition/{name}/segments with the appropriate query parameters.

URI	aml/physicalLibrary/segments/amp
Method	PUT
User Role Access	Admin, Service
Version	700(i6k)
Parameters	N/A
Request Header	Content-Type:application/xml or application/json
Request Data	See Figure 178: segmentList
Response Codes	200, 403, 404
Response Header	Content-Type:application/xml or application/json

URI	<i>aml/physicalLibrary/segments/amp</i>
Response Data	See Figure 203: WSResultCode

Table 223: GET *aml/physicalLibrary/segments/cleaning*

Product Support: Scalar i6k, Scalar i3, Scalar i6

Description: Retrieve a list of cleaning segment resources. These segments will contain cleaning media used for library initiated cleaning.

URI	<i>aml/physicalLibrary/segments/cleaning</i>
Method	GET
User Role Access	Admin, Service, User
Version	700(i6k), 110(i3/i6)
Parameters	N/A
Request Header	N/A
Request Data	N/A
Response Codes	200, 404
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 178: segmentList

Table 224: POST *aml/physicalLibrary/segments/cleaning*

Product Support: Scalar i6k, Scalar i3, Scalar i6

Description: Create a new cleaning segment resource. If no cleaning media are already present in the segment, they can be imported into the segment, see Table 121: POST *aml/media/operations/moveMedium*.

URI	<i>aml/physicalLibrary/segments/cleaning</i>
Method	POST
User Role Access	Admin, Service
Version	700(i6k), 110(i3/i6)
Parameters	N/A
Request Header	Content-Type:application/xml or application/json
Request Data	See Figure 179: segment
Response Codes	201, 403, 404
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 203: WSResultCode

Table 225: DELETE *aml/physicalLibrary/segments/cleaning*

Product Support: Scalar i6k, Scalar i3, Scalar i6

Description: Remove a cleaning segment resource. This will make the segment available, so it can be used by a partition.

URI	<i>aml/physicalLibrary/segments/cleaning</i>
Method	DELETE
User Role Access	Admin, Service
Version	700(i6k), 110(i3/i6)
Parameters	N/A
Request Header	Content-Type:application/xml or application/json
Request Data	See Figure 179: segment. This will be the current cleaning segment you want to delete.
Response Codes	201, 403, 404
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 203: WSResultCode

Table 226: POST *aml/physicalLibrary/segments/operations/inventory*

Product Support: Scalar i3, Scalar i6

Description: Request the library to do an inventory on the list of segments/magazines/drives provided by the segmentList. The only element of the segment object that needs to be provided is the coordinate.

URI	<i>aml/physicalLibrary/segments/operations/inventory</i>
Method	POST
User Role Access	Admin, Service
Version	110(i3/i6)
Parameters	N/A
Request Header	Content-Type:application/xml or application/json
Request Data	See Figure 178: segmentList
Response Codes	200, 403, 404
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 203: WSResultCode

Table 227: GET *aml/physicalLibrary/status*

Product Support: Scalar i6k, Scalar i3, Scalar i6

Description: Retrieve the library status information resource. This resource reports general state/status information about the library.

Note: This URI does not affect the user's session timeout; all other URIs are considered a user activity and reset the session timeout.

URI	<i>aml/physicalLibrary/status</i>
Method	GET
User Role Access	Admin, Service, User
Version	700(i6k), 110(i3/i6)
Parameters	N/A
Request Header	N/A

URI	aml/physicalLibrary/status
Request Data	N/A
Response Codes	200
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 116: libraryStatus

Table 228: GET aml/service/logs

Product Support: Scalar i6k, Scalar i3, Scalar i6

Description: Retrieve a list of service logs.

URI	aml/service/logs
Method	GET
User Role Access	Admin, Service, User
Version	720(i6k), 110(i3/i6)
Parameters	N/A
Request Header	N/A
Request Data	N/A
Response Codes	200
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 182: serviceLogList

Table 229: GET aml/service/log/{name}

Product Support: Scalar i6k, Scalar i3, Scalar i6

Description: Retrieve the service log whose name is given by the URI path template “name”. The available log names are provide by the interface Table 228: GET aml/service/logs

URI	aml/service/log/{name}
Method	GET
User Role Access	Admin, Service, User
Version	720(i6k), 110(i3/i6)
Parameters	Query parameter names are “save” with the following valid values: <ul style="list-style-type: none"> • save=the default name you want the browser to save the contents of the file too. If no name is given a default name will be supplied by the Web Server. The purpose of the save parameter is to tell the Web Browser that this is an attachment.
Request Header	N/A
Request Data	N/A
Response Codes	200
Response Header	Content-Type: application/octet-stream, application/xml or application/json

URI	<i>aml/service/log/{name}</i>
	Content-Disposition: attachment; filename="the name of the file" (This will only happen if the save query parameter is requested) On success Cookie: name= FileDownloadingProgressCookie, value=Done
Response Data	The log file content.

Table 230: POST *aml/service/log/{name}/email*

Product Support: Scalar i6k, Scalar i3, Scalar i6

Description: Email the service log whose name is given by the URI path template "name".

URI	<i>aml/service/log/{name}/email</i>
Method	POST
User Role Access	Admin, Service
Version	720(i6k), 110(i3/i6)
Parameters	N/A
Request Header	Content-Type: application/xml or application/json
Request Data	See Figure 63: email
Response Codes	200, 403
Response Header	Content-Type: application/xml or application/json
Response Data	See Figure 203: WSResultCode

Table 231: POST *aml/service/resetFactoryDefault*

Product Support: Scalar i6k, Scalar i3, Scalar i6

Description: Reset the library's configuration to factory defaults.

URI	<i>aml/service/resetFactoryDefault</i>
Method	POST
User Role Access	Admin, Service
Version	720(i6k), 110(i3/i6)
Parameters	N/A
Request Header	N/A
Request Data	N/A
Response Codes	202, 403
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 203: WSResultCode

Table 232: GET aml/service/vt/test

Product Support: Scalar i6k, Scalar i3, Scalar i6

Description: Retrieve a list of supported tests.

<i>URI</i>	<i>aml/service/vt/test</i>
Method	GET
User Role Access	Admin, Service, User
Version	735(i6k), 110(i3/i6)
Parameters	N/A
Request Header	N/A
Request Data	N/A
Response Codes	200
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 110: libraryDiagnosticTestList

Table 233: POST aml/service/vt/test/abort

Product Support: Scalar i6k, Scalar i3, Scalar i6

Description: Stop the currently running diagnostic test and end the session.

<i>URI</i>	<i>aml/service/vt/test/abort</i>
Method	POST
User Role Access	Admin, Service
Version	735(i6k), 110(i3/i6)
Parameters	N/A
Request Header	N/A
Request Data	N/A
Response Codes	200, 403
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 203: WSResultCode

Table 234: GET aml/service/vt/test/operations

Product Support: Scalar i6k, Scalar i3, Scalar i6

Description: Retrieve a list of requested VT tasks. The supported VT tasks are as follows:

- 12 (Start Test Diagnostic Session (i6k only))
- 13 (Finish Test Diagnostic Session (i6k only))
- 14 (Robot Accessor Test (i6k only))
- 15 (Robot Picker Test (i6k only))
- 16 (Robot Assembly Test (i6k and i3/i6))

- 17 (IE Station Assembly Test (i6k only))
- 18 (Tower Assembly Test (i6k only))
- 19 (Tower Scanner Test (i6k only))
- 20 (Robot Scanner Test (i6k only))
- 21 (Library Get/Put Test (i6k only))
- 22 (Drive Assembly Test (i6k and i3/i6))
- 23 (Magazine Test (i3/i6 only))
- 24 (Installation Verification Test (IVT) (i6k and i3/i6))
- 27 (Library Alignment Test (i6k only))
- 28 (Barcode Label Test (i6k only))

URI	aml/service/vt/test/operations
Method	GET
User Role Access	Admin, Service, User
Version	735(i6k), 110(i3/i6)
Parameters	<p>Query parameters names are type with the following valid values:</p> <ul style="list-style-type: none"> • type=# or lastRun <p>If type = # then a taskList will be returned with the tasks of the specified task type number. So to retrieve a list of Robot tasks that were run use the following aml/service/vt/test/operations?type=16 If no Robot tests were run, you will get an empty list. If type=lastRun, you will get a list of the last run task types, no more than one for each task type and if a specific task type was never run, it will not be included.</p>
Request Header	N/A
Request Data	N/A
Response Codes	200
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 189: taskList

Table 235: POST aml/service/vt/test/operations

Product Support: Scalar i6k, Scalar i3, Scalar i6

Description: Start a VT diagnostic test task.

The first task that must be called on the i6k is task type 12 (Start Test Diagnostic Session), except in the case where 24 (IVT) is requested. This will prepare the library for VT tests to run on the i6k. If you do not have a task type 12 running then no other diagnostic test task will be allowed to run, except for task type 24, again, this is an i6k requirement only. To finish a VT diagnostic test session, you need to call test type 13, except for task type 24, this is also only an i6k requirement. Some VT task types take a libraryTestParameters object which has multiple options, here is the list of valid options for each task type.

12 (Start Test Diagnostic Session(i6k only)) No libraryTestParameters required

13 (Finish Test Diagnostic Session(i6k only)) No libraryTestParameters required

14 (Robot Accessor Test (i6k only))

- libraryTestParameters .robot

Note: You must specify 0(Left) or 1(Right) robot but not 2(Both).

15 (Robot Picker Test (i6k only))

- libraryTestParameters .robot
- libraryTestParameters .mediaLocations (Scratch tape, must be an IE Station slot containing media, this parameter is optional.)
- libraryTestParameters .slotLocation (This can be a Storage, Drive or IE slot.)

16 (Robot Assembly Test (i6k and i3/i6))

- libraryTestParameters .robot
- libraryTestParameters.startModule
- libraryTestParameters.endModule
- libraryTestParameters.startRack
- libraryTestParameters.endRack
- libraryTestParameters .mediaLocations (Scratch tape, must be an IE Station slot containing media)

17 (IE Station Assembly Test (i6k only))

- libraryTestParameters .robot

- libraryTestParameters.startModule (Starting IE Station Number)
- libraryTestParameters.endModule (Ending IE Station Number)
- libraryTestParameters.mediaLocations (Scratch Tape, must be an IE Station slot containing media.)

18 (Tower Assembly Test (i6k only))

- libraryTestParameters .robot
- libraryTestParameters.startModule
- libraryTestParameters.endModule

Note: The start and end modules/frames must contain towers. Use the interface Table 57: GET aml/devices/towers to retrieve a list of configured towers.

19 (Tower Scanner Test (i6k only))

- libraryTestParameters .robot
- libraryTestParameters.startModule
- libraryTestParameters.endModule

Note: The start and end modules/frames must contain towers with scanners installed.

20 (Robot Scanner Test (i6k only))

- libraryTestParameters .robot
- libraryTestParameters.startModule
- libraryTestParameters.endModule
- libraryTestParameters.startRack
- libraryTestParameters.endRack

21 (Library Get/Put Test (i6k only))

- libraryTestParameters .robot
- libraryTestParameters.startModule
- libraryTestParameters.endModule
- libraryTestParameters.startRack

- `libraryTestParameters.endRack`
- `libraryTestParameters.mediaLocations` (Scratch tapes, must be an IE Station slot containing media.)

22 (Drive Assembly Test (i6k and i3/i6))

- `libraryTestParameters .robot` (i6k Only)
- `libraryTestParameters.mediaLocations` (Scratch tape, must be an IE Station slot containing media. (i6k Only))
- `libraryTestParameters.startLocation`
- `libraryTestParameters.endLocation`

23 (Magazine Test (i3/i6 only))

- `libraryTestParameters.startLocation`
- `libraryTestParameters.endLocation`

24 (IVT Test (i6k and i3/i6))

- `libraryTestParameters.mediaLocations` (Scratch tape(s), must be one or more IE Station slots containing media. It is recommended to use 2 scratch tapes in a library with dual robots (i6k only))
- `libraryTestParameters.partialIvt`, this is optional and should include the following elements: `libraryTestParameters.startModule`, `libraryTestParameters.endModule`, `libraryTestParameters.startRack` and `libraryTestParameters.endRack`. If set to true, it will perform a partial IVT on the modules and racks specified (i6k only)
- `libraryTestParameters.startLocation` (i3/i6 only)
- `libraryTestParameters.endLocation` i3/i6 only)

27 (Library Alignment Test (i6k only))

- `libraryTestParameters .robot`
- `libraryTestParameters.startModule`
- `libraryTestParameters.endModule`
- `libraryTestParameters.startRack`

- libraryTestParameters.endRack

28 (Barcode Label Test (i6k only))

- libraryTestParameters.robot
- libraryTestParameters.slotLocation (This can be a Storage, Drive or IE slot.)

URI	<i>aml/service/vt/test/operations</i>
Method	POST
User Role Access	Admin, Service
Version	735(i6k), 110(i3/i6)
Parameters	N/A
Request Header	Content-Type:application/xml or application/json
Request Data	See Figure 115: libraryDiagnosticTestTask
Response Codes	202, 403
Response Header	Content-Type:application/xml or application/json Location: aml/service/vt/operation/taskId (i6k only)
Response Data	See Figure 203: WSResultCode

Table 236: GET *aml/service/vt/test/operation/{taskId}*

Product Support: Scalar i6k, Scalar i3, Scalar i6

Description: Retrieve the task whose id is given by the URI template 'taskId'

URI	<i>aml/service/vt/test/operation/{taskId}</i>
Method	GET
User Role Access	Admin, Service, User
Version	735(i6k), 110(i3/i6)
Parameters	N/A
Request Header	N/A
Request Data	N/A
Response Codes	200
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 190: task

Table 237: GET *aml/service/vt/test/sessions*

Product Support: Scalar i6k, Scalar i3, Scalar i6

Description: Retrieve a list of library diagnostic test session resources

URI	<i>aml/service/vt/test/sessions</i>
Method	GET
User Role Access	Admin, Service, User

URI	<i>aml/service/vt/test/sessions</i>
Version	735(i6k), 110(i3/i6)
Parameters	N/A
Request Header	N/A
Request Data	N/A
Response Codes	200
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 113: libraryDiagnosticTestSessionList

Table 238: GET *aml/service/vt/test/session*

Product Support: Scalar i6k, Scalar i3, Scalar i6

Description: Retrieve the last or currently running library diagnostic test session. This can be used to get results for the current or last run VT session.

URI	<i>aml/service/vt/test/session</i>
Method	GET
User Role Access	Admin, Service, User
Version	735(i6k), 110(i3/i6)
Parameters	N/A
Request Header	N/A
Request Data	N/A
Response Codes	200, 404
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 114: libraryDiagnosticTestSession

Table 239: GET *aml/service/vt/test/session/{id}*

Product Support: Scalar i6k, Scalar i3, Scalar i6

Description: Retrieve the session resource whose id is given by the URI path template “id”.

URI	<i>aml/service/vt/test/session/{id}</i>
Method	GET
User Role Access	Admin, Service, User
Version	735(i6k), 110(i3/i6)
Parameters	N/A
Request Header	N/A
Request Data	N/A
Response Codes	200, 404
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 114: libraryDiagnosticTestSession

Table 240: DELETE aml/service/vt/test/session/{id}

Product Support: Scalar i6k, Scalar i3, Scalar i6

Description: Delete the session resource whose id is given by the URI path template “id”. This will delete the session record from the library’s database.

<i>URI</i>	<i>aml/service/vt/test/session/{id}</i>
Method	DELETE
User Role Access	Admin, Service
Version	735(i6k), 110(i3/i6)
Parameters	N/A
Request Header	N/A
Request Data	N/A
Response Codes	200, 404, 403
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 114: libraryDiagnosticTestSession

Table 241: GET aml/system/configuration/record

Product Support: Scalar i6k, Scalar i3, Scalar i6

Description: Retrieve a library configuration record.

<i>URI</i>	<i>aml/system/configuration/record</i>
Method	GET
User Role Access	Admin, Service, User
Version	700(i6k), 110(i3/i6)
Parameters	Optional query parameter is save, with the following valid values <ul style="list-style-type: none">save="name" where name is a file name to use to save the configuration record/report information to. The file format will be text. The save="name" query parameter should be used by a client browser to allow the data to be saved by the browser to a file.
Request Header	N/A
Request Data	N/A
Response Codes	200
Response Header	Content-Type: text/plain or application/octet-stream On success and save= parameter is used Cookie: name=FileDownloadingProgressCookie, value=Done
Response Data	Byte Stream or text

Table 242: POST aml/system/configuration/record/email

Product Support: Scalar i6k, Scalar i3, Scalar i6

Description: Email a library configuration record to recipients specified in the provided email object.

<i>URI</i>	<i>aml/system/configuration/record/email</i>
Method	POST
User Role Access	Admin, Service
Version	700(i6k), 110(i3/i6)
Parameters	N/A
Request Header	Content-Type:application/xml or application/json
Request Data	See Figure 63: email
Response Codes	200, 403
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 203: WSResultCode

Table 243: GET aml/system/dateTime

Product Support: Scalar i6k, Scalar i3, Scalar i6

Description: Retrieve the date and time resource. This reports the time on the library with timezone included.

<i>URI</i>	<i>aml/system/dateTime</i>
Method	GET
User Role Access	Admin, Service, User
Version	700(i6k), 110(i3/i6)
Parameters	N/A
Request Header	N/A
Request Data	N/A
Response Codes	200
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 24: dateTime

Table 244: PUT aml/system/dateTime

Product Support: Scalar i6k, Scalar i3, Scalar i6

Description: Update the current date time resource on the library. The example XML object below shows the request body data used to update the time. To discover the available time zones see Table 247: GET aml/system/dateTime/timeZoneIDs.

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:dateTime xmlns:ns2="http://automatedMediaLibrary/">
  <date>2013-05-22</date>
  <time>13:56:15</time>
```

```
<timezone>American/Denver</timezone>
</ns2:dateTime>
```

URI	<i>aml/system/dateTime</i>
Method	PUT
User Role Access	Admin, Service
Version	700(i6k), 110(i3/i6)
Parameters	N/A
Request Header	Content-Type:application/xml or application/json
Request Data	See Figure 24: dateTime
Response Codes	200, 403
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 24: dateTime

Table 245: GET *aml/system/dateTime/ntp*

Product Support: Scalar i6k, Scalar i3, Scalar i6

Description: Retrieve the Network Time Protocol (NTP) resource. This is used to synchronize the library's clock with a number of NTP servers on the internet.

URI	<i>aml/system/dateTime/ntp</i>
Method	GET
User Role Access	Admin, Service, User
Version	700(i6k), 110(i3/i6)
Parameters	N/A
Request Header	N/A
Request Data	N/A
Response Codes	200
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 145: NTP

Table 246: PUT *aml/system/dateTime/ntp*

Product Support: Scalar i6k, Scalar i3, Scalar i6

Description: Update the NTP resource. To disable NTP send an empty NTP object, with no server defined.

URI	<i>aml/system/dateTime/ntp</i>
Method	PUT
User Role Access	Admin, Service
Version	700(i6k), 110(i3/i6)
Parameters	N/A
Request Header	Content-Type:application/xml or application/json
Request Data	See Figure 145: NTP

URI	<i>aml/system/dateTime/ntp</i>
Response Codes	200, 403
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 145: NTP

Table 247: GET *aml/system/dateTime/timeZoneIDs*

Product Support: Scalar i6k, Scalar i3, Scalar i6

Description: Retrieve the available list of time zone ID's. When setting the time zone use the string value reported between the values reported in parentheses. For example, from the response data below: "<ID>(GMT+13:00) MIT (WSDT)</ID>" use "MIT".

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:timeZoneIDs xmlns:ns2="http://automatedMediaLibrary/">
  <ID>(GMT-12:00) Etc/GMT+12 (GMT-12:00)</ID>
  <ID>(GMT-11:00) Etc/GMT+11 (GMT-11:00)</ID>
  <ID>(GMT+13:00) MIT (WSDT)</ID>
  <ID>(GMT+13:00) Pacific/Apia (WSDT)</ID>
  <ID>(GMT-11:00) Pacific/Midway (SDT)</ID>
  <ID>(GMT-11:00) Pacific/Niue (NUST)</ID>
  <ID>(GMT-11:00) Pacific/Pago_Pago (SDT)</ID>
  <ID>(GMT-11:00) Pacific/Samoa (SDT)</ID>
  <ID>(GMT-11:00) US/Samoa (SDT)</ID>
  <ID>(GMT-10:00) America/Adak (HADT)</ID>
  .....
</ns2:timeZoneIDs>
```

URI	<i>aml/system/dateTime/timeZoneIDs</i>
Method	GET
User Role Access	Admin, Service, User
Version	700(i6k), 110(i3/i6)
Parameters	N/A
Request Header	N/A
Request Data	N/A
Response Codes	200
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 193: timeZoneIDs

Table 248: GET *aml/system/ekm/communicationCertificates*

Product Support: Scalar i6k, Scalar i3, Scalar i6

Description: Retrieve the list of communicationCertificate resources installed on the library.

URI	<i>aml/system/ekm/communicationCertificates</i>
Method	GET
User Role Access	Admin, Service, User
Version	700(i6k), 110(i3/i6)

URI	<i>aml/system/ekm/communicationCertificates</i>
Parameters	N/A
Request Header	N/A
Request Data	N/A
Response Codes	200
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 16: communicationCertificateList

Table 249: POST *aml/system/ekm/communicationCertificates*

Product Support: Scalar i6k, Scalar i3, Scalar i6

Description: Install the communication certificates to be used between the library and the EKM servers. The following form data key value pairs are required:

For all server types, the key “type” is required:
type=qekm, tklm, skm or kmip

Note: Q-EKM and TKLM/SKLM EKM solution are only supported by the Scalar i6k.

QEKM or TKLM

root=The root certificate file

SKM

quantum=The Quantum certificate bundle file

Or the following

root= The root certificate file

admin=The admin certificate file

adminpassword=The admin password

client=The client certificate file

clientpassword=The client password

KMIP

root= The root certificate file

client=The client certificate file

clientpassword=The client password

Note: This is a licensed feature (EKM for Scalar i6k and EKM and/or SKM for Scalar i3/i6).

URI	<i>aml/system/ekm/communicationCertificates</i>
Method	POST
User Role Access	Admin, Service
Version	700(i6k), 110(i3/i6)
Parameters	N/A
Request Header	Content-Type: multipart/form-data
Request Data	N/A

URI	<i>aml/system/ekm/communicationCertificates</i>
Response Codes	200, 403
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 203: WSResultCode

Table 250: GET *aml/system/ekm/logs*

Product Support: Scalar i6k

Description: Retrieve the SKM server logs.

Note: This interface has been deprecated. The logs should be retrieved from the SKM server log capture functionality.

URI	<i>aml/system/ekm/logs</i>
Method	GET
User Role Access	Admin, Service, User
Version	700(i6k), 110(i3/i6)
Parameters	<p>Query parameter names are type and save with the following valid values:</p> <ul style="list-style-type: none"> • save=the default name you want the browser to save the contents of the file to. If no name is given a default name will be supplied by the Web Server. The purpose of the save parameter is to tell the Web Browser that this is an attachment. If the client is not a Web Browser then the 'Accept: application/octet-stream' can be used to retrieve the file data. • type=0(Primary), 1(secondary) and 2(Import Warning) <p>If no type is given, then 0 is the default.</p>
Request Header	Accept: application/octet-stream (download the file content)
Request Data	N/A
Response Codes	200, 404
Response Header	<p>Content-Type: application/octet-stream, application/xml or application/json Content-Disposition: attachment; filename="the name of the file" (This will only happen if the save query parameter is requested) Cookie: name=FileDownloadingProgressCookie, value=Done</p>
Response Data	The file content, it is in tgz format.

Table 251: GET aml/system/ekm/reports/audit/mediaStatus

Product Support: Scalar i6k, Scalar i3, Scalar i6

Description: Retrieve the list of EKM media statistics resources.

Note: This is a licensed feature (EKM for Scalar i6k and EKM and/or SKM for Scalar i3/i6).

URI	aml/system/ekm/reports/audit/mediaStatus
Method	GET
User Role Access	i6k - Admin, Service, User
Version	700(i6k), 110(i3/i6)
Parameters	<p>Optional query parameter is start, length, period, date, partition and save, with the following valid values:</p> <ul style="list-style-type: none"> • save="name" where name is a file name to use to save the media status information to. The file format will be CSV. • start=0-n • length=1-n or -1 for all records • period=the last number of days to include in the report. So if you want to report for the last month, you would specify 30. • date=At what date you want to start your query. The data returned will include all records that are equal or older than the date specified. When used with the period parameter, the data returned will include all records that are equal or older than the date specified up to the period (number of days) specified. The date format expected is "yyyy-MM-dd HH:mm:ss" or "yyyy-MM-dd HH:mm:ss Z", the Z (time zone) will be ignored. • partition=The partition name. <p>The save="name" query parameter should be used by a client browser to allow the data to be saved by the browser to a file. A default "name" is provided.</p>
Request Header	N/A
Request Data	N/A
Response Codes	200
Response Header	Content-Type: application/xml or application/json On success Cookie: name= FileDownloadingProgressCookie, value=Done
Response Data	See Figure 52: ekmMediaStatusList

Table 252: POST aml/system/ekm/reports/audit/mediaStatus/email

Product Support: Scalar i6k, Scalar i3, Scalar i6

Description: Email the list of media encryption status records.

The information will be in an email attachment and the file format will be CSV.

The reportCriteria object supports the same query parameters as Table 251: GET aml/system/ekm/reports/audit/mediaStatus.

Note: This is a licensed feature (EKM for Scalar i6k and EKM and/or SKM for Scalar i3/i6).

URI	aml/system/ekm/reports/audit/mediaStatus/email
Method	POST
User Role Access	Admin, Service
Version	700(i6k), 110(i3/i6)
Parameters	N/A
Request Header	Content-Type:application/xml or application/json
Request Data	See Figure 63: email
Response Codes	200, 403
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 203: WSResultCode

Table 253: GET aml/system/ekm/reports/audit/partitionActivity

Product Support: Scalar i6k, Scalar i3, Scalar i6

Description: Retrieve the list of EKM partition activity resources.

The EKM (Encryption Key Management) Report provides partition encryption method summaries, providing historic information as to when a library partition was enabled or disabled for library managed encryption.

Note: This is a licensed feature (EKM for Scalar i6k and EKM and/or SKM for Scalar i3/i6).

URI	aml/system/ekm/reports/audit/partitionActivity
Method	GET
User Role Access	i6k - Admin, Service, User i3/i6 – Admin, Service
Version	700(i6k), 110(i3/i6)

URI	<i>aml/system/ekm/reports/audit/partitionActivity</i>
Parameters	<p>Optional query parameter is save, with the following valid values:</p> <ul style="list-style-type: none"> • save="name" where name is a file name to use to save the partition activity information to. The file format will be CSV. • start=0-n • length=1-n or -1 for all records • period=the last number of days to include in the report. So if you want to report for the last month, you would specify 30. • partition=The partition name <p>The save="name" query parameter should be used by a client browser to allow the data to be saved by the browser to a file. A default "name" is provided.</p>
Request Header	N/A
Request Data	N/A
Response Codes	200
Response Header	<p>Content-Type: application/xml or application/json On success Cookie: name= FileDownloadingProgressCookie, value=Done</p>
Response Data	See Figure 54: ekmPartitionActivityList

Table 254: POST *aml/system/ekm/reports/audit/partitionActivity/email*

Product Support: Scalar i6k, Scalar i3, Scalar i6

Description: Email the list of partition encryption activity records.

The information will be in an email attachment and the file format will be CSV.

The reportCriteria object supports the same query parameters as Table 253: GET *aml/system/ekm/reports/audit/partitionActivity*.

Note: This is a licensed feature ((EKM for Scalar i6k and EKM and/or SKM for Scalar i3/i6).

URI	<i>aml/system/ekm/reports/audit/partitionActivity/email</i>
Method	POST
User Role Access	Admin, Service
Version	700(i6k), 110(i3/i6)
Parameters	N/A
Request Header	Content-Type:application/xml or application/json
Request Data	See Figure 63: email
Response Codes	200, 403
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 203: WSResultCode

Table 255: GET aml/system/ekm/servers

Product Support: Scalar i6k, Scalar i3, Scalar i6

Description: Retrieve a list of EKM server resources. These resources report all configured EKM server configured on the library. These servers are used to manage the encryption keys that are used to encrypt/decrypt the data read and written to media in the library.

Note: The list of servers returned will be in the sequence order that was used to configure the servers.

URI	aml/system/ekm/servers
Method	GET
User Role Access	Admin, Service, User
Version	700(i6k), 110(i3/i6)
Parameters	N/A
Request Header	N/A
Request Data	N/A
Response Codes	200
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 56: ekmServersList

Table 256: POST aml/system/ekm/servers

Product Support: Scalar i6k, Scalar i3, Scalar i6

Description: Configure new EKM server resources.

Note: The order servers are received in the data object is the sequence order the servers will be added.

The Request data will be a little different depending on the EKM server types requested, see the following examples for details:

QEKM and TKLM

```
<ns2:ekmServers xmlns:ns2="http://automatedMediaLibrary/">
  <ekmServerType>8</ekmServerType>
  <server>
    <hostName>192.168.10.80</hostName>
    <port>3801</port>
  </server>
  <ssl>false</ssl>
</ns2:ekmServers>
```

The ekmServerType must be 8 for QEKM and 32 for TKLM. You must provide at least one server and a maximum of two servers can be configure. If you want to turn on Transport Layer Security (TLS) between the library and the server, set ssl to true.

SKM

```
<ns2:ekmServers xmlns:ns2="http://automatedMediaLibrary/">
  <ekmServerType>16</ekmServerType>
```

```

<server>
  <hostName>192.168.20.100</hostName>
</server>
<server>
  <hostName>192.168.20.101</hostName>
</server>
</ns2:ekmServers>

```

The ekmServerType must be set to 16. You are required to configure two servers. No port number is required since it is hard coded to 6000.

KMIP

```

<ns2:ekmServers xmlns:ns2="http://automatedMediaLibrary/">
  <ekmServerType>4</ekmServerType>
  <server>
    <hostName>10.20.169.146</hostName>
    <port>5696</port>
  </server>
  <server>
    <hostName>10.20.169.147</hostName>
    <port>5696</port>
  </server>
</ns2:ekmServers>

```

The ekmServerType must be set to 4. You must have at least two servers but no more than 10 configured.

You cannot configure a server type if it is already configured. Each server requested must be unique.

The ekmServers.ekmPathDiagnosticsInterval element determines if the path diagnostics test will be run and at what interval. The options are 0-60 minutes, where 0 means do not run these tests.

Note: This is a licensed feature (EKM for Scalar i6k and EKM and/or SKM for Scalar i3/i6).

URI	aml/system/ekm/servers
Method	POST
User Role Access	Admin, Service
Version	700(i6k), 110(i3/i6)
Parameters	N/A
Request Header	Content-Type:application/xml or application/json
Request Data	See Figure 57: ekmServers
Response Codes	201, 403, 404
Response Header	Content-Type:application/xml or application/json Location: aml/system/ekm/servers
Response Data	See Figure 203: WSResultCode

Table 257: GET aml/system/ekm/servers/{type}**Product Support:** Scalar i6k, Scalar i3, Scalar i6

Description: Retrieve the EKM servers with the type given by URI path template “type”. The type must be the server type to retrieve, see Figure 57: ekmServers, specifically the ekmServerType field.

<i>URI</i>	<i>aml/system/ekm/servers/{type}</i>
Method	GET
User Role Access	Admin, Service, User
Version	700(i6k), 110(i3/i6)
Parameters	N/A
Request Header	N/A
Request Data	N/A
Response Codes	200, 404
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 57: ekmServers

Table 258: PUT aml/system/ekm/servers/{type}**Product Support:** Scalar i6k, Scalar i3, Scalar i6

Description: Update the EKM servers with the type given by URI path template “type”. The type must be the server type you want to update (see Figure 57: ekmServers, the ekmServerType field).

All servers must be supplied in the request data, as this interface reconfigures the EKM servers for a given server type.

Note: The order servers are received in the data object is the sequence order the servers will be added.

Note: This is a licensed feature (EKM for Scalar i6k and EKM and/or SKM for Scalar i3/i6).

<i>URI</i>	<i>aml/system/ekm/servers/{type}</i>
Method	PUT
User Role Access	Admin, Service
Version	700(i6k), 110(i3/i6)
Parameters	N/A
Request Header	Content-Type:application/xml or application/json
Request Data	See Figure 57: ekmServers
Response Codes	200, 403, 404
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 57: ekmServers

Table 259: DELETE aml/system/ekm/servers/{type}

Product Support: Scalar i6k, Scalar i3, Scalar i6

Description: Delete the EKM servers with the type given by URI path template “type”. The type must be the server type you want to delete, see Figure 57: ekmServers, the ekmServerType field.

Note: You cannot delete a server type if it is currently being used by a partition.

If you delete the servers then any media that was written using keys from the servers, can no longer be read.

<i>URI</i>	<i>aml/system/ekm/servers/{type}</i>
Method	DELETE
User Role Access	Admin, Service
Version	700(i6k), 110(i3/i6)
Parameters	N/A
Request Header	N/A
Request Data	N/A
Response Codes	200, 403, 404
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 203: WSResultCode

Table 260: POST aml/system/ekm/servers/{type}/test

Product Support: Scalar i6k, Scalar i3, Scalar i6

Description: Test the EKM servers with the type given by URI path template “type”.

Note: This is a licensed feature ((EKM for Scalar i6k and EKM and/or SKM for Scalar i3/i6).

<i>URI</i>	<i>aml/system/ekm/servers/{type}/test</i>
Method	POST
User Role Access	Admin, Service
Version	700(i6k), 110(i3/i6)
Parameters	N/A
Request Header	N/A
Request Data	N/A
Response Codes	200, 403, 404
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 58: ekmServerTestResultList

Table 261: GET aml/system/emmc

Product Support: Scalar i3, Scalar i6

Description: Retrieve the current eMMC wear level status.

URI	<i>aml/system/emmc</i>
Method	GET
User Role Access	Admin, Service, User
Version	110(i3/i6)
Parameters	N/A
Request Header	N/A
Request Data	N/A
Response Codes	200
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 67: emmc

Table 262: GET *aml/system/file*

Product Support: Scalar i6k

Description: Retrieve a file from the library. The i6k only allows access to the '/var/log' and '/tmp' directories.

URI	<i>aml/system/file</i>
Method	GET
User Role Access	Admin, Service
Version	735(i6k)
Parameters	<p>Query parameters are name and type with the following valid values:</p> <ul style="list-style-type: none"> • name=The name of the file you want to retrieve. You must specify the full path of the file you want to retrieve • type="binary" or "text" <p>Note: You must specify the 'name' and 'type' query parameters.</p>
Request Header	N/A
Request Data	N/A
Response Codes	200
Response Header	Content-Type: text/plain or application/octet-stream
Response Data	The requested file

Table 263: GET *aml/system/help*

Product Support: Scalar i3, Scalar i6

Description: Retrieve the online help resource. This resource provides information about the online help used by the Web GUI.

URI	<i>aml/system/help</i>
Method	GET
User Role Access	Admin, Service, User
Version	110(i3/i6)

URI	<i>aml/system/help</i>
Parameters	N/A
Request Header	N/A
Request Data	N/A
Response Codes	200
Response Header	Content-Type: application/xml or application/json
Response Data	See Figure 146: onlineHelp

Table 264: POST *aml/system/help*

Product Support: Scalar i3, Scalar i6

Description: Upload and install a new help distribution onto the library. The help bundle can be found on the Quantum web site. The multipart form data key is 'file' and the value is the file (help distribution) to be uploaded.

URI	<i>aml/system/help</i>
Method	POST
User Role Access	Admin, Service
Version	110(i3/i6)
Parameters	N/A
Request Header	Content-Type multipart/formdata
Request Data	Online Help distribution file
Response Codes	200
Response Header	Content-Type: application/xml or application/json
Response Data	See Figure 203: WSResultCode

Table 265: DELETE *aml/system/help*

Product Support: Scalar i3, Scalar i6

Description: Delete the online help that's currently installed on the library. The Web GUI will now need to use the remote help provided on the Quantum web site.

URI	<i>aml/system/help</i>
Method	DELETE
User Role Access	Admin, Service
Version	110(i3/i6)
Parameters	N/A
Request Header	N/A
Request Data	N/A
Response Codes	200
Response Header	Content-Type: application/xml or application/json
Response Data	See Figure 203: WSResultCode

Table 266: GET aml/system/help/mode

Product Support: Scalar i3, Scalar i6

Description: The interface is used to determine if the Web GUI is to use local (installed on the library) or remote (Quantum web site) help.

<i>URI</i>	<i>aml/system/help/mode</i>
Method	GET
User Role Access	Admin, Service, User
Version	110(i3/i6)
Parameters	N/A
Request Header	N/A
Request Data	N/A
Response Codes	200
Response Header	Content-Type: text/plain
Response Data	1(local) or 2(remote)

Table 267: PUT aml/system/help/mode

Product Support: Scalar i3, Scalar i6

Description: Update the Web GUI's help mode. The help mode determines if the Web GUI will use the locally installed help, or the remote help provided on the Quantum web site.

<i>URI</i>	<i>aml/system/help/mode</i>
Method	PUT
User Role Access	Admin, Service
Version	110(i3/i6)
Parameters	N/A
Request Header	Content-Type: text/plain
Request Data	1(local) or 2(remote)
Response Codes	200
Response Header	Content-Type: application/xml or application/json
Response Data	See Figure 146: onlineHelp

Table 268: GET aml/system/licenses

Product Support: Scalar i6k, Scalar i3, Scalar i6

Description: Retrieve all license resources. This will report all license features supported by the library, including features that have been installed and those that have not been installed.

<i>URI</i>	<i>aml/system/licenses</i>
Method	GET
User Role Access	Admin, Service, User
Version	700(i6k), 110(i3/i6)
Parameters	N/A

URI	aml/system/licenses
Request Header	N/A
Request Data	N/A
Response Codes	200
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 117: licenseList

Table 269: POST aml/system/licenses

Product Support: Scalar i6k, Scalar i3, Scalar i6

Description: Add a new licensable feature to the library. The object reported in the request data below should have a valid license key in the “feature” element of the “license” object.

URI	aml/system/licenses
Method	POST
User Role Access	Admin, Service
Version	700(i6k), 110(i3/i6)
Parameters	N/A
Request Header	Content-Type:application/xml or application/json
Request Data	See Figure 118: license
Response Codes	201, 403
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 117: licenseList

Table 270: GET aml/system/network

Product Support: Scalar i6k, Scalar i3, Scalar i6

Description: Retrieve the network resource information.

URI	aml/system/network
Method	GET
User Role Access	Admin, Service, User
Version	700(i6k), 110(i3/i6)
Parameters	N/A
Request Header	N/A
Request Data	N/A
Response Codes	200
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 139: network

Table 271: GET aml/system/network/access/certificate

Product Support: Scalar i6k, Scalar i3, Scalar i6

Description: Retrieve the Web Server communication certificate installed on the library.

<i>URI</i>	<i>aml/system/network/access/certificate</i>
Method	GET
User Role Access	Admin, Service, User
Version	700(i6k), 110(i3/i6)
Parameters	N/A
Request Header	N/A
Request Data	N/A
Response Codes	200
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 17: communicationCertificate

Table 272: POST aml/system/network/access/certificate

Product Support: Scalar i6k, Scalar i3, Scalar i6

Description: Upload the signed certificate that was generated using Table 275: POST aml/system/network/access/certificate/csr.

The multipart form data key is 'file' and the value is the file to be uploaded.

After uploading the signed certificate, you will need to activate it (the library web server will start using it). See Table 274: POST aml/system/network/access/certificate/activate.

<i>URI</i>	<i>aml/system/network/access/certificate</i>
Method	POST
User Role Access	Admin, Service
Version	700(i6k), 110(i3/i6)
Parameters	N/A
Request Header	Content-Type multipart/formdata
Request Data	N/A
Response Codes	200, 403
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 203: WSResultCode

Table 273: GET aml/system/network/access/certificate/activate

Product Support: Scalar i6k, Scalar i3, Scalar i6

Description: Determine if an uploaded, signed certificate on the library has been activated.

<i>URI</i>	<i>aml/system/network/access/certificate/activate</i>
Method	GET
User Role Access	Admin, Service, User

URI	<i>aml/system/network/access/certificate/activate</i>
Version	700(i6k), 110(i3/i6)
Parameters	N/A
Request Header	N/A
Request Data	N/A
Response Codes	200
Response Header	Content-Type:test/plain or application/json
Response Data	“true” or “false”

Table 274: POST *aml/system/network/access/certificate/activate*

Product Support: Scalar i6k, Scalar i3, Scalar i6

Description: Activate the signed certificate uploaded to the library using Table 272: POST *aml/system/network/access/certificate*. The Web Server will start to use this certificate to authenticate communications with the Web Browser client.

Note: For i6k libraries, this interface will not respond if the request is successful, because the Web Server proxy on the library will be restarted. Subsequent requests should work without having to reestablish a new connection to the library.

URI	<i>aml/system/network/access/certificate/activate</i>
Method	POST
User Role Access	Admin, Service
Version	700(i6k), 110(i3/i6)
Parameters	N/A
Request Header	N/A
Request Data	N/A
Response Codes	403, 404 (updated in release 750, if successful this interface will not respond)
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 203: WSResultCode if there is a failure. If successful there is no response.

Table 275: POST *aml/system/network/access/certificate/csr*

Product Support: Scalar i6k, Scalar i3, Scalar i6

Description: Generate a Certificate Signing Request (CSR) to be signed by a Certificate Authority. Once signed the CA Certificate can then be uploaded to the library.

The communicationCertificate fields that are required for generating the CSR are:

keySize, digestAlgorithm and subject (certificateInformation object). The required certificateInformation fields are: commonName.

The maximum allowed characters for countryCode is 2. All other fields have a maximum length of 128 characters.

URI	<i>aml/system/network/access/certificate/csr</i>
Method	POST
User Role Access	Admin, Service

URI	<i>aml/system/network/access/certificate/csr</i>
Version	700(i6k), 110(i3/i6)
Parameters	Optional query parameters are save with the following valid values: save=name where name is a file name to be used to save the CSR to. The save="name" query parameter should be used by a client browser to allow the data to be saved by the browser to a file. A default name is provided.
Request Header	Content-Type: application/xml or application/json
Request Data	See Figure 17: communicationCertificate
Response Codes	200, 403
Response Header	Content-Type:application/octet-stream On success and save= parameter is used Cookie: name=FileDownloadingProgressCookie, value=Done
Response Data	Byte Stream

Table 276: GET *aml/system/network/access/certificate/isSigned*

Product Support: Scalar i6k, Scalar i3, Scalar i6

Description: Determine if the certificated installed on the library, for web server communications, was signed by a certificate authority.

URI	<i>aml/system/network/access/certificate/isSigned</i>
Method	GET
User Role Access	Admin, Service, User
Version	700(i6k), 110(i3/i6)
Parameters	N/A
Request Header	N/A
Request Data	N/A
Response Codes	200
Response Header	Content-Type:text/plain or application/json
Response Data	"true" or "false"

Table 277: GET *aml/system/network/interfaces*

Product Support: Scalar i6k, Scalar i3, Scalar i6

Description: Retrieve the network interfaces resources, eth0 and eth2.

URI	<i>aml/system/network/interfaces</i>
Method	GET
User Role Access	Admin, Service, User
Version	700(i6k), 110(i3/i6)
Parameters	N/A
Request Header	N/A
Request Data	N/A

URI	<i>aml/system/network/interfaces</i>
Response Codes	200
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 143: netInterfaceList

Table 278: GET *aml/system/network/interface/{name}*

Product Support: Scalar i6k, Scalar i3, Scalar i6

Description: Request the network interface whose name is given by URI path template “name”. In the data below, name was eth0.

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:netInterface xmlns:ns2="http://automatedMediaLibrary/">
  <name>eth0</name>
  <macAddress>00:30:8C:06:78:B5</macAddress>
  <location>N/A</location>
  <duplexMode>Full</duplexMode>
  <autoNegotiate>>false</autoNegotiate>
  <speed>1</speed>
  <linkStatus>1</linkStatus>
</ns2:netInterface>
```

URI	<i>aml/system/network/interface/{name}</i>
Method	GET
User Role Access	Admin, Service, User
Version	700(i6k), 110(i3/i6)
Parameters	N/A
Request Header	N/A
Request Data	N/A
Response Codes	200, 404
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 144: netInterface

Table 279: PUT *aml/system/network/interface/{name}*

Product Support: Scalar i6k, Scalar i3, Scalar i6

Description: Update the network interface whose name is given by URI path template “name”. The client request data below indicates that the interface speed should be changed to 1 (10Mb/s).

To revert to auto negotiation set autoNegotiate element to true and remove the speed element. To set a specific speed (1,2 or 3) the autoNegotiate element must be set to false.

Note: The i6k only supports setting the speed or auto negotiate elements.

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:netInterface xmlns:ns2="http://automatedMediaLibrary/">
  <name>eth0</name>
```

```

    <autoNegotiate>false</autoNegotiate>
    <speed>1</speed>
</ns2:netInterface>

```

URI	<i>aml/system/network/interface/{name}</i>
Method	PUT
User Role Access	Admin, Service
Version	700(i6k), 110(i3/i6)
Parameters	N/A
Request Header	Content-Type:application/xml or application/json
Request Data	See Figure 144: netInterface
Response Codes	200, 403, 404
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 144: netInterface

Table 280: GET *aml/system/network/configurations*

Product Support: Scalar i6k, Scalar i3, Scalar i6

Description: Retrieve the network configurations for all the configured interfaces, eth0 and eth2, on the library.

URI	<i>aml/system/network/configurations</i>
Method	GET
User Role Access	Admin, Service, User
Version	700(i6k), 110(i3/i6)
Parameters	N/A
Request Header	N/A
Request Data	N/A
Response Codes	200
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 141: netConfigurationList

Table 281: GET *aml/system/network/configuration/{name}*

Product Support: Scalar i6k, Scalar i3, Scalar i6

Description: Retrieve the network parameters for the interface given by URI path template “name”. The XML Response Data below is for the following request:

<http://LibraryPortname/aml/system/network/configuration/eth0>

```

<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:netConfigurationList xmlns:ns2="http://automatedMediaLibrary/">
  <netConfiguration>
    <name>eth0</name>
    <location>N/A</location>
  </netConfiguration>
</ns2:netConfigurationList>

```



```

<version>1</version>
<hostName>dvt8-jb</hostName>
<domainName>dvt8-jb</domainName>
<type>1</type>
<netMask>64</netMask>
<netGateway>10.20.168.1</netGateway>
<ipAddress>10.20.171.17</ipAddress>
</netConfiguration>
<netConfiguration>
  <name>eth0</name>
  <location>N/A</location>
  <version>2</version>
  <hostName>dvt8-jb</hostName>
  <domainName>dvt8-jb</domainName>
  <type>3</type>
  <netGateway>0:0:0:0:0:0:0:0</netGateway>
  <ipAddress>2001:db8:ffff:1:230:8cff:fe06:78b5/64</ipAddress>
  <ipAddress>fe80::230:8cff:fe06:78b5/64</ipAddress>
</netConfiguration>
</ns2:netConfigurationList>

```

URI	<i>aml/system/network/configuration/{name}</i>
Method	GET
User Role Access	Admin, Service, User
Version	700(i6k), 110(i3/i6)
Parameters	N/A
Request Header	N/A
Request Data	N/A
Response Codes	200, 404
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 141: netConfigurationList

Table 282: PUT *aml/system/network/configuration/{name}/{version}*

Product Support: Scalar i6k, Scalar i3, Scalar i6

Description: Update the network parameter whose name and version is given by the URI path template “name” and “version”.

The “version” template values are as follows: 1 (IPv4) and 2 (IPv6).

See the IPv4 examples below for more information:

Example 1: Update the hostname to “TestLibrary” using the IPv4 parameters version. The name, version (1-IPv4) and hostName elements must be specified.

```

<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:netConfiguration xmlns:ns2="http://automatedMediaLibrary/">
  <name>eth0</name>
  <version>1</version>
  <hostName>TestLibrary</hostName>
</ns2:netConfiguration>

```

Example 2: Set DHCP for IPv4 on eth0. After sending this request, your session will no longer be valid and you will be disconnected from the library.

```
<ns2:netConfiguration xmlns:ns2="http://automatedMediaLibrary/">
  <name>eth0</name>
  <version>1</version>
  <type>2</type>
</ns2:netConfiguration>
```

Example 3: Set a new Static IPv4 address on eth0. After sending this request, your session will no longer be valid and you will be disconnected from the library.

```
<ns2:netConfiguration xmlns:ns2="http://automatedMediaLibrary/">
  <name>eth0</name>
  <version>1</version>
  <hostName>dvt8-jb</hostName>
  <type>1</type>
  <ipAddress>10.20.171.17</ipAddress>
</ns2:netConfiguration>
```

See the IPv6 examples below for more information:

Example 4: Set a new Static IPv6 address on interface eth0 where DHCP6 is disabled. If the current IPv6 or DHCP6 address was used to connect to the library, you will be disconnected from the library.

Note: When configuring a static IPv6 address on interface eth2, you do not need to supply a netGateway element. The gateway is not required.

```
<ns2:netConfiguration xmlns:ns2="http://automatedMediaLibrary/">
  <name>eth0</name>
  <version>2</version>
  <type>1</type>
  <netMask>64</netMask>
  <netGateway>fd80::</netGateway>
  <ipAddress>fd80::ffaa:abcd</ipAddress>
</ns2:netConfiguration>
```

Example 5: Set DHCP6 on eth2, with no static address, type element = 3.

```
<ns2:netConfiguration xmlns:ns2="http://automatedMediaLibrary/">
  <name>eth2</name>
  <version>2</version>
  <type>3</type>
</ns2:netConfiguration>
```

Example 6: Configure both Static address and DHCP6 for interface eth0. Note the type element is 4 (Static and DHCP).

```
<ns2:netConfiguration xmlns:ns2="http://automatedMediaLibrary/">
  <name>eth0</name>
  <version>2</version>
```

```

<type>4</type>
<netMask>64</netMask>
<netGateway>20FF::</netGateway>
<ipAddress>20FF::ffaa:abcd</ipAddress>
</ns2:netConfiguration>

```

Example 7: Configure new host name for interface eth2 using IPv6. When you configure a new hostname you must supply the current configuration, static and or DHCP6 setting. Otherwise they will get removed.

```

<ns2:netConfiguration xmlns:ns2="http://automatedMediaLibrary/">
  <name>eth2</name>
  <version>2</version>
  <hostName>TestLibrary-eth2</hostName>
  <type>4</type>
  <netMask>64</netMask>
  <netGateway>20FF::</netGateway>
  <ipAddress>20FF::ffaa:abcd</ipAddress>
</ns2:netConfiguration>

```

URI	<i>aml/system/network/configuration/{name}/{version}</i>
Method	PUT
User Role Access	Admin, Service
Version	700(i6k), 110(i3/i6)
Parameters	N/A
Request Header	Content-Type:application/xml or application/json
Request Data	Figure 142: netConfiguration
Response Codes	200, 403, 404
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 142: netConfiguration

Table 283: GET *aml/system/network/dns*

Product Support: Scalar i6k, Scalar i3, Scalar i6

Description: Retrieve the Domain Name Servers (DNS) resource. This resource contains the IP address of the Domain Name Server configured on the library. These servers are used to resolve domain names to IP addresses.

URI	<i>aml/system/network/dns</i>
Method	GET
User Role Access	Admin, Service, User
Version	700(i6k), 110(i3/i6)
Parameters	N/A
Request Header	N/A
Request Data	N/A
Response Codes	200
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 26: DNS

Table 284: PUT aml/system/network/dns

Product Support: Scalar i6k, Scalar i3, Scalar i6

Description: Update the current DNS IP address configuration. To disable DNS just pass down an empty DNS object.

<i>URI</i>	<i>aml/system/network/dns</i>
Method	PUT
User Role Access	Admin, Service
Version	700(i6k), 110(i3/i6)
Parameters	N/A
Request Header	Content-Type:application/xml or application/json
Request Data	See Figure 26: DNS
Response Codes	200, 403
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 26: DNS

Table 285: GET aml/system/network/emailServer

Product Support: Scalar i6k, Scalar i3, Scalar i6

Description: Retrieve the email server configuration resource.

<i>URI</i>	<i>aml/system/network/emailServer</i>
Method	GET
User Role Access	Admin, Service, User
Version	700(i6k), 110(i3/i6)
Parameters	N/A
Request Header	N/A
Request Data	N/A
Response Codes	200
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 64: emailServer

Table 286: PUT aml/system/network/emailServer

Product Support: Scalar i6k, Scalar i3, Scalar i6

Description: Update the current email server configuration.

Example 1: Change the IP address of the email server. The required elements are server and senderEmailAddress. If authorization is turned on, the authorize element is set to true the accountName and accountPassword are required. Otherwise authorization will be turned off as in the following example:

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:emailServer xmlns:ns2="http://automatedMediaLibrary/">
  <server>10.20.169.9</server>
  <senderEmailAddress>john.doe@company.com</senderEmailAddress>
</ns2:emailServer>
```

Example 2: Disable the email server. This will prevent the library from sending email notifications and other email features. When the email server is disabled the email server information that was persisted on the library will be deleted.

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:emailServer xmlns:ns2="http://automatedMediaLibrary/">
</ns2:emailServer>
```

URI	<i>aml/system/network/emailServer</i>
Method	PUT
User Role Access	Admin, Service
Version	700(i6k), 110(i3/i6)
Parameters	N/A
Request Header	Content-Type:application/xml or application/json
Request Data	See Figure 64: emailServer
Response Codes	200, 403
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 64: emailServer

Table 287: GET *aml/system/network/internal*

Product Support: Scalar i6k, Scalar i3, Scalar i6

Description: Retrieve the internal network resource. This resource provides information on the currently configured network address of the library's internal network. It also provides the network address options that are available if a conflict exists between the internal and external network to which the library is connected.

URI	<i>aml/system/network/internal</i>
Method	GET
User Role Access	Admin, Service, User
Version	720(i6k), 110(i3/i6)
Parameters	N/A
Request Header	N/A
Request Data	N/A
Response Codes	200
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 104: internalNetwork

Table 288: PUT aml/system/network/internal

Product Support: Scalar i6k, Scalar i3, Scalar i6

Description: Update the internal network resource. This should only be used if there is a conflict between the library's internal network and the network the library is connected to. The current element of the internalNetwork object is used to change the internal network. You must use one of the network address options provided by the GET method on this interface.

```
<?xml version="1.0" encoding="UTF-8"?>
<ns2:internalNetwork xmlns:ns2="http://automatedMediaLibrary/">
  <current>10.247.240.0</current>
</ns2:internalNetwork>
```

<i>URI</i>	<i>aml/system/network/internal</i>
Method	PUT
User Role Access	Admin, Service
Version	720(i6k), 110(i3/i6)
Parameters	N/A
Request Header	Content-Type:application/xml or application/json
Request Data	See Figure 104: internalNetwork
Response Codes	200, 403
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 104: internalNetwork

Table 289: GET aml/system/network/ipv6/mode

Product Support: Scalar i6k, Scalar i3, Scalar i6

Description: Retrieve the IPv6 current mode (enabled/disabled).

A single string value will be returned and the possible values are:

1 (enabled) or 2 (disabled)

Note: This interface has been deprecated, IPv6 is always enabled.

<i>URI</i>	<i>aml/system/network/ipv6/mode</i>
Method	GET
User Role Access	Admin, Service, User
Version	700(i6k)
Parameters	N/A
Request Header	N/A
Request Data	N/A
Response Codes	200
Response Header	Content-Type:text/plain or application/json
Response Data	Will always return "1", enabled.

Table 290: PUT aml/system/network/ipv6/mode

Product Support: Scalar i6k

Description: Change IPv6 mode, 1 (enable) or 2 (disable).

Note: This interface has been deprecated, you can no longer disable IPv6.

URI	aml/system/network/ipv6/mode
Method	PUT
User Role Access	Admin, Service, User
Version	700(i6k)
Parameters	N/A
Request Header	Content-Type:text/plain or application/json
Request Data	1 or 2
Response Codes	410
Response Header	Content-Type:text/plain or application/json
Response Data	See Figure 203: WSResultCode

Table 291: POST aml/system/network/emailServer/test

Product Support: Scalar i6k, Scalar i3, Scalar i6

Description: Test if the email server configuration is valid. The required elements are shown below.

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:emailServer xmlns:ns2="http://automatedMediaLibrary/">
  <server>10.20.169.9</server>
  <senderEmailAddress>admin@quantum.com</senderEmailAddress>
  <testEmailAddress>john.doe@company.com</testEmailAddress>
</ns2:emailServer>
```

URI	aml/system/network/emailServer/test
Method	POST
User Role Access	Admin, Service
Version	700(i6k), 110(i3/i6)
Parameters	N/A
Request Header	Content-Type:application/xml or application/json
Request Data	See Figure 64: emailServer
Response Codes	200, 403
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 203: WSResultCode

Table 292: GET aml/system/network/snmp/MIBs

Product Support: Scalar i6k, Scalar i3, Scalar i6

Description: Retrieve the library's SNMP MIBs file.

URI	<i>aml/system/network/snmp/MIBs</i>
Method	GET
User Role Access	Admin, Service, User
Version	700(i6k), 110(i3/i6)
Parameters	Optional query parameter is save, with the following valid values: <ul style="list-style-type: none"> • save="name" where name is a file name to use to save the MIB file to. The file format will be ZIP. The save="name" query parameter should be used by a client browser to allow the data to be saved by the browser to a file. A default "name" is provided.
Request Header	N/A
Request Data	N/A
Response Codes	200
Response Header	Content-Type: application/octet-stream On success and when save= parameter is used Cookie: name=FileDownloadingProgressCookie, value=Done
Response Data	Octet stream (ZIP format)

Table 293: POST *aml/system/network/snmp/MIBs/email*

Product Support: Scalar i6k, Scalar i3, Scalar i6

Description: Email the library's SNMP MIBs file.

URI	<i>aml/system/network/snmp/MIBs/email</i>
Method	POST
User Role Access	Admin, Service
Version	700(i6k), 110(i3/i6)
Parameters	N/A
Request Header	Content-Type: application/xml, application/json
Request Data	See Figure 63: email
Response Codes	200, 403
Response Header	Content-Type: application/xml, application/json
Response Data	See Figure 203: WSResultCode

Table 294: GET *aml/system/notifications/contact*

Product Support: Scalar i6k, Scalar i3, Scalar i6

Description: Retrieve the library contact information resource.

URI	<i>aml/system/notifications/contact</i>
Method	GET
User Role Access	Admin, Service, User
Version	700(i6k), 110(i3/i6)

URI	<i>aml/system/notifications/contact</i>
Parameters	N/A
Request Header	N/A
Request Data	N/A
Response Codes	200
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 20: contactInformation

Table 295: PUT *aml/system/notifications/contact*

Product Support: Scalar i6k, Scalar i3, Scalar i6

Description: Update the contact information resource. If any element of the contactInformation object is not included the resulting value will be an empty string.

URI	<i>aml/system/notifications/contact</i>
Method	PUT
User Role Access	Admin, Service
Version	700(i6k), 110(i3/i6)
Parameters	N/A
Request Header	Content-Type:application/xml or application/json
Request Data	See Figure 20: contactInformation
Response Codes	200, 403
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 20: contactInformation

Table 296: GET *aml/system/notifications/emailRecipients*

Product Support: Scalar i6k, Scalar i3, Scalar i6

Description: Retrieve a list of emailRecipients resources. This is a list of e-mail addresses that are stored on the library.

URI	<i>aml/system/notifications/emailRecipients</i>
Method	GET
User Role Access	Admin, Service, User
Version	700(i6k), 110(i3/i6)
Parameters	N/A
Request Header	N/A
Request Data	N/A
Response Codes	200
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 65: emailRecipientList

Table 297: POST aml/system/notifications/emailRecipients

Product Support: Scalar i6k, Scalar i3, Scalar i6

Description: Create a new emailRecipient resource. The required element is address.

URI	aml/system/notifications/emailRecipients
Method	POST
User Role Access	Admin, Service
Version	700(i6k), 110(i3/i6)
Parameters	N/A
Request Header	Content-Type:application/xml or application/json Location: aml/system/notifications/emailRecipients/email address
Request Data	See Figure 66: emailRecipient
Response Codes	200, 403
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 203: WSResultCode

Table 298: GET aml/system/notifications/emailRecipient/{id}

Product Support: Scalar i6k, Scalar i3, Scalar i6

Description: Retrieve the emailRecipient resource whose id is given by the URI path template “id”. The id can be either the object id or address.

URI	aml/system/notifications/emailRecipient/{id}
Method	GET
User Role Access	Admin, Service, User
Version	700(i6k), 110(i3/i6)
Parameters	N/A
Request Header	N/A
Request Data	N/A
Response Codes	200, 404
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 66: emailRecipient

Table 299: DELETE aml/system/notifications/emailRecipient/{id}

Product Support: Scalar i6k, Scalar i3, Scalar i6

Description: Delete the emailRecipient resource whose id is given by the URI path template “id”. The id can be either the object id or address.

URI	aml/system/notifications/emailRecipient/{id}
Method	DELETE
User Role Access	Admin, Service

URI	<i>aml/system/notifications/emailRecipient/{id}</i>
Version	700(i6k), 110(i3/i6)
Parameters	N/A
Request Header	N/A
Request Data	N/A
Response Codes	200, 403, 404
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 203: WSResultCode

Table 300: GET *aml/system/notifications/heartbeats*

Product Support: Scalar i6k

Description: Retrieve a list of heartbeatNotification resources.

Note: The following data is contained in the notification email.

Library Heartbeat
Library Name: Sales
Library IPv4 Address: 10.10.0.100
Library Serial Number: 2U31000001
Heartbeat Interval: 60 minutes
RAS Status:
Connectivity : Good
Control : Failed
Media : Good
Drives : Failed
Power : Good
Robotics : Good
Library State: Online/Ready
Date: Fri Nov 07 20:36:08 GMT 2014

URI	<i>aml/system/notifications/heartbeats</i>
Method	GET
User Role Access	Admin, Service, User
Version	700(i6k)
Parameters	N/A
Request Header	N/A
Request Data	N/A
Response Codes	200
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 96: heartbeatNotificationList

Table 301: POST aml/system/notifications/heartbeats

Product Support: Scalar i6k

Description: Create a new heartbeatNotification resource. Required fields are: interval and emailAddress.

URI	aml/system/notifications/heartbeats
Method	POST
User Role Access	Admin, Service
Version	700(i6k)
Parameters	N/A
Request Header	Content-Type:application/xml or application/json
Request Data	See Figure 97: heartbeatNotification
Response Codes	201, 403
Response Header	Content-Type:application/xml or application/json Location: aml/system/notifications/heartbeat/{id}
Response Data	See Figure 203: WSResultCode

Table 302: GET aml/system/notifications/heartbeat/{id}

Product Support: Scalar i6k

Description: Retrieve the heartbeatNotification resource whose id is given by the URI path template “id”.

URI	aml/system/notifications/heartbeat/{id}
Method	GET
User Role Access	Admin, Service, User
Version	700(i6k)
Parameters	N/A
Request Header	N/A
Request Data	N/A
Response Codes	200
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 97: heartbeatNotification

Table 303: PUT aml/system/notifications/heartbeat/{id}

Product Support: Scalar i6k

Description: Modify the heartbeatNotification resource whose id is given by the URI path template “id”.

URI	aml/system/notifications/heartbeat/{id}
Method	PUT
User Role Access	Admin, Service

URI	<i>aml/system/notifications/heartbeat/{id}</i>
Version	700(i6k)
Parameters	N/A
Request Header	Content-Type:application/xml or application/json
Request Data	See Figure 97: heartbeatNotification
Response Codes	200, 403, 404
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 97: heartbeatNotification

Table 304: DELETE *aml/system/notifications/heartbeat/{id}*

Product Support: Scalar i6k

Description: Delete the heartbeatNotification whose id is given by the URI path template “id”.

URI	<i>aml/system/notifications/heartbeat/{id}</i>
Method	DELETE
User Role Access	Admin, Service
Version	700(i6k)
Parameters	N/A
Request Header	N/A
Request Data	N/A
Response Codes	200, 403, 404
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 203: WSResultCode

Table 305: GET *aml/system/notifications/mediaSecurity*

Product Support: Scalar i6k, Scalar i3, Scalar i6

Description: Retrieve the media security policy resource.

URI	<i>aml/system/notifications/mediaSecurity</i>
Method	GET
User Role Access	Admin, Service, User
Version	700(i6k), 110(i3/i6)
Parameters	N/A
Request Header	N/A
Request Data	N/A
Response Codes	200
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 133: mediaSecurityPolicy

Table 306: PUT aml/system/notifications/mediaSecurity

Product Support: Scalar i6k, Scalar i3, Scalar i6

Description: Update the media security policy resource. You can configure the library to automatically notify you via a RAS ticket when media is moved in or out of the library, either intentionally or unintentionally. First, you must choose under which circumstances you wish to be notified, and then you must enable automatic inventory on the library.

Note: This is a licensed feature (Advanced Reporting).

URI	aml/system/notifications/mediaSecurity
Method	PUT
User Role Access	Admin, Service
Version	700(i6k), 110(i3/i6)
Parameters	N/A
Request Header	Content-Type: application/xml or application/json
Request Data	See Figure 133: mediaSecurityPolicy
Response Header	Content-Type: application/xml or application/json
Response Codes	200, 403, 404
Response Data	See Figure 133: mediaSecurityPolicy

Table 307: GET aml/system/notifications/reports

Product Support: Scalar i6k, Scalar i3, Scalar i6

Description: Retrieve a list of reportNotification resources. These report notifications are scheduled to be e-mailed to recipients on a periodic basis.

URI	aml/system/notifications/reports
Method	GET
User Role Access	Admin, Service, User
Version	700(i6k), 110(i3/i6)
Parameters	N/A
Request Header	N/A
Request Data	N/A
Response Codes	200
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 172: reportNotificationList

Table 308: POST aml/system/notifications/reports

Product Support: Scalar i6k, Scalar i3, Scalar i6

Description: Create a new report notification resource. The required reportNotification object elements are:

emailAddress – The e-mail address of the recipient you want this report to be sent to.

reportTemplateName – A valid reportTemplate name, the available templates can be found at the following URI Table 340: GET aml/system/reports/templates.

interval – See Figure 173: reportNotification.

If not specified the enable element will default to false.

Note: This is a licensed feature (Advanced Reporting).

URI	aml/system/notifications/reports
Method	POST
User Role Access	Admin, Service
Version	700(i6k), 110(i3/i6)
Parameters	N/A
Request Header	Content-Type:application/xml or application/json Location: aml/system/notifications/report/{id}
Request Data	See Figure 173: reportNotification
Response Codes	200, 403
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 203: WSResultCode

Table 309: GET aml/system/notifications/report/{id}

Product Support: Scalar i6k, Scalar i3, Scalar i6

Description: Retrieve the reportNotification resource whose id is given by the URI path template “id”.

URI	aml/system/notifications/report/{id}
Method	GET
User Role Access	Admin, Service, User
Version	700(i6k), 110(i3/i6)
Parameters	N/A
Request Header	N/A
Request Data	N/A
Response Codes	200
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 173: reportNotification

Table 310: PUT aml/system/notifications/report/{id}

Product Support: Scalar i6k, Scalar i3, Scalar i6

Description: Modify the reportNotification resource whose id is given by the URI path template “id”.

Note: This request is a licensed feature (Advanced Reporting).

URI	<i>aml/system/notifications/report/{id}</i>
Method	PUT
User Role Access	Admin, Service
Version	700(i6k), 110(i3/i6)
Parameters	N/A
Request Header	Content-Type:application/xml or application/json
Request Data	See Figure 173: reportNotification
Response Codes	200, 403, 404
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 173: reportNotification

Table 311: DELETE *aml/system/notifications/report/{id}*

Product Support: Scalar i6k, Scalar i3, Scalar i6

Description: Delete the reportNotification whose id is given by the URI path template “id”.

URI	<i>aml/system/notifications/report/{id}</i>
Method	DELETE
User Role Access	Admin, Service
Version	700(i6k), 110(i3/i6)
Parameters	N/A
Request Header	N/A
Request Data	N/A
Response Codes	200, 403, 404
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 203: WSResultCode

Table 312: GET *aml/system/notifications/snmpTraps*

Product Support: Scalar i6k, Scalar i3, Scalar i6

Description: Retrieve the list of snmp trap notification resources.

URI	<i>aml/system/notifications/snmpTraps</i>
Method	GET
User Role Access	Admin, Service, User
Version	700(i6k), 110(i3/i6)
Parameters	N/A
Request Header	N/A
Request Data	N/A
Response Codes	200
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 185: trapNotificationList

Table 313: POST aml/system/notifications/snmpTraps

Product Support: Scalar i6k, Scalar i3, Scalar i6

Description: Create a new trapNotification resource. The required fields for i6k, i3 and i6 are host and port.

URI	aml/system/notifications/snmpTraps
Method	POST
User Role Access	Admin, Service
Version	700(i6k), 110(i3/i6)
Parameters	N/A
Request Header	Content-Type:application/xml or application/json
Request Data	See Figure 186: trapNotification
Response Codes	201, 403
Response Header	Content-Type:application/xml or application/json Location: aml/system/notifications/snmpTrap/{id}
Response Data	See Figure 203: WSResultCode

Table 314: POST aml/system/notifications/snmpTraps/test

Product Support: Scalar i3, Scalar i6

Description: Send a trap notification to a specific IP/host. All elements of the trapNotification object are required except for the id element.

URI	aml/system/notifications/snmpTraps/test
Method	POST
User Role Access	Admin, Service
Version	110(i3/i6)
Parameters	N/A
Request Header	Content-Type:application/xml or application/json
Request Data	See Figure 186: trapNotification
Response Codes	200, 403
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 203: WSResultCode

Table 315: GET aml/system/notifications/snmpTrap/{id}

Product Support: Scalar i6k, Scalar i3, Scalar i6

Description: Retrieve the snmp trap notification resource whose id is given by the URI path template "id".

URI	aml/system/notifications/snmpTrap/{id}
Method	GET

URI	aml/system/notifications/snmpTrap/{id}
User Role Access	Admin, Service, User
Version	700(i6k), 110(i3/i6)
Parameters	N/A
Request Header	N/A
Request Data	N/A
Response Codes	200, 404
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 186: trapNotification

Table 316: PUT aml/system/notifications/snmpTrap/{id}

Product Support: Scalar i6k, Scalar i3, Scalar i6

Description: Update the snmp trap notification resource whose id is given by the URI path template “id”.

URI	aml/system/notifications/snmpTrap/{id}
Method	PUT
User Role Access	Admin, Service
Version	700(i6k), 110(i3/i6)
Parameters	N/A
Request Header	Content-Type:application/xml or application/json
Request Data	See Figure 186: trapNotification
Response Codes	200, 403, 404
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 186: trapNotification

Table 317: DELETE aml/system/notifications/snmpTrap/{id}

Product Support: Scalar i6k, Scalar i3, Scalar i6

Description: Delete the snmp trap notification resource whose id is given by the URI path template “id”.

URI	aml/system/notifications/snmpTrap/{id}
Method	DELETE
User Role Access	Admin, Service
Version	700(i6k), 110(i3/i6)
Parameters	N/A
Request Header	N/A
Request Data	N/A
Response Codes	200, 403, 404
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 203: WSResultCode

Table 318: GET aml/system/notifications/tickets

Product Support: Scalar i6k, Scalar i3, Scalar i6

Description: Retrieve a list of RAS notification resources. These RAS notifications are e-mailed to recipients when a RAS ticket is opened. You can also filter tickets depending on the severity of the ticket.

URI	aml/ system/notifications/tickets
Method	GET
User Role Access	Admin, Service, User
Version	700(i6k), 110(i3/i6)
Parameters	N/A
Request Header	N/A
Request Data	N/A
Response Codes	200
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 167: rasNotificationList

Table 319: POST aml/system/notifications/tickets

Product Support: Scalar i6k, Scalar i3, Scalar i6

Description: Create a new RAS notification resource. The required rasNotification object elements are:

emailAddress – e-mail address to receive the notification.

enabled – set to true, otherwise the notification will not be sent.

severity1 ... severity5 – Severities set to true will receive email notifications.

URI	aml/system/notifications/tickets
Method	POST
User Role Access	Admin, Service
Version	700(i6k), 110(i3/i6)
Parameters	N/A
Request Header	Content-Type:application/xml or application/json
Request Data	See Figure 168: rasNotification
Response Codes	201, 403, 404
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 203: WSResultCode

Table 320: GET aml/system/notifications/ticket/{id}

Product Support: Scalar i6k, Scalar i3, Scalar i6

Description: Retrieve the RAS notification resource whose id is given by the URI path template “id”.

URI	<i>aml/system/notifications/ticket/{id}</i>
Method	GET
User Role Access	Admin, Service, User
Version	700(i6k), 110(i3/i6)
Parameters	N/A
Request Header	N/A
Request Data	N/A
Response Codes	200, 404
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 168: rasNotification

Table 321: PUT *aml/system/notifications/ticket/{id}*

Product Support: Scalar i6k, Scalar i3, Scalar i6

Description: Modify the RAS notification resource whose id is given by the URI path template “id”.

URI	<i>aml/system/notifications/ticket/{id}</i>
Method	PUT
User Role Access	Admin, Service
Version	700(i6k), 110(i3/i6)
Parameters	N/A
Request Header	Content-Type:application/xml or application/json
Request Data	See Figure 168: rasNotification
Response Codes	200, 403, 404
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 168: rasNotification

Table 322: DELETE *aml/system/notifications/ticket/{id}*

Product Support: Scalar i6k, Scalar i3, Scalar i6

Description: Delete the RAS notification whose id is given by the URI path template “id”.

URI	<i>aml/system/notifications/ticket/{id}</i>
Method	DELETE
User Role Access	Admin, Service
Version	700(i6k), 110(i3/i6)
Parameters	N/A
Request Header	N/A
Request Data	N/A
Response Codes	200, 403, 404
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 203: WSResultCode

Table 323: POST aml/system/operations/reboot

Product Support: Scalar i6k, Scalar i3, Scalar i6

Description: Reboot the library.

URI	aml/system/operations/reboot
Method	POST
User Role Access	Admin, Service
Version	700(i6k), 110(i3/i6)
Parameters	N/A
Request Header	N/A
Request Data	N/A
Response Codes	200, 403
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 203: WSResultCode

Table 324: POST aml/system/operations/shutdown

Product Support: Scalar i6k, Scalar i3, Scalar i6

Description: Shutdown the library. After the library has been shut down, you will need to physically power the library down by using the power button on the library's Control Module.

URI	aml/system/operations/shutdown
Method	POST
User Role Access	Admin, Service
Version	700(i6k), 110(i3/i6)
Parameters	N/A
Request Header	N/A
Request Data	N/A
Response Codes	200, 403
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 203: WSResultCode

Table 325: GET aml/system/policy/externalApplicationServers

Product Support: Scalar i6k, Scalar i6

Description: Retrieve a list of externalApplicationServers resources. These servers can be used when configuring Extended Data Life Management (EDLM) and Active Vault policies. If StorNext Storage Manager is managing your partition, you can configure a policy to use StorNext with Active Vault and/or EDLM. This feature requires an external application server(s) (StorNext) to be configured.

URI	aml/system/policy/externalApplicationServers
Method	GET
User Role Access	Admin, Service, User

URI	<i>aml/system/policy/externalApplicationServers</i>
Version	700(i6k), 110(i6)
Parameters	N/A
Request Header	N/A
Request Data	N/A
Response Codes	200
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 74: externalApplicationServersList

Table 326: POST *aml/system/policy/externalApplicationServers*

Product Support: Scalar i6k, Scalar i6

Description: Configure a new external application (StorNext) servers. The following externalApplicationServers elements are required:

name: the name value must be unique.

server: at least one server element is required, and both name and port elements of the server are required. The externalApplicationName is required if you are not using the StorNext Web Services interface. It must point to a configured externalApplication plugin, which the library will use to communicate with the external servers.

If you are using the StorNext Web Services interface, you must provide a 'username' and 'password'. The username and password can be found on the StorNext server.

To see what externalApplications are configured use this URI: Table 359: GET *aml/system/software/externalApplications*.

Note: This is a licensed feature (EDLM and/or Active Vault).

URI	<i>aml/system/policy/externalApplicationServers</i>
Method	POST
User Role Access	Admin, Service
Version	700(i6k), 110(i6)
Parameters	N/A
Request Header	Content-Type:application/xml or application/json
Request Data	See Figure 75: externalApplicationServers
Response Codes	201, 403
Response Header	Content-Type:application/xml or application/json Location: <i>aml/system/externalApplicationServers/{name}</i>
Response Data	See Figure 203: WSResultCode

Table 327: GET *aml/system/policy/externalApplicationServer/{name}*

Product Support: Scalar i6k, Scalar i6

Description: Retrieve the externalApplicationServers with the name given by URI path template "name".

URI	<i>aml/system/policy/externalApplicationServer/{name}</i>
Method	GET
User Role Access	Admin, Service, User
Version	700(i6k), 110(i6)
Parameters	N/A
Request Header	N/A
Request Data	N/A
Response Codes	200, 404
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 75: externalApplicationServers

Table 328: PUT *aml/system/policy/externalApplicationServer/{name}*

Product Support: Scalar i6k, Scalar i6

Description: Modify the externalApplicationServers with the name given by URI path template “name”.

The example below will change the name of the externalApplicationServers from EDLMservers to StorNext and reconfigure the policy to use server 10.20.169.88 only using the following URI:

“aml/system/policy/externalApplicationServer/EDLMservers”

```
<ns2:externalApplicationServers xmlns:ns2="http://automatedMediaLibrary/">
  <name>StorNext</name>
  <server>
    <name>10.20.169.88</name>
    <port>61776</port>
  </server>
</ns2:externalApplicationServers>
```

If you just want to change the name, then just specify the name

```
<ns2:externalApplicationServers xmlns:ns2="http://automatedMediaLibrary/">
  <name>StorNext5.0</name>
</ns2:externalApplicationServers>
```

If you just want to change the external application name plugin

```
<ns2:externalApplicationServers xmlns:ns2="http://automatedMediaLibrary/">
  externalApplicationName>snapi-2.0.1</externalApplicationName>
</ns2:externalApplicationServers>
```

You can specify any combination of the above.

URI	<i>aml/system/policy/externalApplicationServer/{name}</i>
Method	PUT
User Role Access	Admin, Service
Version	700(i6k), 110(i6)
Parameters	N/A
Request Header	Content-Type: application/xml or application/json
Request Data	See Figure 75: externalApplicationServers
Response Codes	200, 403, 404

URI	<i>aml/system/policy/externalApplicationServer/{name}</i>
Response Header	Content-Type: application/xml or application/json
Response Data	See Figure 75: externalApplicationServers

Table 329: DELETE *aml/system/policy/externalApplicationServer/{name}*

Product Support: Scalar i6k, Scalar i6

Description: Delete the externalApplicationServers with the name given by URI path template “name”.

URI	<i>aml/system/policy/externalApplicationServer/{name}</i>
Method	DELETE
User Role Access	Admin, Service
Version	700(i6k), 110(i6)
Parameters	N/A
Request Header	N/A
Request Data	N/A
Response Codes	200, 403, 404
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 203: WSResultCode

Table 330: GET *aml/system/ras*

Product Support: Scalar i6k, Scalar i3, Scalar i6

Description: Retrieve the Reliability, Accessibility and Serviceability (RAS) group status resource list.

Note: The Scalar i6k does not support group 0 (Library).

URI	<i>aml/system/ras</i>
Method	GET
User Role Access	Admin, Service, User
Version	700(i6k), 110(i3/i6)
Parameters	N/A
Request Header	N/A
Request Data	N/A
Response Codes	200
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 159: RASGroupStatusList

Table 331: GET *aml/system/ras/{group}*

Product Support: Scalar i6k, Scalar i3, Scalar i6

Description: Retrieve the RAS group status resource given by URI path template “group”.

Note: The Scalar i6k supports overall Library RAS status reporting by requesting status for group 0.

<i>URI</i>	<i>aml/system/ras/{group}</i>
Method	GET
User Role Access	Admin, Service, User
Version	700(i6k), 110(i3/i6)
Parameters	N/A
Request Header	N/A
Request Data	N/A
Response Codes	200, 403, 404
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 160: RASGroupStatus

Table 332: GET aml/system/ras/tickets

Product Support: Scalar i6k, Scalar i3, Scalar i6

Description: Retrieve the ticket summary resource instances using the query parameter filters.

To retrieve all drive and control ticket summaries that are currently opened you would specify the following:

“aml/system/ras/tickets?group=20&state=4”

Status queries support bit mask queries for group, status and state values. For example as shown above, group 20 represents group 4(control) + group 16(drive).

<i>URI</i>	<i>aml/system/ras/tickets</i>
Method	GET
User Role Access	Admin, Service, User
Version	700(i6k), 110(i3/i6)
Parameters	<p>Query parameters are group, status, state</p> <ul style="list-style-type: none"> • group values 255 (All), 2 (Connectivity), 4 (Control), 8 (Media), 16 (Drive), 32 (Power), 64 (Robotics) 128 (Library) i3/i6 Only • status values 255 (All) 4 (Failed), 8 (Degraded), 16 (Warning)

URI	aml/system/ras/tickets
	<ul style="list-style-type: none"> state values 255 (All), 4 (Opened), 16 (Closed), 32 (Verified) 64 (Suspended) (i3/i6 Only) <p>These Query parameters work like a bit mask, for instance if you want find tickets belonging to Control and Media you would specify 12 (4+8).</p>
Request Header	N/A
Request Data	N/A
Response Codes	200, 404
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 164: RASTicketList

Table 333: GET aml/system/ras/ticket/{id}

Product Support: Scalar i6k, Scalar i3, Scalar i6

Description: Retrieve the ticket resource instance with the value given by the URI path template “id”.

URI	aml/system/ras/ticket/{id}
Method	GET
User Role Access	Admin, Service, User
Version	700(i6k), 110(i3/i6)
Parameters	<p>Optional query parameter is save, with the following valid values:</p> <ul style="list-style-type: none"> save="name" where name is a file name to use to save the ticket information and resolution to. The file format will be in zip format. <p>The save="name" query parameter should be used by a client browser to allow the data to be saved by the browser to a file. A default "name" is provided.</p>
Request Header	N/A
Request Data	N/A
Response Codes	200, 404
Response Header	Content-Type: application/xml, application/json or application/octet-stream On success and save= parameter is used Cookie: name= FileDownloadingProgressCookie, value=Done
Response Data	See Figure 165: RASTicket

Table 334: PUT aml/system/ras/ticket/{id}

Product Support: Scalar i6k, Scalar i3, Scalar i6

Description: Change the ticket resource instance state with the value given by URI path template “id”. The state will be changed to Closed. Only tickets that are in an ‘Open’ state can be closed.

URI	aml/system/ras/ticket/{id}
Method	PUT
User Role Access	Admin, Service
Version	700(i6k) , 110(i3/i6)
Parameters	N/A
Request Header	N/A
Request Data	N/A
Response Codes	200, 403, 404
Response Header	Content-Type: application/xml or application/json
Response Data	See Figure 165: RASTicket

Table 335: POST aml/system/ras/ticket/{id}/email

Product Support: Scalar i6k, Scalar i3, Scalar i6

Description: Email the ticket information to the recipients contained in the email object. The email will have an attachment containing the resolution and the body will contain ticket information.

URI	aml/system/ras/ticket/{id}/email
Method	POST
User Role Access	Admin, Service
Version	700(i6k), 110(i3/i6)
Parameters	N/A
Request Header	Content-Type:application/xml or application/json
Request Data	See Figure 63: email
Response Codes	200, 403, 404
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 203: WSResultCode

Table 336: GET aml/system/ras/ticket/{id}/history

Product Support: Scalar i6k

Description: Retrieve the ticket resource history list of related tickets for the ticket with the “id” given by URI path template “id”.

URI	aml/system/ras/ticket/{id}/history
Method	GET

URI	<i>aml/system/ras/ticket/{id}/history</i>
User Role Access	Admin, Service, User
Version	700(i6k)
Parameters	N/A
Request Header	N/A
Request Data	N/A
Response Codes	200, 404
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 164: RASTicketList

Table 337: GET *aml/system/ras/ticket/{id}/reports*

Product Support: Scalar i6k

Description: Retrieve the ticket resource reports list for the ticket with the “id” given by URI path template “id”.

URI	<i>aml/system/ras/ticket/{id}/reports</i>
Method	GET
User Role Access	Admin, Service, User
Version	700(i6k)
Parameters	N/A
Request Header	N/A
Request Data	N/A
Response Codes	200, 404
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 163: RASTicketReports

Table 338: GET *aml/system/ras/ticket/{id}/resolution*

Product Support: Scalar i6k, Scalar i3, Scalar i6

Description: Retrieve the RAS ticket resolution information. You can request a byte stream or an html page.

URI	<i>aml/system/ras/ticket/{id}/resolution</i>
Method	GET
User Role Access	Admin, Service, User
Version	700(i6k), 110(i3/i6)
Parameters	Optional query parameter is save with the following valid values: <ul style="list-style-type: none"> • save="name" where name is a file name to use to save the ticket resolution to. The file format is HTML The save="name" query parameter should be used by a client browser to allow the data to be saved by the browser to a file. A default "name" is provided.

URI	<i>aml/system/ras/ticket/{id}/resolution</i>
Request Header	N/A
Request Data	N/A
Response Codes	200, 404
Response Header	Content-Type: application/octet-stream or text/html On success and save= parameter is used Cookie: name= FileDownloadingProgressCookie, value=Done
Response Data	Byte Stream or text/html

Table 339: GET *aml/system/reports*

Product Support: Scalar i6k, Scalar i3, Scalar i6

Description: Retrieve the list of supported reports.

URI	<i>aml/system/reports</i>
Method	GET
User Role Access	Admin, Service, User
Version	700(i6k), 110(i3/i6)
Parameters	N/A
Request Header	N/A
Request Data	N/A
Response Codes	200
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 169: reportList

Table 340: GET *aml/system/reports/templates*

Product Support: Scalar i6k, Scalar i3, Scalar i6

Description: Retrieve the list of report template resource instances. A report template is used to save report filtering data that can be used to create a report using these saved filters.

URI	<i>aml/system/reports/templates</i>
Method	GET
User Role Access	Admin, Service, User
Version	700(i6k), 110(i3/i6)
Parameters	N/A
Request Header	N/A
Request Data	N/A
Response Codes	200
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 174: reportTemplateList

Table 341: POST aml/system/reports/templates

Product Support: Scalar i6k, Scalar i3, Scalar i6

Description: Create a new reportTemplate resource. When you specify a reportCriteria for the new reportTemplate, the supported reportCriteria options will depend on the report type. You will need to look at the following URI's to see what reportCriteria options are available for each report.

Table 131: GET aml/media/reports/tapeAlerts
 Table 81: GET aml/drives/reports/utilization
 Table 133: GET aml/media/reports/usage
 Table 129: GET aml/media/reports/securityEvents
 Table 122: GET aml/media/reports/crossPartitionMoves
 Table 127: GET aml/media/reports/inventory
 Table 124: GET aml/media/reports/edlm
 Table 251: GET aml/system/ekm/reports/audit/mediaStatus
 Table 253: GET aml/system/ekm/reports/audit/partitionActivity
 Table 379: GET aml/users/reports/login
 Table 146: GET aml/partitions/reports/utilization

The reportTemplate name can only contain the following characters A-Z a-z 0-9 _ and spaces. The maximum number of character allowed is 64.

URI	aml/system/reports/templates
Method	POST
User Role Access	Admin, Service
Version	700(i6k), 110(i3/i6)
Parameters	N/A
Request Header	Content-Type:application/xml or application/json
Request Data	See Figure 175: reportTemplate
Response Codes	201, 403
Response Header	Content-Type:application/xml or application/json Location: aml/system/reports/templates/{id}
Response Data	See Figure 174: reportTemplateList

Table 342: GET aml/system/reports/template/{name}

Product Support: Scalar i6k, Scalar i3, Scalar i6

Description: Retrieve the report template resource instance whose name is given by the URI path template "name".

URI	aml/system/reports/template/{name}
Method	GET
User Role Access	Admin, Service, User
Version	700(i6k), 110(i3/i6)
Parameters	N/A
Request Header	N/A

URI	<i>aml/system/reports/template/{name}</i>
Request Data	N/A
Response Codes	200, 404
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 175: reportTemplate

Table 343: PUT *aml/system/reports/template/{name}*

Product Support: Scalar i6k, Scalar i3, Scalar i6

Description: Update a reportTemplate resource instance with the name given by the URI path template “name”.

If you are modifying the reportTemplate name you need to specify the current reportTemplate id.

URI	<i>aml/system/reports/template/{name}</i>
Method	PUT
User Role Access	Admin, Service
Version	700(i6k), 110(i3/i6)
Parameters	N/A
Request Header	Content-Type:application/xml or application/json
Request Data	Figure 175: reportTemplate
Response Codes	200, 403, 404
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 175: reportTemplate

Table 344: DELETE *aml/system/reports/template/{name}*

Product Support: Scalar i6k, Scalar i3, Scalar i6

Description: Delete the reportTemplate resource instance whose name is represented by the URI path template “name”.

URI	<i>aml/system/reports/template/{name}</i>
Method	DELETE
User Role Access	Admin, Service
Version	700(i6k), 110(i3/i6)
Parameters	N/A
Request Header	N/A
Request Data	N/A
Response Codes	200, 403, 404
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 203: WSResultCode

Table 345: GET aml/system/saveRestore

Product Support: Scalar i6k, Scalar i3, Scalar i6

Description: Create a restore (library configuration) image. This image will be the payload in the response body. This image can be used to restore the library's configuration information.

URI	aml/system/saveRestore
Method	GET
User Role Access	Admin, Service
Version	700(i6k), 110(i3/i6)
Parameters	Optional query parameter is save, with the following valid values: <ul style="list-style-type: none">• save="name" where name is a file name to use to save the rescue image. The file format will be gzip-ed tar file '.tar.gz'. The save="name" query parameter should be used by a client browser to allow the data to be saved by the browser to a file. A default "name" is provided.
Request Header	N/A
Request Data	N/A
Response Codes	200, 403
Response Header	Content-Type: application/x-tar On success and save= parameter is used Cookie: name= FileDownloadingProgressCookie, value=Done
Response Data	Byte Stream (Compressed tar format)

Table 346: POST aml/system/saveRestore

Product Support: Scalar i6k, Scalar i3, Scalar i6

Description: Restore a saved configuration. Upload the configuration file using multipart form data, where the key is 'file' and the value is the file to be uploaded. After the restore is completed the library will reboot.

URI	aml/system-/saveRestore
Method	POST
User Role Access	Admin, Service
Version	700(i6k), 110(i3/i6)
Parameters	N/A
Request Header	Content-Type: multipart/form-data
Request Data	N/A
Response Codes	200, 403, 404
Response Header	Content-Type: application/xml, application/json
Response Data	See Figure 203: WSResultCode

Table 347: GET aml/system/saveRestore/rescue

Product Support: Scalar i6k

Description: Determine if a rescue image has been created on the library.

<i>URI</i>	<i>aml/system/saveRestore/rescue</i>
Method	GET
User Role Access	Admin, Service, User
Version	700(i6k), 110(i3/i6)
Parameters	N/A
Request Header	N/A
Request Data	N/A
Response Codes	200
Response Header	Content-Type:text/plain or application/json
Response Data	true or false

Table 348: POST aml/system/saveRestore/rescue

Product Support: Scalar i6k

Description: Create a rescue image on the library's file system. This image contains the library's current configuration information.

<i>URI</i>	<i>aml/system/saveRestore/rescue</i>
Method	POST
User Role Access	Admin, Service
Version	700(i6k), 110(i3/i6)
Parameters	N/A
Request Header	N/A
Request Data	N/A
Response Codes	200, 403
Response Header	Content-Type: application/xml, application/json
Response Data	See Figure 203: WSResultCode

Table 349: PUT aml/system/saveRestore/rescue

Product Support: Scalar i6k

Description: Restore a library's configuration using the rescue image. The rescue image allows you to roll back the library's configuration settings to a previous state.

Note: After the operation has completed the library will automatically reboot.

<i>URI</i>	<i>aml/system/saveRestore/rescue</i>
Method	PUT
User Role Access	Admin, Service
Version	700(i6k), 110(i3/i6)
Parameters	N/A
Request Header	N/A
Request Data	N/A

<i>URI</i>	<i>aml/system/saveRestore/rescue</i>
Response Codes	200, 403, 404
Response Header	Content-Type: application/xml, application/json
Response Data	See Figure 203: WSResultCode

Table 350: GET aml/system/saveRestore/revert

Product Support: Scalar i6k

Description: Determine if a revert image has been created on the library. The revert image is automatically created and stored locally as the first step of any restore or rescue operation. The purpose of the Revert process is to revert to the last configuration that was used before a restore image was applied. If an incorrect restore image was applied, the Revert feature allows the MCB to revert back to its prior configuration.

<i>URI</i>	<i>aml/system/saveRestore/revert</i>
Method	GET
User Role Access	Admin, Service, User
Version	700(i6k), 110(i3/i6)
Parameters	N/A
Request Header	N/A
Request Data	N/A
Response Codes	200
Response Header	Content-Type:text/plain or application/json
Response Data	true or false

Table 351: PUT aml/system/saveRestore/revert

Product Support: Scalar i6k

Description: Restore a library's configuration using the Revert image.

Note: After the operation has completed the library will automatically reboot.

<i>URI</i>	<i>aml/system/saveRestore/revert</i>
Method	PUT
User Role Access	Admin, Service
Version	700(i6k), 110(i3/i6)
Parameters	N/A
Request Header	N/A
Request Data	N/A
Response Codes	200, 403, 404
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 203: WSResultCode

Table 352: GET aml/system/sensors

Product Support: Scalar i6k, Scalar i3, Scalar i6

Description: Retrieve the sensor resource instances for the library. The sensor list will include cooling, power, temperature, voltage and humidity sensors for Scalar i6k requests and power, temperature and humidity sensors for the Scalar i3/i6.

Note: The query parameter `type="voltage"` has been deprecated in Scalar i6k version 743. The query will return an empty list.

<i>URI</i>	<i>aml/system/sensors</i>
Method	GET
User Role Access	Admin, Service, User
Version	700(i6k), 110(i3/i6)
Parameters	Query parameter names are "type" with the following valid values <ul style="list-style-type: none">type = "cooling"(i6k only), "temperature", "voltage"(i6k only), "power" or "humidity"
Request Header	N/A
Request Data	N/A
Response Codes	200
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 180: sensorList

Table 353: GET aml/system/snapshot

Product Support: Scalar i6k, Scalar i3, Scalar i6

Description: Capture a snapshot of the type specified by the given query parameter. The snapshot will be returned in the body of the response.

<i>URI</i>	<i>aml/system/snapshot</i>
Method	GET
User Role Access	Admin, Service
Version	700(i6k), 110(i3/i6)
Parameters	Query parameters are type and save where the valid values are as follows: <ul style="list-style-type: none">type=basic, extended (i6k only), reduced(i3/i6 only). If no type is requested an extended snapshot will be captured for i6k and a basic will be captured for i3/i6.save="name" where name is a file name to use to save the snap shot to. The file format will be tgz. The save="name" query parameter should be used by a client browser to allow the data to be saved by the browser to a file.

<i>URI</i>	<i>aml/system/snapshot</i>
	A default “name” is provided.
Request Header	N/A
Request Data	N/A
Response Codes	200, 403
Response Header	Content-Type: application/x-tar, application/xml or application/json On success and save= parameter is used Cookie: name= FileDownloadingProgressCookie, value=Done
Response Data	Compress tar file (byte stream).

Table 354: POST aml/system/snapshot/email

Product Support: Scalar i6k, Scalar i3, Scalar i6

Description: Email a snapshot log file collection.

The information will be in an email attachment and the file format will be TGZ.

<i>URI</i>	<i>aml/system/snapshot/email</i>
Method	POST
User Role Access	Admin, Service
Version	700(i6k), 110(i3/i6)
Parameters	Query parameters are type where the valid values are as follows: <ul style="list-style-type: none"> type=basic, extended (i6k only) or reduced (i3/i6 only). If no type is requested, an extended snapshot will be captured for i6k and a basic will be captured for i3/i6.
Request Header	Content-Type:application/xml or application/json
Request Data	See Figure 63: email
Response Codes	200, 403
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 203: WSResultCode

Table 355: GET aml/system/software

Product Support: Scalar i6k, Scalar i3, Scalar i6

Description: Retrieve the current library firmware components/distributions and versions saved on the library. The list will contain the currently installed version, component = Current, the previous distribution that was installed, component = Rollback and a distribution that has been uploaded to the library, component = Uploaded. For i6k library’s, this uploaded component can be installed at any time if the version of this component is greater than the currently installed version.

```

<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:firmwareList xmlns:ns2="http://automatedMediaLibrary/">
  <lastInstallDate>2014-06-02 09:57:50 -0600</lastInstallDate>
  <firmware>
    <component>Current</component>
    <version>665H.TS07401</version>
  </firmware>
  <firmware>
    <component>Rollback</component>
    <version>665H.TS06701</version>
  </firmware>
  <firmware>
    <component>Uploaded</component>
    <version></version>
  </firmware>
</ns2:firmwareList>

```

URI	<i>aml/system/software</i>
Method	GET
User Role Access	Admin, Service, User
Version	700(i6k), 110(i3/i6)
Parameters	N/A
Request Header	N/A
Request Data	N/A
Response Codes	200
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 86: firmwareList

Table 356: POST *aml/system/software*

Product Support: Scalar i6k, Scalar i3, Scalar i6

Description: Upload the software component/distribution file using multipart form data, where the key is 'file' and the value is the file to be uploaded. This will upload the distribution software to the library. This does not install this new distribution. To install it see: Table 357: GET *aml/system/software/operations/update*.

Note: For i6k libraries, the description element of the WSResultCode object will contain a colon ":" separated name value pair list as following, for successful request:

STATUS="OK" or "WARNING"

MESSAGE="Some message"

Example: <description>STATUS=OK:MESSAGE=Signed by Production Certificate</description>

Note: This is a licensed feature for i3/i6 (Service).

URI	<i>aml/system/software</i>
Method	POST
User Role Access	Admin, Service
Version	700(i6k), 110(i3/i6)

URI	<i>aml/system/software</i>
Parameters	N/A
Request Header	Content-Type: multipart/form-data
Request Data	Software distribution file
Response Codes	200, 403
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 203: WSResultCode

Table 357: GET *aml/system/software/operations/update*

Product Support: Scalar i6k

Description: Retrieve the progress of the current software update operation. This will report the current installation status. Initially, the status element may be empty but as the installation progresses, it will report a % complete. When the software update has completed, the status components will all report 100% or Failed if there was a problem.

The updateState element will report the overall state of the software update, see Figure 92: firmwareStatusList for details.

Example:

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:firmwareStatusList xmlns:ns2="http://automatedMediaLibrary/">
  <updateState>2</updateState>
  <firmwareStatus>
    <component>FDM</component>
    <status>Awaiting RCU -- Overall 4%</status>
  </firmwareStatus>
  <firmwareStatus>
    <component>AMC</component>
    <status>100%</status>
  </firmwareStatus>
  <firmwareStatus>
    <component>MCB</component>
    <status>100%</status>
  </firmwareStatus>
  <firmwareStatus>
    <component>RCU</component>
    <status>5%</status>
  </firmwareStatus>
  <firmwareStatus>
    <component>CMB</component>
    <status>100%</status>
  </firmwareStatus>
  <firmwareStatus>
    <component>EEB</component>
    <status>100%</status>
  </firmwareStatus>
</ns2:firmwareStatusList>
```

Note: After the software update has completed successfully the library will automatically be rebooted, so the connection to the library will be lost and any requests to the library at this time will receive a 503 status code (Service Unavailable).

URI	aml/system/software/operations/update
Method	GET
User Role Access	Admin, Service, User
Version	700(i6k), 110(i3/i6)
Parameters	N/A
Request Header	N/A
Request Data	N/A
Response Codes	200, 403
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 92: firmwareStatusList

Table 358: POST aml/system/software/operations/update

Product Support: Scalar i6k, Scalar i3, Scalar i6

Description: Start the software installation for the given firmware object. In the example below we decided to install the previously installed software distribution (Rollback).

Note: After the install/update has completed the library will automatically be rebooted.

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:firmware xmlns:ns2="http://automatedMediaLibrary/">
  <component>Rollback</component>
  <version>665H.TS07401</version>
</ns2:firmware>
```

Note: This is a licensed feature for i3/i6 (Service).

URI	aml/system/software/operations/update
Method	POST
User Role Access	Admin, Service
Version	700(i6k), 110(i3/i6)
Parameters	N/A
Request Header	Content-Type:application/xml or application/json
Request Data	See Figure 87: firmware
Response Codes	200, 403, 404
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 203: WSResultCode

Table 359: GET aml/system/software/externalApplications

Product Support: Scalar i6k

Description: Retrieve a list of externalApplication resources. This will report the StorNext plugins installed on the library.

URI	aml/system/software/externalApplications
Method	GET
User Role Access	Admin, Service, User
Version	700(i6k)
Parameters	N/A
Request Header	N/A
Request Data	N/A
Response Codes	200
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 72: externalApplicationList

Table 360: POST aml/system/software/externalApplications

Product Support: Scalar i6k

Description: Upload an external application file using form data, where the key is 'file' and the value is the filename.

URI	aml/system/software/externalApplications
Method	POST
User Role Access	Admin, Service
Version	700(i6k)
Parameters	N/A
Request Header	Content-Type: multipart/form-data
Request Data	The external application file
Response Codes	201, 403
Response Header	Content-Type:application/xml or application/json Location: aml/system/software/externalApplication/{name}
Response Data	See Figure 203: WSResultCode

Table 361: GET aml/system/software/externalApplication/{name}

Product Support: Scalar i6k

Description: Retrieve the externalApplication resource given by the URI path template "name".

URI	aml/system/software/externalApplication/{name}
Method	GET
User Role Access	Admin, Service, User
Version	700(i6k)
Parameters	N/A

URI	<i>aml/system/software/externalApplication/{name}</i>
Request Header	N/A
Request Data	N/A
Response Codes	200, 404
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 73: externalApplication

Table 362: DELETE *aml/system/software/externalApplication/{name}*

Product Support: Scalar i6k

Description: Delete the external application file given by the URI path template “name”.

URI	<i>aml/system/software/externalApplication/{name}</i>
Method	DELETE
User Role Access	Admin, Service
Version	700(i6k)
Parameters	N/A
Request Header	N/A
Request Data	N/A
Response Codes	200, 403, 404
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 203: WSResultCode

Table 363: GET *aml/system/software/availableFirmware*

Product Support: Scalar i3, Scalar i6

Description: Retrieve the available firmware resource. This object reports the latest library firmware version that is available on the Web.

URI	<i>aml/system/software/availableFirmware</i>
Method	GET
User Role Access	Admin, Service, User
Version	110(i3/i6)
Parameters	N/A
Request Header	N/A
Request Data	N/A
Response Codes	200
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 11: availableFirmware

Table 364: POST *aml/system/software/availableFirmware*

Product Support: Scalar i3, Scalar i6

Description: Initiate a download of the latest library firmware from the service website. This operation will load a library firmware bundle onto the library but will not automatically install it.

URI	<i>aml/system/software/availableFirmware</i>
Method	POST
User Role Access	Admin, Service
Version	110(i3/i6)
Parameters	N/A
Request Header	N/A
Request Data	N/A
Response Codes	200, 403
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 203: WSResultCode

Table 365: GET aml/users

Product Support: Scalar i6k, Scalar i3, Scalar i6

Description: Retrieve the user resource instances.

URI	<i>aml/users</i>
Method	GET
User Role Access	Admin, Service, User (If User then only show this users information)
Version	700(i6k), 110(i3/i6)
Parameters	N/A
Request Header	N/A
Request Data	N/A
Response Codes	200
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 196: userList

Table 366: POST aml/users

Product Support: Scalar i6k, Scalar i3, Scalar i6

Description: Create a new user resource instance. You must specify a name, password and role. The valid user roles are 0 (ADMIN) or 1 (USER). If you do not specify a role element, the role defaults to ADMIN.

The following user names are reserved and cannot be used to create a new user: service, admin, cvtl and security.

The name element only allows the following characters: "A-Za-z0-9 _"

Note: When you create a new user the name will be stored in all lower case characters, because joe = Joe = JOE.

The password element accepts: all printable characters except back tick and tilde.

The minimum number of characters for password is 8 and the maximum number of characters for name or password is 64.

<i>URI</i>	<i>aml/users</i>
Method	POST
User Role Access	Admin, Service
Version	700(i6k), 110(i3/i6)
Parameters	N/A
Request Header	Content-Type:application/xml or application/json
Request Data	See Figure 197: user
Response Codes	200(i6k) 201(i3/i6), 403
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 197: user

Table 367: GET aml/users/ldap

Product Support: Scalar i6k, Scalar i3, Scalar i6

Description: Retrieve the LDAP configuration resource.

<i>URI</i>	<i>aml/users/ldap</i>
Method	GET
User Role Access	Admin, Service, User (If Service or User,, the only information returned is whether LDAP is enabled/disabled)
Version	700(i6k), 110(i3/i6)
Parameters	N/A
Request Header	N/A
Request Data	N/A
Response Codes	200
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 106: ldap

Table 368: PUT aml/users/ldap

Product Support: Scalar i6k, Scalar i3, Scalar i6

Description: Configure the LDAP resource. Initially all elements of the ldap object must be completed except for the alternateServer which may be null. When LDAP is being disabled, only the enable element is required. After the LDAP configuration is saved on the library, the library will persist this data. When the user disables LDAP the configuration is still persisted but it is not used. If you change the state from disabled to enabled you will still need to pass down all the required elements even though the library has this data persisted. The exception to this is the ldap.searchUserPassword element, which does not need to be included; if it is empty or null the persisted value will be used.

URI	aml/users/ldap
Method	PUT
User Role Access	Admin, Service (i6k) Admin (i3/i6)
Version	700(i6k), 110(i3/i6)
Parameters	N/A
Request Header	Content-Type:application/xml or application/json
Request Data	See Figure 106: ldap
Response Codes	200, 403
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 106: ldap

Table 369: POST aml/users/ldap

Product Support: Scalar i6k, Scalar i3, Scalar i6

Description: Upload LDAP certificate(s) to the library. These certificates are generally distributed public keys from the LDAP server. When uploading the file(s), the key is 'file' and the value is the 'file name'.

Note: This interface has been deprecated and is being replaced with, Table 371: POST aml/users/ldap/certificates

URI	aml/users/ldap
Method	POST
User Role Access	Admin, Service
Version	700(i6k), 110(i3/i6)
Parameters	N/A
Request Header	Content-Type:multipart/form-data
Request Data	LDAP Certificate file
Response Codes	200, 403
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 203: WSResultCode

Table 370: GET aml/users/ldap/certificates

Product Support: Scalar i3, Scalar i6

Description: Retrieve a list of LDAP certificates that were uploaded to the library. These certificates are generally distributed public keys from the LDAP server.

URI	aml/users/ldap/certificates
Method	GET
User Role Access	Admin, Service
Version	110(i3/i6)
Parameters	N/A

URI	<i>aml/users/ldap/certificates</i>
Request Header	Content-Type:application/xml or application/json
Request Data	N/A
Response Codes	200, 403
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 16: communicationCertificateList

Table 371: POST *aml/users/ldap/certificates*

Product Support: Scalar i6k, Scalar i3, Scalar i6

Description: Upload LDAP certificate(s) to the library. These certificates are generally distributed public keys from the LDAP server. When uploading the file(s), the key is 'file' and the value is the 'file name'.

URI	<i>aml/users/ldap/certificates</i>
Method	POST
User Role Access	Admin, Service
Version	720(i6k), 110(i3/i6)
Parameters	N/A
Request Header	Content-Type:multipart/form-data
Request Data	LDAP Certificate file
Response Codes	200, 403
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 203: WSResultCode

Table 372: POST *aml/users/ldap/keytab*

Product Support: Scalar i3, Scalar i6

Description: Upload the LDAP keytab file to the library.

The multipart form data key is 'file' and the value is the file to be uploaded.

URI	<i>aml/users/ldap/keytab</i>
Method	POST
User Role Access	Admin, Service
Version	110(i3/i6)
Parameters	N/A
Request Header	Content-Type multipart/formdata
Request Data	N/A
Response Codes	200
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 203: WSResultCode

Table 373: POST aml/users/ldap/test

Product Support: Scalar i6k, Scalar i3, Scalar i6

Description: Test the LDAP user and configuration settings provided in the request. When testing LDAP configuration, you are not required to provide a user or password in the ldapTest object. If you want to verify the LDAP user name and password you are required to provide the user and password and also the LDAP configuration settings, ldapTest.Ldap.

<i>URI</i>	<i>aml/users/ldap/test</i>
Method	POST
User Role Access	Admin, Service
Version	700(i6k), 110(i3/i6)
Parameters	N/A
Request Header	Content-Type:application/xml or application/json
Request Data	See Figure 107: ldapTest
Response Codes	200, 403, 404
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 203: WSResultCode

Table 374: POST aml/users/login

Product Support: Scalar i6k

Description: Login to the library. A successful login returns a session cookie that needs to be used for successive requests. If a service user is currently logged in a 503 status code is returned and the login request will be denied. There are three user types/roles supported, Service, Administrator and Regular/User. If a Service user logs in, all other users will have their sessions terminated.

On the i6k, if the number of user logins has exceeded the limit, the customCode element of the WSResultCode will be set to 1 and a HTTP status of 503 will be returned.

Note: The Scalar i6k supports 5 concurrent administrator user logins and 25 regular user logins, or a single service user login.

<i>URI</i>	<i>aml/users/login</i>
Method	POST
User Role Access	Admin, Service, User
Version	700(i6k)
Parameters	The form parameters are name, password, ldap and forceLogin. The valid values for each parameter are as follows: <ul style="list-style-type: none">• name = valid user name• password = the user password• ldap = "true" or "false", true, if you want to use LDAP to authenticate

<i>URI</i>	<i>aml/users/login</i>
	<ul style="list-style-type: none"> forceLogin = “true” or “false” (Not supported on i3/i6) <p>The forceLogin parameter only applies to an admin user. This can be used when the number of admin logins has exceed the maximum allowed. If used and the number of admin logins has exceeded the limit, then one of the current admin logins will be terminated. This parameter is not supported on i3/i6.</p> <p>On the i6k, If the number of user logins has exceeded the limit, the customCode element of the WSResultCode will be set to 1.</p> <p>Note: This interface does NOT support query parameters, only form parameters..</p>
Request Header	Content-Type: application/x-www-form-urlencoded
Request Data	HTTP form data
Response Codes	200, 404, 503
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 203: WSResultCode

Table 375: POST aml/users/login

Product Support: Scalar i6k, Scalar i3, Scalar i6

Description: Login to the library using the user XML or JSON object. A successful login returns a session cookie that needs to be used for successive requests. If a service user is currently logged in, a 503 status code is returned and the login request will be denied. There are three user types/roles supported, Service, Administrator and Regular/User. If a Service user logs in, all other users will have their sessions terminated.

On the i6k, If the number of user logins has exceeded the limit, the customCode element of the WSResultCode will be set to 1 and a HTTP status of 503 will be returned.

Note: The Scalar i6k supports 5 concurrent administrator user logins and 25 regular user logins, or a single service user login. The Scalar i3/i6 supports 25 concurrent administrator and regular user logins, but only just a single service user login.

<i>URI</i>	<i>aml/users/login</i>
Method	POST
User Role Access	Admin, Service, User
Version	700(i6k), 110(i3/i6)
Parameters	The query parameters forceLogin. The valid values for each parameter are as follows:

URI	aml/users/login
	<ul style="list-style-type: none"> forceLogin = “true” or “false” (Not supported on i3/i6) <p>The forceLogin parameter only applies to an admin user. This can be used when the number of admin logins has exceed the maximum allowed. If used and the number of admin logins has exceeded the limit, then one of the current admin logins will be terminated This parameter is not supported on i3/i6.</p> <p>On the i6k, If the number of user logins has exceeded the limit, the customCode element of the WSResultCode will be set to 1.</p>
Request Header	Content-Type:application/xml or application/json
Request Data	See Figure 197: user
Response Codes	200, 404, 503
Response Header	Content-Type:application/xml or application/json Warning: Default Password Supplied. This header will be returned if it is the first login for a new user or if an Admin has reset the user’s password. This is not supported on the i6k.
Response Data	See Figure 197: user

Table 376: DELETE aml/users/login

Product Support: Scalar i6k, Scalar i3, Scalar i6

Description: Logout of the library web services.

URI	aml/users/login
Method	DELETE
User Role Access	Admin, Service, User
Version	700(i6k), 110(i3/i6)
Parameters	N/A
Request Header	N/A
Request Data	N/A
Response Codes	200
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 203: WSResultCode

Table 377: GET aml/users/luiAccess

Product Support: Scalar i3, Scalar i6

Description: Retrieve the local UI access resource.

<i>URI</i>	<i>aml/users/luiAccess</i>
Method	GET
User Role Access	Admin, Service, User
Version	110(i3/i6)
Parameters	N/A
Request Header	N/A
Request Data	N/A
Response Codes	200
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 126: LUIAccess

Table 378: PUT aml/users/luiAccess

Product Support: Scalar i3, Scalar i6

Description: Update the local UI access resource.

<i>URI</i>	<i>aml/users/luiAccess</i>
Method	PUT
User Role Access	Admin, Service, User
Version	110(i3/i6)
Parameters	N/A
Request Header	Content-Type:application/xml or application/json
Request Data	See Figure 126: LUIAccess
Response Codes	200
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 126: LUIAccess

Table 379: GET aml/users/reports/login

Product Support: Scalar i6k

Description: Retrieve the list of user login activity records.

<i>URI</i>	<i>aml/users/reports/login</i>
Method	GET
User Role Access	Admin, Service, User
Version	700(i6k), 110(i3/i6)
Parameters	The following query parameters are supported, start, length, period, date, save with the following values: <ul style="list-style-type: none">• start=0-n

URI	<i>aml/users/reports/login</i>
	<ul style="list-style-type: none"> • length=1-n or -1 for all records • period=the last number of days to include in the report. So if you want to report for the last week, you would specify 7. • date=At what date you want to start your query. The data returned will include all records that are equal or older than the date specified. When used with the period parameter, the data returned will include all records that are equal or older than the date specified up to the period (number of days) specified. The date format expected is “yyyy-MM-dd HH:mm:ss” or “yyyy-MM-dd HH:mm:ss Z”, the Z (time zone) will be ignored.. • save=”name” where name is a file name to use to save the tape alert information to. The file format will be CSV. The data separator is a “!” (exclamation point character) not a comma “,”. <p>The save=”name” query parameter should be used by a client browser to allow the data to be saved by the browser to a file. A default “name” is provided.</p> <p>If no query parameters are used the request will return all the login activity data.</p>
Request Header	N/A
Request Data	N/A
Response Codes	200
Response Header	Content-Type: application/xml, application/json, text/plain, application/octet-stream On success and save= parameter is used Cookie: name= FileDownloadingProgressCookie, value=Done
Response Data	See Figure 119: loginActivityList or octet-stream or text

Table 380: POST aml/users/reports/login/email

Product Support: Scalar i6k

Description: Email the list of user login activity records.

The information will be in an email attachment and the file format will be CSV. The data separator is a “!” (exclamation point character) not a comma “,”.

<i>URI</i>	<i>aml/users/reports/login/email</i>
Method	POST
User Role Access	Admin, Service
Version	700(i6k), 110(i3/i6)
Parameters	N/A
Request Header	Content-Type:application/xml or application/json
Request Data	See Figure 63: email
Response Codes	200, 403
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 203: WSResultCode

Table 381: GET aml/users/sessions

Product Support: Scalar i6k, Scalar i3, Scalar i6

Description: Retrieve the user sessions (current logged in users) resources. For a Service (i3/i6 only) or User role, only the current user's session is returned.

<i>URI</i>	<i>aml/users/sessions</i>
Method	GET
User Role Access	Admin, Service, User (If User return only this users session information)
Version	700(i6k), 110(i3/i6)
Parameters	N/A
Request Header	N/A
Request Data	N/A
Response Codes	200
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 200: userSessionList

Table 382: DELETE aml/users/session/{id}

Product Support: Scalar i6k, Scalar i3, Scalar i6

Description: Log off the user with the id given by URI path template “id”. The user id's are reported in the userSession objects URI aml/users/sessions. Only uses with Admin privileges (role 0) can log off other users.

URI	<i>aml/users/session/{id}</i>
Method	DELETE
User Role Access	Admin, Service (i6k) Admin (i3/i6)
Version	700(i6k), 110(i3/i6)
Parameters	N/A
Request Header	N/A
Request Data	N/A
Response Codes	200, 403, 404
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 203: WSResultCode

Table 383: GET *aml/users/luiAccess/mode*

Product Support: Scalar i3, Scalar i6

Description: Retrieve the i3/i6 local access mode. This interface does not require authentication (a user does not have to be logged in).

URI	<i>aml/users/luiAccess/mode</i>
Method	GET
User Role Access	Admin, Service, User
Version	110(i3/i6)
Parameters	N/A
Request Header	N/A
Request Data	N/A
Response Codes	200
Response Header	Content-Type:text/plain or application/json
Response Data	1(Open), 2(Login Required) or 3(PIN required)

Table 384: GET *aml/user*

Product Support: Scalar i6k, Scalar i3, Scalar i6

Description: Retrieve the user resource instance based on the cookie header parameter for the current user.

URI	<i>aml/user</i>
Method	GET
User Role Access	Admin, Service, User (If User return on the User information)
Version	700(i6k), 110(i3/i6)
Parameters	N/A
Request Header	N/A
Request Data	N/A
Response Codes	200
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 197: user

Table 385: GET aml/user/{name}

Product Support: Scalar i6k, Scalar i3, Scalar i6

Description: Retrieve the user resource instance whose name is given by the URI path template “name”.

<i>URI</i>	<i>aml/user/{name}</i>
Method	GET
User Role Access	Admin, Service, User
Version	700(i6k), 110(i3/i6)
Parameters	N/A
Request Header	N/A
Request Data	N/A
Response Codes	200, 404
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 197: user

Table 386: PUT aml/user/{name}

Product Support: Scalar i6k, Scalar i3, Scalar i6

Description: Update a user resource instance whose name is given by the URI path template “name”.

The name element only allows the following characters: “A-Za-z0-9 _”

If changing the password element the valid characters are all printable characters except back tick and tilde.

The minimum number of characters for password is 8 and the maximum number of characters for name or password is 64.

A standard/regular (role = 1) user can only modify the password. In this case, you will need to set the role element of the user object to -1 so it will be ignored.

When an ADMIN user (role = 0) is modifying a standard user, they must always specify the role element, because if you don't the role element will default to 0 which means that the standard user will now have ADMIN privileges.

Also you must always specify the partition access list because if you don't, that user will not have access to partitions.

The password element can be null which will indicate that no password change is to be made.

<i>URI</i>	<i>aml/user/{name}</i>
Method	PUT
User Role Access	Admin, Service, User (If User, then only allow the user to change his/her password)
Version	700(i6k), 110(i3/i6)
Parameters	N/A

URI	<i>aml/user/{name}</i>
Request Header	Content-Type:application/xml or application/json
Request Data	See Figure 197: user
Response Codes	200, 403, 404
Response Header	Content-Type:application/xml or application/json
Response Data	Scalar i3/6, see Figure 197: user Scalar i6k, see Figure 203: WSResultCode

Table 387: DELETE *aml/user/{name}*

Product Support: Scalar i6k, Scalar i3, Scalar i6

Description: Delete the user resource instance whose username is represented by the URI path template “name”.

URI	<i>aml/user/{name}</i>
Method	DELETE
User Role Access	Admin, Service
Version	700(i6k), 110(i3/i6)
Parameters	N/A
Request Header	N/A
Request Data	N/A
Response Codes	200, 403, 404
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 203: WSResultCode

Table 388: PUT *aml/user/admin/reset*

Product Support: Scalar i3, Scalar i6

Description: Reset the default admin’s password to “password”.

URI	<i>aml/user/admin/reset</i>
Method	PUT
User Role Access	Service
Version	110(i3/i6)
Parameters	N/A
Request Header	N/A
Request Data	N/A
Response Codes	200, 403, 404
Response Header	Content-Type:application/xml or application/json
Response Data	See Figure 203: WSResultCode

6. Appendix

6.1 Resource Objects

The following figures list the supported resource objects (XML representation) available by the Web Services interfaces.

Figure 1: accessDeviceList

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:accessDeviceList xmlns:ns2="http://automatedMediaLibrary/">
  <accessDevice/> <!-- List of accessDevice objects, see Figure 2: accessDevice -->
</ns2:accessDeviceList>
```

Figure 2: accessDevice

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:accessDevice xmlns:ns2="http://automatedMediaLibrary/">
  <serialNumber>F001396025</serialNumber> <!-- drive or partition serial number -->
  <type>1</type> <!-- 1 (drive) 2 (Partition) -->
  <port>
    <id>1</id>
    <access>true</access>
  </port>
  <port>
    <id>2</id>
    <access>>false</access>
  </port>
</ns2:accessDevice>
```

Figure 3: accessGroupList

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:accessGroupList xmlns:ns2="http://automatedMediaLibrary/">
  <accessGroup/> <!-- List of accessGroup objects, see Figure 4: accessGroup -->
</ns2:accessGroupList>
```

Figure 4: accessGroup

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:accessGroup xmlns:ns2="http://automatedMediaLibrary/">
  <name>AG2</name>
  <hostList/> <!-- See Figure 99: hostList -->
  <accessDeviceList/> <!-- See Figure 1: accessDeviceList -->
</accessGroup>
```

Figure 5: activeVaultPolicyList

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:activeVaultPolicyList xmlns:ns2="http://automatedMediaLibrary/">
  <activeVaultPolicy/> <!-- A list of activeVaultPolicy objects, see Figure 6: activeVaultPolicy -->
</ns2:activeVaultPolicyList>
```

Figure 6: activeVaultPolicy

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:activeVaultPolicy xmlns:ns2="http://automatedMediaLibrary/">
  <partitionName>LL1</partitionName>
  <!-- The partition will have either a vaultDefinedExport policy or a externalDefinedExport policy -->
  <vaultDefinedExport> <!-- Redirect exports to specific Active Vault -->
    <activeVaultName>AV Partition</activeVaultName>
    <mediaFilter>*00LTO5</mediaFilter>
  </vaultDefinedExport>
  <externalDefinedExport> <!-- Redirect exports to external application (StorNext) defined Active Vault
-->
    <externalApplicationServersName>The external application server configuration
name</externalApplicationServersName> <!-- See Figure 75: externalApplicationServers -->
    </externalDefinedExport>
  </activeVaultPolicy>
</ns2:activeVaultPolicyList>
```

Figure 7: autoExportPolicyList

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:autoExportPolicyList xmlns:ns2="http://automatedMediaLibrary/">
  <autoExportPolicy/> <!-- A list of autoExportPolict objects -->
</ns2:autoExportPolicyList>
```

Figure 8: autoExportPolicy

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:autoExportPolicy xmlns:ns2="http://automatedMediaLibrary/">
  <partitionName>LL2</partitionName> <!-- The partition you want to apply the policy too -->
  <destinationAmpPartitionName>AMP</destinationAmpPartitionName> <!-- The AMP partition the
media will be moved too -->
</ns2:autoExportPolicy>
```

Figure 9: autoImportPolicyList

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:autoImportPolicyList xmlns:ns2="http://automatedMediaLibrary/">
  <autoImportPolicy/> <!-- A list of autoImportPolicy objects -->
</ns2:autoImportPolicyList>
```

Figure 10: autoImportPolicy

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:autoImportPolicy xmlns:ns2="http://automatedMediaLibrary/">
  <partitionName>The name of the partition to apply the policy too</partitionName>
  <mediaBarcodeFilter>0000500-0000700</mediaBarcodeFilter> <!-- The media barcode filter range, the
following regex applies "[a-zA-Z0-9]{5,15}-[a-zA-Z0-9]{5,15};?\s*" -->
</ns2:autoImportPolicy>
```

Figure 11: availableFirmware

```
<?xml version="1.0" encoding="UTF-8"?>
<ns2:availableFirmware xmlns:ns2="http://automatedMediaLibrary/">
  <firmwareVersion>The latest library firmware version</firmwareVersion>
  <isUpdated>true</isUpdated> <!-- Indicates, if this version is newer that what is currently installed on
the library -->
```



```
</ns2:availableFirmware>
```

Figure 12: blade

```
<?xml version="1.0" encoding="UTF-8"?>
<ns2:blade xmlns:ns2="http://automatedMediaLibrary/">
  <coordinate/> <!-- See Figure 21: coordinate -->
  <name>name</name>
  <type>1</type> <!-- 1(FC IO Blade), 2(EEB), 3(MCB), 4(LTFS) -->
  <firmwareVersion>firmwareVersion</firmwareVersion>
  <serialNumber>serialNumber</serialNumber>
</ns2:blade>
```

Figure 13: cleanDriveTask

```
<?xml version="1.0" encoding="UTF-8"?>
<ns2:cleanDriveTask xmlns:ns2="http://automatedMediaLibrary/">
  <serialNumber>The drives physical or logical serial number</serialNumber>
  <coordinate>The coordinate of the media to use for cleaning</coordinate> <!-- see Figure 21:
coordinate -->
</ns2:cleanDriveTask>
```

Figure 14: cleaningMediaList

```
<?xml version="1.0" encoding="UTF-8"?>
<ns2:cleaningMediaList xmlns:ns2="http://automatedMediaLibrary/">
  <cleaningMedia/> <!-- A list of cleaningMedia objects -->
</ns2:cleaningMediaList>
```

Figure 15: cleaningMedia

```
<?xml version="1.0" encoding="UTF-8"?>
<ns2:cleaningMedia xmlns:ns2="http://automatedMediaLibrary/">
  <media/> <!--see Figure 130: media -->
  <useCount>The number of times the media was used to clean a drive</useCount>
  <state>1</state> <!-- 0(Unknown), 1(Valid), 2(Invalid), 3(Expired) -->
</ns2:cleaningMedia>
```

Figure 16: communicationCertificateList

```
<?xml version="1.0" encoding="UTF-8"?>
<ns2:communicationCertificateList xmlns:ns2="http://automatedMediaLibrary/">
  <communicationCertificate/> <!-- A list of communicationCertificate objects -->
</ns2:communicationCertificateList>
```

Figure 17: communicationCertificate

```
<?xml version="1.0" encoding="UTF-8"?>
<ns2:communicationCertificate xmlns:ns2="http://automatedMediaLibrary/">
  <keySize>2048</keySize> <!-- 1024, 2048 Or 4096 -->
  <digestAlgorithm>0</digestAlgorithm>
<!--
0(Unknown),
1(MD5),
2(SHA1),
3(SHA224),
4(SHA256),
```

```

5(SHA384),
6(SHA512),
7(MDC2),
8(RIPEMD160)
-->
<issuer/> <!-- certificateInformation object -->
<subject/> <!-- certificateInformation object -->
<type>Root</type> <!-- types are Root, Admin, Client, Identity or Unknown -->
<validNotBefore>Apr 19 13:51:18 2011 GMT</validNotBefore>
<validNotAfter>Apr 17 13:51:18 2021 GMT</validNotAfter>
</ns2:communicationCertificate>

```

Figure 18: componentList (ENUM)

```

<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<componentList xmlns:ns2="http://automatedMediaLibrary/">
  <component name="component name"> <!-- A list of one or more components -->
    <element name="component element name">
      <entry key="1" value="Connectivity"/> <!-- A list of one or more entry elements, which are key,
value pairs -->
    </element>
  </component>
</componentList>

```

Figure 19: certificateInformation

```

<?xml version="1.0" encoding="UTF-8"?>
<ns2:certificateInformation xmlns:ns2="http://automatedMediaLibrary/">
  <countryCode>US</countryCode>
  <state>Colorado</state>
  <locality>Denver</locality>
  <organization>DVT</organization>
  <organizationalUnit>DVT</organizationalUnit>
  <commonName>Your Company Name</commonName>
  <emailAddress>E-mail address</emailAddress>
</ns2: certificateInformation >

```

Figure 20: contactInformation

```

<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:contactInformation xmlns:ns2="http://automatedMediaLibrary/">
  <!-- each element can have a maximum of 256 characters -->
  <name>The contact's full name or first name if the lastName element is used</name>
  <lastName>The surname or last name of the contact</lastName> <!-- This field was added so the
above element "name" could be used as a first name of the contact and this element could be used as a
last name of the contact. If this element is empty or null, the library assumes the name element contains
the full name of the contact -->
  <company>Company name</company>
  <phone>Contact phone number</phone>
  <email>Contact e-mail address</email>
  <description>A description of the library...</description>
  <address1>Unit 15</address1>
  <address2>1600 Pen Avenue</address2>
  <city>Sydney</city>
  <stateOrProvince>New South Wales</stateOrProvince>
  <zipCode>The city zip code</zipCode>

```

```
<country>Australia</country>
</ns2:contactInformation>
```

Figure 21: coordinate

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:coordinate xmlns:ns2="http://automatedMediaLibrary/">
  <frame>1</frame>
  <!--
i3/i6 – Always 1
l6k – 0 through number of frames/modules
-->
  <rack>1</rack>
  <!--
i3/i6.- Always 1
l6k, 1 back side, 2 door side
-->
  <section>0</section>
  <!--
i3/i6 - vertical location within the library module stack, with control module referencing section 0, and any
3U increments above or below CM section 0 being identified by positive, or negative integer respectively
l6k – A row of magazines or drives in a rack, rack 1 (1 – 10 storage) (1 – 12 drives), .
  <column>1</column>
  <!--
i3/i6 - magazine/bay column location, 1 to 5 in left magazine, 6 to 10 for right side magazine, and 11 for
rear drive bay column
l6k – A column of magazines or drives in a rack. (1 – 10)
-->
  <row>1</row>
  <!--
i3/i6 - magazine slot, or drive location within column, bay, counting bottom up
l6k – Magazine slots or drive location
-->
  <type>2</type> <!-- 0(N/A), 1(Robot), 2(Storage), 3(IE), 4(Drive), 5(XIE), 6(Cleaning) -->
</ns2:coordinate>
```

Figure 22: crossPartitionMovesList

```
<?xml version="1.0" encoding="UTF-8"?>
<ns2:crossPartitionMovesList xmlns:ns2="http://automatedMediaLibrary/">
  <crossPartitionMoves/> <!-- A list of crossPartitionMoves objects -->
</ns2:crossPartitionMovesList>
```

Figure 23: crossPartitionMoves

```
<?xml version="1.0" encoding="UTF-8"?>
<ns2:crossPartitionMoves xmlns:ns2="http://automatedMediaLibrary/">
  <barcode>barcode</barcode>
  <sourcePartition>sourcePartition</sourcePartition>
  <sourcePartitionType>Standard</sourcePartitionType>
  <!--
"Unknown",
"Standard",
"EDLM",
"AMP",
"Active Vault"
```

```

-->
<sourceElementAddress>250</sourceElementAddress>
<destinationPartition>destinationPartition</destinationPartition>
<destinationPartitionType>destinationPartition</destinationPartitionType>
<!--
"Unknown",
"Standard",
"EDLM",
"AMP",
"Active Vault"
-->
<destinationElementAddress>4096</destinationElementAddress>
<dateTime>2001-12-31 12:00:00</dateTime>
</ns2:crossPartitionMoves>

```

Figure 24: dateTime

```

<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:dateTime xmlns:ns2="http://automatedMediaLibrary/">
  <date>2012-08-14</date>
  <time>21:34:02</time>
  <datetime>2012-08-14 21:34:02 -0600</datetime>
  <timezone>America/Denver</timezone>
  <itime>1345001642141</itime> <!-- time in seconds since EPOCH -->
</ns2:dateTime>

```

Figure 25: detailedDriveActivityStatistics

```

<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:detailedDriveActivityStatistics xmlns:ns2="http://automatedMediaLibrary/">
  <drive> <!-- One of these for each drive installed in the library -->
    <physicalSerialNumber>1210007896</physicalSerialNumber>
    <logicalSerialNumber>F001397049</logicalSerialNumber>
    <partition>LL1</partition> <!-- NULL if the drive does not belong to a partition -->
    <driveActivityStatisticsList>
      <driveActivityStatistics/> <!-- 24 of these, see Figure 29: driveActivityStatistics -->
    </driveActivityStatisticsList>
  </drive>
</ns2:detailedDriveActivityStatistics>

```

Figure 26: DNS

```

<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:DNS xmlns:ns2="http://automatedMediaLibrary/">
  <ipAddress>10.20.88.2</ipAddress>
  <ipAddress>192.168.23.5</ipAddress>
</ns2:DNS>

```

Figure 27: driveList

```

<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:driveList xmlns:ns2="http://automatedMediaLibrary/">
  <drive/> <!-- A list of drive objects, see Figure 28: drive -->
</ns2:driveList>

```

Figure 28: drive

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:drive xmlns:ns2="http://automatedMediaLibrary/">
  <physicalSerialNumber>physicalSerialNumber</physicalSerialNumber>
  <logicalSerialNumber>logicalSerialNumber</logicalSerialNumber>
  <address>address</address>      <!-- WWPN -->
  <coordinate /> See Figure 21: coordinate
  <elementAddress>256</elementAddress> <!-- Logical element address -->
  <firmwareVersion>firmwareVersion</firmwareVersion>
  <type>
    <domainType>3</domainType>
  <!--
0(Unknown),
3(LTO2),
4(LTO3),
5(LTO4),
6(LTO5),
7(LTO6),
8(LTO7),
554(Mixed Types)
-->
    <vendor>IBM or HP</vendor>
    <productId>Ultrium 6-SCSI</productId>
    <sledType>1</sledType>
  <!--
0(Unknown),
1(Standard),
2(EDLM)
-->
    <interface>1</interface>
  <!--
0(Unknown),
1(SCSI),
2(Fibre),
3(SAS)
-->
    <formFactor>FH or HH</formFactor>
  </type>
  <mode>0</mode> <!-- 1(Online), 2(Offline) -->
  <state>1</state>
  <!--
1(Varied On),
2(Varied Off),
3(Pending Status Change)
-->
    <status>0</status>
  <!--
0(Unknown),
1(Good),
2(Failed),
3(Degraded),
4(Not Installed),
5(Initializing),
6(Not Ready)
-->
```

```

<owner>Owning partition or NULL</owner>
<settings>
  <controlPath>
    <primary>true</primary>
    <type>1</type>
  <!--
  1(None),
  2(Standard/CP),
  3(Basic/CPF),
  4(Advanced/ACPF),
  5(Multi Control Path),
  6(Advanced Control Path IBM)
  -->
    <subType>1</subType>
  <!--
  1(None),
  2(Active),
  3(Standby)
  -->
    </controlPath>
    <dataPath>1</dataPath>
  <!--
  1(None), No data path failover configured.
  2(Standard), Basic failover configured, (uses NPIV). Only applies to HP LTO drives
  3(Advanced), This failover requires a driver (IBM or HP) depending on the drives configured.
  4(MultiPath) i3/i6 only, i6k enables both ports for multi-path by default if drive is SNW licensed
  -->
    <encryption>
      <method>0</method>
    <!--
    0(None),
    1(AME), Application-managed
    2(LME), Library-managed
    4(SME) System (device driver) managed
    -->
      <fips>true</fips>
    </encryption>
    <ipAddress>10.10.3.50</ipAddress>
    <bladeCoordinate/> <!-- See Figure 21: coordinate -->
    <bladeAttachedType>0</bladeAttachedType>
  <!--
  0(None),
  1(FC IO Blade),
  2(EEB),
  4(NAS/LTFS Blade) <!-- i3/i6 only -->
  -->
    <license>7</license>
  <!--
  7(EKM),
  11(SNW – i6K Path Failover/native Storage Networking)
  15(Path Failover - i3/i6)
  16(Advanced Path Failover - i3/i6)
  17(SKM - i3/i6)
  -->
  </settings>
  <barcode>media barcode if drive is loaded</barcode>

```

```

<mediaHomeCoordinate>The slot's SCSI source/home coordinate</ mediaHomeCoordinate> <!-- If
media not loaded in the drive this filed will be null -->
<sledSerialNumber>sledSerialNumber</sledSerialNumber>
<sledBootFirmwareVersion>sledBootFirmwareVersion</sledBootFirmwareVersion>
<sledAppFirmwareVersion>sledAppFirmwareVersion</sledAppFirmwareVersion>
<portCount>0</portCount>
</ns2:drive>

```

Figure 29: driveActivityStatistics

```

<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:driveActivityStatisticsList xmlns:ns2="http://automatedMediaLibrary/">
  <driveActivityStatistics>
    <hourOfDay>16</hourOfDay> <!-- 23 hours ago -->
    <mbRead>0</mbRead>
    <mbWritten>5677</mbWritten>
    <mountCount>2</mountCount>
  </driveActivityStatistics>
  <driveActivityStatistics>
    <hourOfDay>17</hourOfDay> <!-- 22 hours ago -->
    <mbRead>0</mbRead>
    <mbWritten>22000</mbWritten>
    <mountCount>4</mountCount>
  </driveActivityStatistics>
  <driveActivityStatistics>
    <hourOfDay>18</hourOfDay> <!-- 21 hours ago -->
    <mbRead>44567</mbRead>
    <mbWritten>0</mbWritten>
    <mountCount>4</mountCount>
  </driveActivityStatistics>
  <driveActivityStatistics>
    <hourOfDay>19</hourOfDay>
    <mbRead>0</mbRead>
    <mbWritten>0</mbWritten>
    <mountCount>0</mountCount>
  </driveActivityStatistics>
  <driveActivityStatistics>
    <hourOfDay>20</hourOfDay>
    <mbRead>0</mbRead>
    <mbWritten>0</mbWritten>
    <mountCount>0</mountCount>
  </driveActivityStatistics>
  <driveActivityStatistics>
    <hourOfDay>21</hourOfDay>
    <mbRead>0</mbRead>
    <mbWritten>562209</mbWritten>
    <mountCount>5</mountCount>
  </driveActivityStatistics>
  <driveActivityStatistics>
    <hourOfDay>22</hourOfDay>
    <mbRead>0</mbRead>
    <mbWritten>3399</mbWritten>
    <mountCount>3</mountCount>
  </driveActivityStatistics>
  <driveActivityStatistics>
    <hourOfDay>23</hourOfDay>

```

```

    <mbRead>0</mbRead>
    <mbWritten>0</mbWritten>
    <mountCount>0</mountCount>
</driveActivityStatistics>
<driveActivityStatistics>
  <hourOfDay>0</hourOfDay>
  <mbRead>0</mbRead>
  <mbWritten>0</mbWritten>
  <mountCount>0</mountCount>
</driveActivityStatistics>
<driveActivityStatistics>
  <hourOfDay>1</hourOfDay>
  <mbRead>0</mbRead>
  <mbWritten>0</mbWritten>
  <mountCount>0</mountCount>
</driveActivityStatistics>
<driveActivityStatistics>
  <hourOfDay>2</hourOfDay>
  <mbRead>0</mbRead>
  <mbWritten>0</mbWritten>
  <mountCount>0</mountCount>
</driveActivityStatistics>
<driveActivityStatistics>
  <hourOfDay>3</hourOfDay>
  <mbRead>0</mbRead>
  <mbWritten>0</mbWritten>
  <mountCount>0</mountCount>
</driveActivityStatistics>
<driveActivityStatistics>
  <hourOfDay>4</hourOfDay>
  <mbRead>0</mbRead>
  <mbWritten>0</mbWritten>
  <mountCount>0</mountCount>
</driveActivityStatistics>
<driveActivityStatistics>
  <hourOfDay>5</hourOfDay>
  <mbRead>0</mbRead>
  <mbWritten>0</mbWritten>
  <mountCount>0</mountCount>
</driveActivityStatistics>
<driveActivityStatistics>
  <hourOfDay>6</hourOfDay>
  <mbRead>0</mbRead>
  <mbWritten>0</mbWritten>
  <mountCount>0</mountCount>
</driveActivityStatistics>
<driveActivityStatistics>
  <hourOfDay>7</hourOfDay>
  <mbRead>0</mbRead>
  <mbWritten>0</mbWritten>
  <mountCount>0</mountCount>
</driveActivityStatistics>
<driveActivityStatistics>
  <hourOfDay>8</hourOfDay>
  <mbRead>344</mbRead>
  <mbWritten>0</mbWritten>

```



```

    <mountCount>2</mountCount>
  </driveActivityStatistics>
<driveActivityStatistics>
  <hourOfDay>9</hourOfDay>
  <mbRead>0</mbRead>
  <mbWritten>0</mbWritten>
  <mountCount>0</mountCount>
</driveActivityStatistics>
<driveActivityStatistics>
  <hourOfDay>10</hourOfDay>
  <mbRead>0</mbRead>
  <mbWritten>0</mbWritten>
  <mountCount>0</mountCount>
</driveActivityStatistics>
<driveActivityStatistics>
  <hourOfDay>11</hourOfDay>
  <mbRead>0</mbRead>
  <mbWritten>0</mbWritten>
  <mountCount>0</mountCount>
</driveActivityStatistics>
<driveActivityStatistics>
  <hourOfDay>12</hourOfDay>
  <mbRead>0</mbRead>
  <mbWritten>0</mbWritten>
  <mountCount>0</mountCount>
</driveActivityStatistics>
<driveActivityStatistics>
  <hourOfDay>13</hourOfDay> <!-- 2 hours ago -->
  <mbRead>0</mbRead>
  <mbWritten>0</mbWritten>
  <mountCount>0</mountCount>
</driveActivityStatistics>
<driveActivityStatistics>
  <hourOfDay>14</hourOfDay> <!-- 1 hour ago -->
  <mbRead>0</mbRead>
  <mbWritten>0</mbWritten>
  <mountCount>0</mountCount>
</driveActivityStatistics>
<driveActivityStatistics>
  <hourOfDay>15</hourOfDay> <!-- Current hour of day -->
  <mbRead>23344</mbRead>
  <mbWritten>0</mbWritten>
  <mountCount>4</mountCount>
</driveActivityStatistics>
</ns2:driveActivityStatisticsList>

```

Figure 30: driveCleaningList

```

<?xml version="1.0" encoding="UTF-8"?>
<ns2:driveCleaningList xmlns:ns2="http://automatedMediaLibrary/">
  <driveCleaning/> <!-- A list of driveCleaning objects -->
</ns2:driveCleaningList>

```

Figure 31: driveCleaning

```

<?xml version="1.0" encoding="UTF-8"?>

```

```

<ns2:driveCleaning xmlns:ns2="http://automatedMediaLibrary/">
  <dateTime>2001-12-31T12:00:00</dateTime>
  <barcode>barcode</barcode>
  <mediaCoordinate /> <!-- The coordinate where the media came from -->
  <driveSerialNumber>driveSerialNumber</driveSerialNumber>
  <driveCoordinate /> <!-- The coordinate of the drive that was cleaned -->
  <status>status</status> <!-- Result of the cleaning operation -->
  <cleaningType>cleaningType</cleaningType> <!-- Manual or Automatic -->
  <expired>true</expired> <!-- Is the cleaning media expired -->
  <useCount>0</useCount> <!-- How many times this media was used to clean a drive -->
</ns2:driveCleaning>

```

Figure 32: driveCleaningPolicyList

```

<?xml version="1.0" encoding="UTF-8"?>
<ns2:driveCleaningPolicyList xmlns:ns2="http://automatedMediaLibrary/">
  <driveCleaningPolicy/> <!-- A list of driveCleaningPolicy objects -->
</ns2:driveCleaningPolicyList>

```

Figure 33: driveCleaningPolicy

```

<?xml version="1.0" encoding="UTF-8"?>
<ns2:driveCleaningPolicy xmlns:ns2="http://automatedMediaLibrary/">
  <!-- The partition the policy applies too. -->
  <partition>partition name</partition>
  <!-- Determines whether the drives in the partition are being automatically cleaned by the library -->
  <enabled>true</enabled>
  <!-- The following indicates if cleaning is managed by the host application. If true, then suppress drive
cleaning request RAS tickets
  -->
  <hostApplicationInitiated>>false</hostApplicationInitiated>
  <!-- Drive configured periodic cleaning interval setting -->
  <driveCleaning>
    <!-- The following option is only available for HP drives, to specify motion hours to elapse before
requesting periodic cleaning
    -->
    <motionTime>100</motionTime> <!-- 0, 100, 200, 400, 800 or 1000 -->
    <!-- The following option is only available for EDLM drives in an EDLM partition -->
    <mountCount>0</mountCount> <!-- 0, 10 or 25 -->
  </driveCleaning>
  <!-- Library configured periodic cleaning interval setting
  This feature is currently not supported. -->
  <libraryCleaning>
    <hour>0</hour>
    <dayOfWeek>0</dayOfWeek>
    <period>1</period>
  </libraryCleaning>
</ns2:driveCleaningPolicy>

```

Figure 34: driveLevelingPolicy

```

<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:driveLevelingPolicy xmlns:ns2="http://automatedMediaLibrary/">
  <partition>LL1</partition>
  <type>2</type>
  <firmwareFile/> <!-- A list of firmwareFile objects, see Figure 91: firmwareFile -->

```

```
</ns2:driveLevelingPolicy>
```

Figure 35: driveLogList

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:driveLogList xmlns:ns2=http://automatedMediaLibrary/>
  <driveLog/> <!-- A list of driveLog objects -->
</ns2:driveLogList>
```

Figure 36: driveLog

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:driveLog xmlns:ns2=http://automatedMediaLibrary/>
  <name>The log file name</name>
  <driveSerialNumber>1013000947</driveSerialNumber> <!-- The physical serial number of the drive or
'N/A' if unknown. -->
  <created>The date and time the log file was created</created>
  <size>The log file size, in bytes</size>
</ns2:driveLog>
```

Figure 37: drivePortList

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:drivePortList xmlns:ns2=http://automatedMediaLibrary/>
  <drivePorts/> <!-- A list of drivePorts objects, see Figure 38: drivePorts -->
</ns2:drivePortList>
```

Figure 38: drivePorts

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:drivePorts xmlns:ns2="http://automatedMediaLibrary/">
  <serialNumber>serialNumber</serialNumber> <!-- The drives logical serial number -->
  <physicalSerialNumber>serial number</physicalSerialNumber> <!-- The drive's physical serial number -
-->
  <ports/> <!-- A list of port objects, see Figure 158: port -->
</ns2:drivePorts>
```

Figure 39: driveSerialNumberList

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:driveSerialNumberList xmlns:ns2="http://automatedMediaLibrary/">
  <serialNumber>F00139603D</serialNumber> <!-- one or more serialNumber elements -->
</ns2:driveSerialNumberList>
```

Figure 40: driveUtilizationList

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:driveUtilizationList xmlns:ns2=http://automatedMediaLibrary/>
  <driveUtilization/> <!-- A list of driveUtilization objects -->
</ns2:driveUtilizationList>
```

Figure 41: driveUtilization

```
<?xml version="1.0" encoding="UTF-8"?>
<ns2:driveUtilization xmlns:ns2="http://automatedMediaLibrary/">
  <coordinate>
    <frame>1</frame>
```

```

    <rack>0</rack>
    <section>0</section>
    <column>0</column>
    <row>0</row>
    <type>4</type>
    <relations/>
  </coordinate>
  <driveSerialNumber>the drive's physical serial number</driveSerialNumber>
  <partition>partition name</partition>
  <mountTime>2001-12-31 12:00:00</mountTime>
  <unmountTime>2001-12-31 12:02:00</unmountTime>
  <mbRead>0</mbRead>
  <mbWrite>0</mbWrite>
  <barcode>barcode</barcode>
</ns2:driveUtilization>

```

Figure 42: edlmMediaList

```

<?xml version="1.0" encoding="UTF-8"?>
<ns2:edlmMediaList xmlns:ns2="http://automatedMediaLibrary/">
  <edlmMedia/> <!-- A list of edlmMedia objects -->
  <continueOnError /> <!-- Continue testing media despite media having failed already. -->
</ns2:edlmMediaList>

```

Figure 43: edlmMedia

```

<?xml version="1.0" encoding="UTF-8"?>
<ns2:edlmMedia xmlns:ns2="http://automatedMediaLibrary/">
  <barcode>ABC123000L6</barcode>
  <resultId>19</resultId> <!-- The id of the edlmMediaResult object -->
  <coordinate>
    <frame>1</frame>
    <rack>0</rack>
    <section>0</section>
    <column>0</column>
    <row>0</row>
    <type>1</type>
  </coordinate>
  <owner>owner</owner> <!-- Partition owning this media -->
  <testType>0</testType>
  <!--
0(None),
1(Quick Scan),
2(Normal Scan),
3(Full Scan)
-->
  <testPriority>0</testPriority>
  <!--
0(Immediate),
1(High),
2(Medium),
3(Low)
-->
  <testState>1</testState>
  <!--
0(Unknown),

```

```

1(Pending),
2(In Progress),
3(Complete),
4(Stopped),
5(Paused),
6(Resume)
-->
<testResult>3</testResult>
<!--
0(Not Complete),
1(Good),
2(Unsupported),
3(Suspect),
4(Failed)
-->
<lastTested>2001-12-31T12:00:00</lastTested> <!-- When was media last tested -->
<supported>true</supported>
<!-- Is media supported for EDLM Scan Test with the EDLM drives configured for testing. -->
</ns2:edlmMedia>

```

Figure 44: edlmMediaResultList

```

<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:edlmMediaResultList xmlns:ns2="http://automatedMediaLibrary/">
  <edlmMediaResult/> <!-- A list of edlmMediaResult objects -->
</ns2:edlmMediaResultList>

```

Figure 45: edlmMediaResult

```

<?xml version="1.0" encoding="UTF-8"?>
<ns2:edlmMediaResult xmlns:ns2="http://automatedMediaLibrary/">
  <id>0</id>
  <sessionId>0</sessionId>
  <barcode>barcode</barcode>
  <driveSerialNumber>driveSerialNumber</driveSerialNumber>
  <partition>LL1</partition> <!-- The partition that owns the media, if known. Otherwise 'N/A'. -->
  <mediaSerialNumber>1070748083</mediaSerialNumber>
  <testDate>2001-12-31 12:00:00</testDate>
  <startDate>2001-12-31 11:48:05</startDate>
  <testState>0</testState>
  <!--
0(Unknown) (i6k Only),
1(Pending),
2(In Progress),
3(Complete),
4(Stopped),
5(Paused),
6(Resume) (i6k Only)
-->
  <testType>0</testType>
  <!--
0(None),
1(Quick Scan),
2(Normal Scan),
3(Full Scan)
-->

```

```

    <testResult>0</status>
<!--
0(Not Complete) (i6k Only),
1(Good),
2(Unsupported),
3(Suspect),
4(Failed)
-->
    <staticTestStatus>0</staticTestStatus>
<!--
512(Test Completed),
513(Test Paused),
514(Test Pending),
515(Test Not Run),
516(Test In Progress)
1030(Stopped) (i3/i6 Only)
-->
    <dynamicTestStatus>0</dynamicTestStatus>
<!--
1024(Test Completed),
1025(Test Paused),
1026(Test Pending),
1027(Test Not Run),
1028(Test In Progress),
1029(Test Not Configured),
1030(Test Stopped) (i3/i6 Only)
-->
    <staticTestErrorCode>0</staticTestErrorCode>
<!--
768(Good),
769(N/A),
770(Failed to get CM data),
771(CM Hardware Failure),
772(99% EOL based on thread count),
773(99% EOL based on number of writes),
774(Uncorrected errors),
775(Load failure),
776(Unload failure),
777(Tape was removed),
778(No compatible drive found),
779(Invalid EOD status)
-->
    <dynamicTestErrorCode>0</dynamicTestErrorCode>
<!--
1280(Good),
1281(N/A),
1282(Failed to communicate to IO Blade),
1283Failed to receive scan data),
1284(Unexpected EOD, Possible corrupt CM),
1285(Unformatted tape),
1286(Failed to read tape data),
1287(Un-recovered read errors on tape),
1289(Corrupt data format),
1296(Tape experienced a mechanical error),
1297(Tape performance is severely degraded),
1298(Unable to load tape),

```

```

1299(Unable to unload tape),
1300(Tape is a cleaning cartridge),
1301(Cartridge memory fault encountered),
1302(Unknown media type detected),
1303(Scan was aborted),
1304(Drive reports no media present),
1305(Media is encrypted),
1312(Media is blank),
1313(Block size exceeds maximum),
1314(Media is a FUP tape),
1315(Failed to read the CM from the drive),
1316(Drive failure encountered while scanning the media),
1317(Drive communication failure) (i3/i6 Only),
1318(Test stopped) (i3/i6 Only),
1319(Uninitialized tape) (i3/i6 Only)
-->
</ns2:edlmResult>

```

Figure 46: edlmMediaScanTestList

```

<?xml version="1.0" encoding="UTF-8"?>
<ns2:edlmMediaScanTestList xmlns:ns2="http://automatedMediaLibrary/">
  <edlmMediaScanTest/> A list of edlmMediaScanTest objects
</ns2:edlmMediaScanTestList>

```

Figure 47: edlmMediaScanTest

```

<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:edlmMediaScanTest xmlns:ns2="http://automatedMediaLibrary/">
  <testDate>2016-05-25 09:53:15 -0600</testDate>
  <barcode>000340L4</barcode>
  <mediaSerialNumber>N/A</mediaSerialNumber>
  <partition>N/A</partition>
  <driveSerialNumber>GB120401FD</driveSerialNumber>
  <scanType>Quick</scanType>
  <result>Untested</result>
  <cmScanStatus>N/A</cmScanStatus>
  <cmScanAnalysis>N/A</cmScanAnalysis>
  <tapeScanStatus>Not Configured</tapeScanStatus>
  <tapeScanAnalysis>N/A</tapeScanAnalysis>
</ns2:edlmMediaScanTest>

```

Figure 48: edlmPolicyList

```

<?xml version="1.0" encoding="UTF-8"?>
<ns2:edlmPolicyList xmlns:ns2="http://automatedMediaLibrary/">
  <edlmPolicy/> A list of edlmPolicy objects
</ns2:edlmPolicyList>

```

Figure 49: edlmPolicy

```

<?xml version="1.0" encoding="UTF-8"?>
<ns2:edlmPolicy xmlns:ns2="http://automatedMediaLibrary/">
  <partitionName>partitionName</partitionName>
  <tapeAlert>
    <scanType>0</scanType> <!-- 0(None), 1(Quick), 2(Normal) and 3(Full) -->
    <count>0</count> <!-- The threshold count on when to do the scan -->
  </tapeAlert>
</ns2:edlmPolicy>

```

```

</tapeAlert>
<timeInterval> <!-- The interval is in days -->
  <quickScan>0</quickScan>
  <normalScan>0</normalScan>
  <fullScan>0</fullScan>
</timeInterval>
<onImport>0</onImport> <!-- Perform scan when media is imported 0(No Scan), 1(Quick), 2(Normal)
and 3(Full) -->
<scanPriority>0</scanPriority> <!-- 0(Immediate), 1(Low), 2(Medium), 3(High) -->
<concurrentScans>0</concurrentScans> <!-- The maximum number of concurrent scans allowed
(depends on the number of EDLM drives configured), 0 for No Limit and then 1 through N where N is the
number of EDLM drives installed -->
<continueOnError>true</continueOnError>
<disableRasTicketGeneration>true</disableRasTicketGeneration>
<externalPolicies>
  <externalApplicationServersName>StorNext server name</externalApplicationServersName>
  <mediaCopyPolicy>0</mediaCopyPolicy> <!-- 0(Disabled), 1(Bad Media), 2(Suspect Media), 3(Bad or
Suspect Media) -->
  <suspectCountScanType>0</suspectCountScanType> <!-- 0(None), 1(Quick), 2(Normal), 3(Full) -->
</externalPolicies>
<relations/>
</ns2:edlmPolicy>

```

Figure 50: edlmSessionList

```

<?xml version="1.0" encoding="UTF-8"?>
<ns2:edlmSessionList xmlns:ns2="http://automatedMediaLibrary/">
  </edlmSession> <!-- A list of edlmSession objects -->
</ns2:edlmSessionList>

```

Figure 51: edlmSession

```

<?xml version="1.0" encoding="UTF-8"?>
<ns2:edlmSession xmlns:ns2="http://automatedMediaLibrary/">
  <id>0</id>
  <startDate>2001-12-31 12:00:00</startDate>
  <endDate>2001-12-31 12:00:00</endDate>
  <state>0</state> <!-- 0(Unknown), 1(Complete), 2(Pending), 4(Paused), 8(In Progress), 16(Stopped) -->
  <goodCount>0</goodCount> <!-- The number of scans in the session that completed with good status -->
  <
    <suspectCount>0</suspectCount> <!-- The number of scans in the session that completed with suspect
status -->
    <badCount>0</badCount> <!-- The number of scans in the session that completed with bad status -->
    <notCompleteCount>0</notCompleteCount> <!-- The number of scans in the session that did not
complete -->
    <unsupportedCount>0</unsupportedCount> <!-- The number of scans in the session that were not
supported -->
    <continueOnError>true</continueOnError> <!-- Was the continue on error flag set for this session -->
    <estimatedCompletionTime>34</estimatedCompletionTime> <!-- The estimated time in minutes it will
take to complete the session scan tests (Added in i6k version 750) -->
  </ns2:edlmSession>

```

Figure 52: ekmMediaStatusList

```

<?xml version="1.0" encoding="UTF-8"?>
<ns2:ekmMediaStatusList xmlns:ns2="http://automatedMediaLibrary/">

```



```
< ekmMediaStatus/> A list of ekmMediaStatus objects
</ns2:ekmMediaStatusList>
```

Figure 53: ekmMediaStatus

```
<?xml version="1.0" encoding="UTF-8"?>
<ns2:ekmMediaStatus xmlns:ns2="http://automatedMediaLibrary/">
  <driveSerialNumber>driveSerialNumber</driveSerialNumber>
  <barcode>barcode</barcode>
  <mediaSerialNumber>mediaSerialNumber</mediaSerialNumber>
  <partitionName>partitionName</partitionName>
  <encrypted>true</encrypted>
  <mountTime>2001-12-31T12:00:00</mountTime>
  <unmountTime>2001-12-31T12:00:00</unmountTime>
</ns2:ekmMediaStatus>
```

Figure 54: ekmPartitionActivityList

```
<?xml version="1.0" encoding="UTF-8"?>
<ns2:ekmPartitionActivityList xmlns:ns2="http://automatedMediaLibrary/">
  < ekmPartitionActivity/> A list of ekmPartitionActivity objects
</ns2:ekmPartitionActivityList>
```

Figure 55: ekmPartitionActivity

```
<?xml version="1.0" encoding="UTF-8"?>
<ns2:ekmPartitionActivity xmlns:ns2="http://automatedMediaLibrary/">
  <partition>partition</partition>
  <method>method</method>
  <user>user</user>
  <loginFrom>loginFrom</loginFrom>
  <dateTime>2001-12-31T12:00:00</dateTime>
</ns2:ekmPartitionActivity>
```

Figure 56: ekmServersList

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:ekmServersList xmlns:ns2="http://automatedMediaLibrary/">
  <ekmServers/> <!-- A list of ekmServers objects -->
</ns2:ekmServersList>
```

Figure 57: ekmServers

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:ekmServers xmlns:ns2="http://automatedMediaLibrary/">
  </ekmServerType> <!-- 2(RKM), 4(KMIP), 8(QEKM), 16(SKM), 32(TKLM) -->
  <!-- Note: RKM is no longer supported -->
  <server>
    <hostName>10.20.9.18</hostName>
    <port>3801</port>
    <status>Active</status>
  </server>
  <server>
    <hostName>10.20.9.6</hostName>
    <port>3801</port>
    <status>Standby</status>
  </server>
```

```

    <ekmPathDiagnosticsInterval>0-60</ekmPathDiagnosticsInterval> <!-- 0-60 minutes, where 0
means disabled -->
    <ssl>>false</ssl>
</ns2:ekmServers>

```

Figure 58: ekmServerTestResultList

```

<?xml version="1.0" encoding="UTF-8"?>
<ns2:ekmServerTestResultList xmlns:ns2="http://automatedMediaLibrary/">
  </ekmServerTestResult> <!-- A list of ekmServerTestResult objects -->
</ns2:ekmServerTestResultList>

```

Figure 59: ekmServerTestResult

```

<?xml version="1.0" encoding="UTF-8"?>
<ns2:ekmServerTestResult xmlns:ns2="http://automatedMediaLibrary/">
  <server>server</server> <!-- The EKM server name/IP -->
  <test> <!-- The list of test objects -->
    <type>1</type> <!-- 1(Ping Test), 2(Path Test), 3(Configure Test) -->
    <result>1</result> <!-- 1(Passed), 2(Failed) -->
  </test>
</ns2:ekmServerTestResult>

```

Figure 60: elementList (ENUM)

```

<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<elementList xmlns:ns2="http://automatedMediaLibrary/">
  <component name="component name">
    <element name="element name"> <!-- One or more elements -->
      <entry key="1" value="Connectivity"/> <!-- One or more key value entry pairs -->
    </element>
  </component>
</elementList>

```

Figure 61: elementList

```

<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:elementList xmlns:ns2="http://automatedMediaLibrary/">
  <element/> <!-- A list of element objects -->
</ns2:elementList>

```

Figure 62: element

```

<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:element xmlns:ns2="http://automatedMediaLibrary/">
  <coordinate/> <!-- See Figure 21: coordinate -->
  <address>256</address> <!-- The logical SCSI element address -->
  <status>2</status>
<!--
1 (Not Installed),
2 (Accessible),
3 (Not Accessible)
-->
  <barcode></barcode>
  <owner>Test Partition</owner>
  <configuredType>0</configuredType> <!-- This field is currently not used and should be ignored. -->
  <shared>>true/false</shared> <!-- Deprecated, use ieStatus element instead. -->

```

```

    <ieStatus>0</ieStatus>
  <!--
0(None),
1(Shared),
2(System Partition)
This element is not supported on the i6k
-->
</ns2:element>

```

Figure 63: email

```

<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:email xmlns:ns2="http://automatedMediaLibrary/">
  <!-- A list of recipients -->
  <recipient>john.doe@company.com</recipient>
  <recipient>jane.doe@company.com</recipient>
  <comment>Needs your urgent attention</comment>
  </reportCriteria> <!-- Figure 171: reportCriteria -->
</ns2:email>

```

Figure 64: emailServer

```

<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:emailServer xmlns:ns2="http://automatedMediaLibrary/">
  <server>10.20.169.2</server>
  <accountName>john.doe</accountName>
  <accountPassword>secret_password</accountPassword>
  <senderEmailAddress>dvt8@quantum.com</senderEmailAddress>
  <authorize>>true</authorize>
  <testEmailAddress>john.doe@company.com</testEmailAddress>
</ns2:emailServer>

```

Figure 65: emailRecipientList

```

<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:emailRecipientList xmlns:ns2="http://automatedMediaLibrary/">
  <emailRecipient>
    <id>1</id> <!-- Automatically generated by the library -->
    <address>john.doe@company.com</address> <!-- e-mail address -->
  </emailRecipient>
</ns2:emailRecipientList>

```

Figure 66: emailRecipient

```

<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:emailRecipient xmlns:ns2="http://automatedMediaLibrary/">
  <id>1</id> <!-- Automatically generated by the library -->
  <address>john.doe@company.com</address> <!-- e-mail address -->
</ns2:emailRecipient>

```

Figure 67: emmc

```

<?xml version="1.0" encoding="UTF-8"?>
<ns2:emmc xmlns:ns2="http://automatedMediaLibrary/">
  <sectorUsage>Good</sectorUsage> <!-- Good, Warning, Alert and Degraded -->
  <spareBlocksUsage>Good</spareBlocksUsage> <!-- Good, Warning and Alert -->
</ns2:emmc>

```

Figure 68: entryList (ENUM)

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<entryList xmlns:ns2="http://automatedMediaLibrary/">
  <component name="component name">
    <element name="element name">
      <entry key="1" value="SCSI"/> <!-- One or more key value entry pairs -->
    </element>
  </component>
</entryList>
```

Figure 69: ethernetExpansionBladeList

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:ethernetExpansionBladeList xmlns:ns2="http://automatedMediaLibrary/">
  <ethernetExpansionBlade/> A list of ethernetExpansionBlade objects, see Figure 70:
ethernetExpansionBlade
</ns2:ethernetExpansionBladeList>
```

Figure 70: ethernetExpansionBlade

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:ethernetExpansionBlade xmlns:ns2="http://automatedMediaLibrary/">
  <blade/> See Figure 12: blade
  <ethernetExpansionBladePort/> A list of 6 ethernetExpansionBladePort objects, see Figure 71:
ethernetExpansionBladePort
</ns2:ethernetExpansionBlade>
```

Figure 71: ethernetExpansionBladePort

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:ethernetExpansionBladePort xmlns:ns2="http://automatedMediaLibrary/">
  <number>0</number>
  <linkStatus>linkStatus</linkStatus>
  <speed>0</speed>
  <duplex>duplex</duplex>
</ns2:ethernetExpansionBladePort>
```

Figure 72: externalApplicationList

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:externalApplicationList xmlns:ns2="http://automatedMediaLibrary/">
  </externalApplication> A list of externalApplication objects.
</ns2:externalApplicationList>
```

Figure 73: externalApplication

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:externalApplication xmlns:ns2="http://automatedMediaLibrary/">
  <name>snapi-2.0.1</name>
  <version>110i.EE002</version>
  <description>StorNext Plugin (3.5 to 4.1)</description>
</ns2:externalApplication>
```

Figure 74: externalApplicationServersList

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
```

```
<ns2:externalApplicationServersList xmlns:ns2="http://automatedMediaLibrary/">
  </externalApplicationServers> A list of externalApplicationServers objects
</ns2:externalApplicationServersList>
```

Figure 75: externalApplicationServers

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:externalApplicationServers xmlns:ns2="http://automatedMediaLibrary/">
  <name>StorNext</name>
  <server>
    <name>10.20.169.88</name>
    <port>61776</port>
  </server>
  <server>
    <name>10.20.9.18</name>
    <port>61776</port>
  </server>
  <externalApplicationName>snappy-2.0.1</externalApplicationName>
  <username>>false</username> <!-- The username to use with StorNext Web Services (Added in
750(i6k), i3/i6)-->
  <password>>false</password> <!-- The password to use with StorNext Web Services (Added in
750(i6k), i3/i6)-->
  <protocol>0</protocol> <!-- This indicates which protocol to use for Web Services communications,
(Added in 750(i6k), i3/i6)-->
  <!--
0(None),
1(HTTP),
2(HTTPS)
-->
</ns2:externalApplicationServersList>
```

Figure 76: fcBladeList

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:fcBladeList xmlns:ns2=http://automatedMediaLibrary/>
  <fcBlade/> A list of fcBlade objects, see Figure 77: fcBlade
</ns2:fcBladeList>
```

Figure 77: fcBlade

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:fcBlade xmlns:ns2=http://automatedMediaLibrary/>
  <blade/> See Figure 12: blade
  <wwnn>wwnn</wwnn>
  <status>1</status> <!-- 1(Unknown), 2(OK), 3(Warning), 4(Failed) -->
  <hostPortFailover>true</hostPortFailover>
  <fcBladePort/> A list of 6 fcBladePort objects, see Figure 85: fcBladePort
  <host/> A list of host objects, see Figure 100: host
</ns2:fcBlade>
```

Figure 78: fcBladeHostsList

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:fcBladeHostsList xmlns:ns2="http://automatedMediaLibrary/">
  <fcBladeHosts/> <!-- A list of fcBladeHosts objects -->
</ns2:fcBladeHostsList>
```

Figure 79: fcBladeHosts

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:fcBladeHosts xmlns:ns2="http://automatedMediaLibrary/">
  <blade/> <!-- One blade object, See Figure 12: blade for details -->
  <host/> <!-- 0-n host objects, See Figure 100: host for details -->
</ns2:fcBladeHosts>
```

Figure 80: fcBladeZoning

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:fcBladeZoning xmlns:ns2="http://automatedMediaLibrary/">
  <bladeSerialNumber>AMQ002639-0009</bladeSerialNumber>
  <targetPort>
    <portNumber>1</portNumber>
    <initiatorPort>
      <portNumber>3</portNumber>
      <accessEnabled>true</accessEnabled>
    </initiatorPort>
    <initiatorPort>
      <portNumber>4</portNumber>
      <accessEnabled>true</accessEnabled>
    </initiatorPort>
    <initiatorPort>
      <portNumber>5</portNumber>
      <accessEnabled>>false</accessEnabled>
    </initiatorPort>
    <initiatorPort>
      <portNumber>6</portNumber>
      <accessEnabled>true</accessEnabled>
    </initiatorPort>
  </targetPort>
  <targetPort>
    <portNumber>2</portNumber>
    <initiatorPort>
      <portNumber>3</portNumber>
      <accessEnabled>true</accessEnabled>
    </initiatorPort>
    <initiatorPort>
      <portNumber>4</portNumber>
      <accessEnabled>true</accessEnabled>
    </initiatorPort>
    <initiatorPort>
      <portNumber>5</portNumber>
      <accessEnabled>>false</accessEnabled>
    </initiatorPort>
    <initiatorPort>
      <portNumber>6</portNumber>
      <accessEnabled>true</accessEnabled>
    </initiatorPort>
  </targetPort>
</ns2:fcBladeZoning>
```

Figure 81: fcHostPortFailoverList

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
```

```
<ns2:fcHostPortFailoverList xmlns:ns2="http://automatedMediaLibrary/">
  </fcHostPortFailover> <!-- A list of fcHostPortFailover objects, one for each blade configured. -->
</ns2:fcHostPortFailoverList>
```

Figure 82: fcHostPortFailover

```
<fcHostPortFailover>
  <bladeSerialNumber>AMQ002639-0009</bladeSerialNumber>
  <configuration>
    <enabled>true</enabled> <!-- Is host port failover enabled -->
    <linkDownDelayTime>3</linkDownDelayTime> <!-- Set the time in seconds before link down
status applies, 0 - 2147483648 -->
    <primaryPort>1</primaryPort> <!-- 1 or 2 -->
  </configuration>
  <port> <!-- If host port failover is enabled, you will get 2 port objects, if it is not you will get no port
objects -->
    <number>1</number> <!-- The host (target) port number, can be 1 or 2 -->
    <mode>0</mode> <!-- 0(Online), 1(Offline) or 2(N/A) -->
    <status>0</status> <!-- 0(None), 1(Link Down) or 2(Link Error) -->
    <intervention>>false</intervention> <!-- Weather port needs intervention to be re-enabled to bring it
back online -->
  </port>
</fcHostPortFailover>
```

Figure 83: fcLunMapping

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:fcLunMapping
  xmlns:ns2="http://automatedMediaLibrary/"
  <fcBladeHost/> <!-- See Figure 79: fcBladeHost -->
  <mapping> <!-- 0 or more mapping elements -->
    <deviceName>PartitionTest</deviceName>
    <deviceSerialNumber>273190049_LL2</deviceSerialNumber>
    <deviceType>2</deviceType>
  <!--
0(Unknown),
1(Drive),
2(Partition)
-->
    <internalLun>4</internalLun>
  <!-- The LUN number of the device that is used internally by the blade, this is not user configurable.. -->
    <externalLun>1</externalLun>
  <!-- The LUN number that is used by an external host to access the device, this number is user
configurable. The valid LUN number range is 0 to 255 -->
  </mapping>
</ns2:fcLunMapping>
```

Figure 84: fcBladePortList

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:fcBladePortList xmlns:ns2="http://automatedMediaLibrary/"
  <bladeSerialNumber>AMQ002639-0009</ bladeSerialNumber >
  <fcBladePort/> <!-- A list (6) of fcBladePort objects -->
</ns2:fcBladePortList>
```

Figure 85: fcBladePort

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:fcBladePort xmlns:ns2="http://automatedMediaLibrary/">
  <wwpn>wwpn</wwpn>
  <number>1</number>
  <!-- 1 through 6, where ports 1 and 2 are target ports which can only be connected to a host or switch and
  3,4,5 and 6 are initiator ports and can only be connected to drives. -->
  <softLoop>true</softLoop> <!-- true or false, if set to true the loop id will be automatically configured -->
  <loopId>0</loopId> <!-- 0 – 125, if softLoop is set to true, this value is ignored -->
  <mode>0</mode>
  <!--
  1(Private Target),
  2(Private Initiator),
  3(Private Target and Initiator),
  17(Public Target),
  18(Public Initiator),
  19(Public Target and Initiator)
  -->
  <topology>0</topology>
  <!--
  0(Loop),
  1(Point to Point),
  2(Loop Preferred)
  -->
  <autoSpeed>false</autoSpeed> <!-- True or False -->
  <speed>0</speed> <!-- 0(Auto), 1, 2 or 4 -->
  <frameSize>512</frameSize> <!-- 512, 1024 or 2048 -->
  <status>0</status>
  <!--
  0(Configure Wait),
  1(Loop Initiate),
  2(Login),
  3(Ready),
  4(Lost Sync),
  5(Error),
  6(Re-initiate),
  7(Non Part),
  8(Failed)
  -->
</ns2:fcBladePort>
```

Figure 86: firmwareList

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:firmwareList xmlns:ns2="http://automatedMediaLibrary/">
  <lastInstallDate>2014-06-02 09:57:50 -0600</lastInstallDate>
  <firmware/> <!-- A list of firmware objects -->
</ns2:firmwareList>
```

Figure 87: firmware

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:firmware xmlns:ns2="http://automatedMediaLibrary/">
  <component>Current</component> <!-- Values are 'Current' (i6k only), Rollback' and 'Uploaded' -->
  <version>665H.TS07401</version> <!-- The firmware/software version -->
```



```
<signingStatus>Signed by Production Certificate</signingStatus>
</ns2:firmware>
```

Figure 88: firmwareFileList

```
<?xml version="1.0" encoding="UTF-8"?>
<ns2:firmwareFileList xmlns:ns2="http://automatedMediaLibrary/">
  <firmwareFile/> A list of firmwareFile objects, see Figure 91: firmwareFile
</ns2:firmwareFileList>
```

Figure 89: firmwareUpdateList

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:firmwareUpdateList xmlns:ns2="http://automatedMediaLibrary/">
  </firmwareUpdate> A list of firmwareUpdate objects.
</ns2:firmwareUpdateList>
```

Figure 90: firmwareUpdate

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:firmwareUpdate xmlns:ns2="http://automatedMediaLibrary/">
  <serialNumber>HU19487U51</serialNumber>
  </firmwareFile> A firmwareFile object
</ns2:firmwareUpdate>
```

Figure 91: firmwareFile

```
<?xml version="1.0" encoding="UTF-8"?>
<ns2:firmwareFile xmlns:ns2="http://automatedMediaLibrary/">
  <name>name</name>
  <version>version</version>
  <vendor>vendor</vendor> <!-- HP or IBM -->
  <type>type</type> <!-- LTO2, LTO3, LTO4, LTO5, LTO6 or LTO7 -->
  <formFactor>HH or FH</formFactor> <!-- HH (Half Height) or FH (Full Height) -->
  <interface>Fibre</interface> <!-- Fibre or SAS -->
</ns2:firmwareFile>
```

Figure 92: firmwareStatusList

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:firmwareStatusList xmlns:ns2="http://automatedMediaLibrary/">
  <updateState>2</updateState> <!-- 0(None), 1(Pending), 2(In Progress), 3(Canceling), 4(Canceled),
5(Success), 6(Failure) -->
  </firmwareStatus/> A list of firmwareStatus objects, see Figure 95: firmwareStatus
</ns2:firmwareStatusList>
```

Figure 93: frameList

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:frameList xmlns:ns2="http://automatedMediaLibrary/">
  <frame/> A list of frame objects
</ns2:frameList>
```

Figure 94: frame

```
<?xml version="1.0" encoding="UTF-8"?>
<ns2:frame xmlns:ns2="http://automatedMediaLibrary/" xmlns:xsi="http://www.w3.org/2001/XMLSchema-
instance" xsi:schemaLocation="http://automatedMediaLibrary/ ../xsd/system.xsd ">
```

```

<id>0</id>
<type>1</type>
<serialNumber>serialNumber</serialNumber>
<HDDM>>true</HDDM>
<HDDMLocalMode>>true</HDDMLocalMode>
<rack1>
  <driveCount>0</driveCount>
  <usedDriveCount>0</usedDriveCount>
  <storageSegmentCount>0</storageSegmentCount>
  <usedStorageSegmentCount>0</usedStorageSegmentCount>
  <usedXieSegmentCount>0</usedXieSegmentCount>
  <iobCount>0</iobCount>
  <cmbCount>0</cmbCount>
  <eebCount>0</eebCount>
</rack1>
<rack2>
  <storageSegmentCount>0</storageSegmentCount>
  <usedStorageSegmentCount>0</usedStorageSegmentCount>
  <usedXieSegmentCount>0</usedXieSegmentCount>
  <ie>0</ie>
  <ieSegmentCount>0</ieSegmentCount>
  <usedIeSegmentCount>0</usedIeSegmentCount>
</rack2>
<relations/>
</ns2:frame>

```

Figure 95: firmwareStatus

```

<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:firmwareStatus xmlns:ns2="http://automatedMediaLibrary/">
  <component>Drive SN: HU19487U51</component>
  <status>In Progress</status>
</ns2:firmwareStatus>

```

Figure 96: heartbeatNotificationList

```

<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:heartbeatNotificationList xmlns:ns2="http://automatedMediaLibrary/">
  <heartbeatNotification/> A list of heartbeatNotification objects
</ns2:heartbeatNotificationList>

```

Figure 97: heartbeatNotification

```

<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:heartbeatNotification xmlns:ns2="http://automatedMediaLibrary/">
  <id>1</id>
  <interval>60</interval> <!-- Interval in minutes -->
  <emailAddress>john.doe@company.com</emailAddress> <!-- Who to send the notification too. -->
</ns2:heartbeatNotification>

```

Figure 98: driveMediaHeatMapList

```

<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:driveMediaHeatMapList xmlns:ns2="http://automatedMediaLibrary/">
  <driveMediaHeatMap> <!-- One or more driveMediaHeatMap objects -->
    <driveSerialNumber>1013000426</driveSerialNumber> <!-- The drives physical serial number -->
    <barcode>001323L6</barcode> <!-- The media barcode -->
  </driveMediaHeatMap>
</ns2:driveMediaHeatMapList>

```

```

    <totalDriveMountCount>1</totalDriveMountCount> <!-- The total number of mounts performed by
this media in this drive -->
    <totalAlertCount>3</totalAlertCount> <!-- the total number of tape alerts for this media and drive
combination -->
    <alert> <!-- 0-n alert objects -->
        <type>55</type> <!-- tape alert number, 1, 2, 3, 4, 5, 6, 30, 31, 39, 55, 56 -->
        <count>1</count> <!-- How many of this type -->
    </alert>
    <alert>
        <type>4</type>
        <count>1</count>
    </alert>
    <alert>
        <type>39</type>
        <count>1</count>
    </alert>
</driveMediaHeatMap>
</ns2:driveMediaHeatMapList>

```

Figure 99: hostList

```

<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:hostList xmlns:ns2="http://automatedMediaLibrary/">
  <host/> A list of host objects, see Figure 100: host
</ns2:hostList>

```

Figure 100: host

```

<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:host xmlns:ns2="http://automatedMediaLibrary/">
  <name>Test</name> <!-- The host name cannot be more than 32 characters -->
  <type>2</type>
<!--
0(Unknown),
1(WINDOWS),
2(AIX),
3(IRIX),
4(SOLARIS),
5(HP-UX),
6(NETWARE),
7(GATEWAY),
8(SWITCH),
9(GENERIC),
10(AS400),
11(UNISYS),
12(LINUX),
13(FCR-2),
14(PV-136T-FC),
15(HP-V2) -->
  <mode>0</mode>
<!--
0(Offline),
1(Online)
-->
  <WWPN>12345678:ABCDABCD</WWPN>
<!-- The World Wide Port Name of the HBA on the host -->

```

```

    <port>Port Number</port>
<!-- The port number of HBA on the host, this will default to 0. Used by Scalar i6k FC IO Blade hosts. -->
</ns2:host>

```

Figure 101: ieSlots

```

<?xml version="1.0" encoding="UTF-8"?>
<ns2:ieSlots xmlns:ns2="http://automatedMediaLibrary/">
  <slotCount>0</slotCount> <!-- The number of ie slots configured -->
  <assignmentMode>1</assignmentMode> <!-- 1(Manual), 2(Automatic) -->
</ns2:ieSlots>

```

Figure 102: ieStationList

```

<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:ieStationList xmlns:ns2="http://automatedMediaLibrary/">
  <ieStation/> A list of ieStation objects, see Figure 103: ieStation
</ns2:ieStation>

```

Figure 103: ieStation

```

<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:ieStation xmlns:ns2="http://automatedMediaLibrary/">
  <number>0</number>
  <coordinate/> See Figure 21: coordinate
  <slotCount>0</slotCount>
  <opened>>false</opened>
  <status>1</status>          <!-- 1(locked), 2(unlocked) -->
  <mode>0</mode>             <!-- 1(Online), 2(Offline) -->
  <state>1</state>          <!-- 1(Varied On), 2(Varied Off) -->
</ns2:ieStation>

```

Figure 104: internalNetwork

```

<?xml version="1.0" encoding="UTF-8"?>
<ns2:internalNetwork xmlns:ns2="http://automatedMediaLibrary/">
  <current>192.19.240.0</current>
  <options>10.247.240.0</options> <!-- One or more options elements. For i3/i6 the available options are
10.247.240.0, 172.29.240.0, 192.168.240.0, 192.19.240.0 -->
</ns2:internalNetwork>

```

Figure 105: inventoryTask

```

<?xml version="1.0" encoding="UTF-8"?>
<ns2:inventoryTask xmlns:ns2="http://automatedMediaLibrary/">
  <partitionName>LL1</partitionName> <!-- The partition name or NULL for physical library inventory -->
  <offline>>true</offline> <!-- Take the partition/physical library offline while doing the inventory. You should
almost always set this to true -->
  <startElement>2048</startElement>
  <elementCount>2058</elementCount>
</ns2:inventoryTask>

```

Figure 106: ldap

```

<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:ldap
  xmlns:ns2="http://automatedMediaLibrary/">
  <enabled>>true</enabled>

```

```

<primaryServer>10.20.170.3</primaryServer>
<alternateServer>10.20.170.4</alternateServer>
<serverPort>389</serverPort> <!-- 389 (Standard port), 636 (Secure port) -->
<secureMode>1</secureMode> <!-- 1(LDAP standard), 2(LDAPS, TLS connection), 3(StartTLS, start a
TLS session within an already established LDAP connection -->
<searchUser>cn=administrator,cn=Users,dc=hyjal,dc=hw,dc=quantum,dc=com</searchUser>
<searchUserPassword></searchUserPassword>
<usersContext>cn=Users,dc=hyjal,dc=hw,dc=quantum,dc=com</usersContext>
<groupContext>cn=Users,dc=hyjal,dc=hw,dc=quantum,dc=com</groupContext>
<libraryAccessGroupsUser>cn=people,cn=Users,dc=hyjal,dc=hw,dc=quantum,dc=com</libraryAccessGr
oupsUser>
<libraryAccessGroupsAdmin>cn=admins,cn=Users,dc=hyjal,dc=hw,dc=quantum,dc=com</libraryAccess
GroupsAdmin>
<!-- The following are used to support ldap-kerberos and will only be supported on non-Scalari6k products
-->
<realm>string</realm>
<keyDistributionCenter>string</keyDistributionCenter>
<domainMapping>string</domainMapping>
</ns2:ldap>

```

Figure 107: ldapTest

```

<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:ldapTest xmlns:ns2="http://automatedMediaLibrary/">
  <user>JIM</user> <!-- The LDAP user -->
  <password>*****</password> <!-- The LDAP user password -->
</ldapTest> <!-- The ldap object to test see Figure 106: ldap -->
</ns2:ldapTest>

```

Figure 108: libraryControlBladeList

```

<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:libraryControlBladeList xmlns:ns2=http://automatedMediaLibrary/>
  <libraryControlBlade/> A list of libraryControlBlade objects
</ns2:libraryControlBladeList>

```

Figure 109: libraryControlBlade

```

<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:libraryControlBlade xmlns:ns2=http://automatedMediaLibrary/>
  <blade/> See Figure 12: blade
  <fcBladePort/> A list of fcBladePort objects, see Figure 85: fcBladePort
</ns2:libraryControlBlade>

```

Figure 110: libraryDiagnosticTestList

```

<?xml version="1.0" encoding="UTF-8"?>
<ns2:libraryDiagnosticTestList xmlns:ns2="http://automatedMediaLibrary/">
  <libraryDiagnosticTest /> <!-- A list of libraryDiagnosticTest objects -->
</ns2:libraryDiagnosticTestList>

```

Figure 111: libraryDiagnosticTest

```

<?xml version="1.0" encoding="UTF-8"?>
<ns2:libraryDiagnosticTest xmlns:ns2="http://automatedMediaLibrary/">
  <name>Robot Test</name>
  <type>16</type>

```

```
</ns2:libraryDiagnosticTest>
```

Figure 112: libraryDiagnosticTestResult

```
<?xml version="1.0" encoding="UTF-8"?>
<ns2:libraryDiagnosticTestResult xmlns:ns2="http://automatedMediaLibrary/">
  <testType>12</testType>
  <startTime>2001-12-31T12:00:00</startTime>
  <endTime>2001-12-31T12:00:00</endTime>
  <state>2</state> <!-- 1(In Progress), 2(Pending), 3(Stopped), 4(Terminated), 5(Complete) -->
  <!-- A List of results for the given test type -->
  <result>
    <type>16</type> <!-- The test type, can be different from libraryDiagnosticTestResult.testType when
you run full IVT -->
    <element>1,1,1,1,1</element> <!-- i3/i6 only -->
    <description>ALIGNMENT MAGAZINE PASSED</description>
    <status>1</status> <!--0(Unknown), 1(Passed), 2(Warning), 3(Invalid), 4(Incomplete), 5(Failed),
6(Skipped) -->
  </result>
</ns2:libraryDiagnosticTestResult>
```

Figure 113: libraryDiagnosticTestSessionList

```
<?xml version="1.0" encoding="UTF-8"?>
<ns2:libraryDiagnosticTestSessionList xmlns:ns2="http://automatedMediaLibrary/">
  <libraryDiagnosticTestSession /> <!-- A list of libraryDiagnosticTestSession objects -->
</ns2:libraryDiagnosticTestSessionList>
```

Figure 114: libraryDiagnosticTestSession

```
<?xml version="1.0" encoding="UTF-8"?>
<ns2:libraryDiagnosticTestSession xmlns:ns2="http://automatedMediaLibrary/">
  <taskId>0</taskId>
  <startTime>2001-12-31T12:00:00</startTime>
  <endTime>2001-12-31T12:00:00</endTime>
  <state>5</state> <!-- 1(In Progress), 2(Pending), 3(Stopped), 4(Terminated), 5(Complete) -->
  <libraryDiagnosticTestResult /> <!-- A list of libraryDiagnosticTestResult objects -->
</ns2:libraryDiagnosticTestSession>
```

Figure 115: libraryDiagnosticTestTask

```
<?xml version="1.0" encoding="UTF-8"?>
<ns2:libraryDiagnosticTestTask xmlns:ns2="http://automatedMediaLibrary/">
  <testType>12</testType>
  <!--
12 (VT, Start Test Diagnostic Session (i6k))
13 (VT, Finish Test Diagnostic Session (i6k))
14 (VT, Library Test (i6k))
15 (VT, Picker Test (i6k))
16 (VT, Robot Test (i6k and i3/i6))
17 (VT, IE Test (i6k))
18 (VT, Tower Assembly Test (i6k))
19 (VT, Tower Scanner Test (i6k))
20 (VT, Scanner Test (i6k))
21 (VT, Get Put Test (i6k) )
22 (VT, Drive Test (i6k and i3/i6))
23 (VT, Magazine Test (i3/i6))
24 (IVT, Full Installation Verification Test (i6k and i3/i6))
```

```

-->
<libraryTestParameters>
  <robot>0</robot> <!-- 0(Left), 1(Right) and 2(Both) -->
  <startModule>0</startModule>
  <endModule>0</endModule>
  <startRack>0</startRack>
  <endRack>0</endRack>
  <slotLocation> <!-- Used by picker assembly test -->
    <coordinate/>
  </slotLocation>
  <mediaLocation> <!-- A list of scratch tapes, used by robot position test, picker assembly, IE assembly,
GET/PUT and drive assembly tests. -->
    <coordinate/>
  </mediaLocation>
  <startLocation> <!--Start coordinate -->
    <coordinate/>
  </startLocation>
  <endLocation> <!--End coordinate -->
    <coordinate/>
  </endLocation>
  <partialIvt>true</partialIvt> <!-- Indicates whether this is a partial IVT, this requires startModule,
endModule, startRack and endRack. (i6k only) -->
</libraryTestParameters>
</ns2:libraryDiagnosticTestTask>

```

Figure 116: libraryStatus

```

<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:libraryStatus xmlns:ns2="http://automatedMediaLibrary/">
  <state>1</state> <!--0(Unknown), 1(Ready), 2(Not Ready), 3(Becoming Ready) -->
  <mode>1</mode> <!-- 1(Online) 2(Offline) -->
  <ras>
    <status> <!-- See Figure 160: RASGroupStatus -->
      <group>0</group>
      <status>4</status>
    </status>
    <openedTickets>5</openedTickets>
  </ras>
  <partition> <!-- 0 or n partition entries -->
    <name>AV</name>
    <mode>1</mode> <!-- 1(Online) 2(Offline) -->
    <type>1</type> <!-- 1(Standard), 2(EDLM), 3(AMP), 4(Active Vault), 5(CVTL) -->
  </partition>
  <drive> <!-- 0 or n drive entries -->
    <logicalSerialNumber>drive logical serial number</logicalSerialNumber>
    <mode>1</mode> <!-- 1(Online) 2(Offline) -->
    <state>2</state> <!-- 1(Varied On), 2(Varied Off) and 3(Pending/Initializing) -->
  </drive>
  <robot> <!-- 0 or n robot entries -->
    <serialNumber>The robot serial number</serialNumber>
    <location>Right or Left robot</location> <!-- Left or Right -->
    <status>The robot status</status> <!--0(Unknown), 1(Good), 2(Not initialized), 3(Initializing),
4(Failed), 5(N/A)
    <state>2</state> <!-- 1(Varied On), 2(Varied Off) and 3(Pending/Initializing) -->
  </robot>
  <tower> <!-- 0 or n tower entries -->

```

```

    <frameNumber>The frame number the tower is in</frameNumber>
    <status>The robot status</status> <!-- 0(Unknown), 1(Not Present), 2(Failed), 3(Not Ready),
4(Initializing), 5(Ready)
    <state>2</state> <!-- 1(Varied On), 2(Varied Off) and 3(Pending/Initializing) -->
    <mode>1</mode> <!-- 1(Online) 2(Offline) -->
</tower>
<systemStatus>0</systemStatus> <!-- 1(Good), 2(Degraded), 3(Failed) -->
<saveConfigurationRequired>true</saveConfigurationRequired> <!-- Was there a library configuration
change made that requires a new rescue image the be generated. -->
<time>2014-06-27 11:00:15 -0600</time> <!-- The current time on the library. -->
<timeZoneOffset> Returns the offset, measured in minutes, for the local time zone relative to
UTC</timeZoneOffset>
<timeSinceEPOC>1410958379212</timeSinceEPOC> <!-- Returns the number of milliseconds
elapsed since January 1st 1970 -->
<snmpStarted>true</snmpStarted> <!-- This element is used on the i6k to indicate if the SNMP
daemon is running when the LMC server starts up. It should always be true, but we have seen cases in
the past where the daemon does not start up before LMC starts.-->
</ns2:libraryStatus>

```

Figure 117: licenseList

```

<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:licenseList xmlns:ns2="http://automatedMediaLibrary/">
  <license/> <!-- A list of license objects. -->
</ns2:licenseList>

```

Figure 118: license

```

<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:license xmlns:ns2="http://automatedMediaLibrary/">
  <feature>The name of the feature</feature> <!-- This element is used to install a new license key
(POST request) and it also lists the license feature names (GET request), see type element below for the
list of valid license names -->
  <quantity>1</quantity> <!-- Some licenses are controlled by a number, for instance COD, the rest
will be 1 Or 0 is not installed -->
  <description>6 Drives</description>
  <expiration>Permanent</expiration> <!-- for i6k it will be 'Permanent', "Expired", "N/A" or 'Month Day,
Year' example, Jan 12, 2015 and for i3/i6 YYYY-MM-DD -->
  <installed>true</installed> <!-- Is the license installed -->
  <type> License type</type>
<!--
2(Advanced Reporting),
3(Active Vault),
4(Capacity On Demand),
6(Extended Data Lifecycle Management),
7(Encryption Key Management),
8(Partition),
9(Partition Utilization),
11(Path Failover/Native Storage Networking (SNW)),
13(Service Level (i3/i6 Only))
15(Path Failover (i3/i6 Only))
16(Advanced Path Failover (i3/i6 Only))
17(Scalar Key Manager SKM (i3/i6 Only))
-->
  <usedQuantity>2</usedQuantity> <!-- This element only applies to the following license type:
Capacity on Demand, Partition, Encryption Key Management and Path Failover/Native Storage

```



```
Networking -->
  </license>
</ns2:license>
```

Figure 119: loginActivityList

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:loginActivityList xmlns:ns2="http://automatedMediaLibrary/">
  <loginActivity /> A list of loginActivity objects
</ns2:loginActivityList>
```

Figure 120: loginActivity

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:loginActivity xmlns:ns2="http://automatedMediaLibrary/">
  <user>admin</user>
  <role>0</role> <!-- 0(Admin User), 1(Standard User), 2(Service User), 3(Guest User) -->
  <sessionId>1</sessionId>
  <command>Login</command> <!-- The command that was executed login, logout, create partition,
etc.. -->
  <loginFrom>10.20.9.68</loginFrom>
  <time>2014-06-26 15:35:31 -0600</time>
  <description>More details of the command that was run</description>
</ns2:loginActivity>
```

Figure 121: logNames

```
<?xml version="1.0" encoding="UTF-8"?>
<ns2:logNames xmlns:ns2="http://automatedMediaLibrary/">
  <name>name</name> <!-- A list of log names -->
</ns2:logNames>
```

Figure 122: logTableInfoList

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:logTableInfoList xmlns:ns2="http://automatedMediaLibrary/">
  <logTableInfo /> <!-- A list of logTableInfo objects -->
</ns2:logTableInfoList>
```

Figure 123: logTableInfo

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:logTableInfo xmlns:ns2="http://automatedMediaLibrary/">
  <type>1</type> <!-- 0(N/A), 1(VT), 2(SCSI), 3(GET/PUT Statistics) -->
  <licensed>true</licensed>
  <format>TXT</format> <!-- N/A, TXT, CSV -->
</ns2:logTableInfo>
```

Figure 124: ItfsBladeList

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:ItfsBladeList xmlns:ns2="http://automatedMediaLibrary/">
  <ItfsBlade /> <!-- A list of ItfsBlade objects -->
</ns2:ItfsBladeList>
```

Figure 125: ItfsBlade

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:ItfsBlade xmlns:ns2="http://automatedMediaLibrary/">
  <blade/> <!-- See Figure 12: blade -->
  <ipAddress>10.60.166.130</ipAddress>
  <partition>Partition Name</partition>
  <mode>1</mode>
<!--
0(Unknown)
1(Online)
2(Offline)
-->
  <state>1</state>
<!--
0(Unknown)
1(Not Ready)
2(Becoming Ready)
3(Ready)
-->
  <status>1</status>
<!--
0(Unknown)
1(Good)
2(Invalid)
3(Missing)
-->
</ns2:ItfsBlade>
```

Figure 126: LUIAccess

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:LUIAccess xmlns:ns2="http://automatedMediaLibrary/">
  <mode>1</mode> <!-- 1(Open), 2(Login required), 3(PIN Required) -->
  <pin>1234</pin> <!-- 4-digit string -->
</ns2:LUIAccess>
```

Figure 127: magazineList

```
<?xml version="1.0" encoding="UTF-8"?>
<ns2:magazineList xmlns:ns2="http://automatedMediaLibrary/">
  <magazine /> <!-- A list magazine objects -->
</ns2:magazineList>
```

Figure 128: magazine

```
<?xml version="1.0" encoding="UTF-8"?>
<ns2:magazine xmlns:ns2="http://automatedMediaLibrary/">
  <coordinate /> <!-- See Figure 21: coordinate -->
  <storageSlotCount>0</storageSlotCount> <!-- The number of storage slots in the magazine -->
  <ieSlotCount>0</ieSlotCount> <!-- The number of ie slots in the magazine -->
  <mediaInStorageCount>2</mediaInStorageCount>
  <mediaInIECount>0</mediaInIECount>
  <status>1</status> <!-- 1(Good), 2(Ejected) -->
  <state>1</state> <!-- 1(Ready), 2(Not Ready) -->
</ns2:magazine>
```

Figure 129: mediaList

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:mediaList xmlns:ns2="http://automatedMediaLibrary/">
  <media/> A list of media objects, see Figure 130: media
</ns2:mediaList>
```

Figure 130: media

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:media xmlns:ns2="http://automatedMediaLibrary/">
  <barcode>barcode</barcode>
  <mediaType>0</mediaType>
  <!--
2(LTO1),
3(LTO2),
4(LTO3),
5(LTO4),
6(LTO5),
7(LTO6),
8(LTO7),
20(Cleaning)
-->
  <cartridgeType>0</cartridgeType>
  <!--
0(Data),
1(Cleaning),
2(FUP),
3(Diagnostic)
This element is not supported on the i6k
-->
  <currentOwner>N/A</currentOwner>
  <previousOwner>N/A</previousOwner>
  <encryption>Unknown</encryption>
  <!--
Unknown,
Encrypted,
Not Encrypted
-->
  <coordinate/> See Figure 21: coordinate
  <shared>true/false</shared> <!--Deprecated, use ieStatus element instead. -->
  <ieStatus>0</ieStatus>
  <!--
0(None),
1(Shared),
2(System Partition)
This element is not supported on the i6k
-->
  <elementAddress>4096</elementAddress> <!-- The SCSI logical element address of where the media
is located -->
</ns2:media>
```

Figure 131: mediaSecurityEventList

```
<?xml version='1.0' encoding='UTF-8'?>
<ns2:mediaSecurityEventList xmlns:ns2="http://automatedMediaLibrary/">
```

```
< mediaSecurityEvent/> A list of mediaSecurityEvent objects
</ns2:mediaSecurityEventList>
```

Figure 132: mediaSecurityEvent

```
<?xml version='1.0' encoding='UTF-8'?>
<ns2:mediaSecurityEvent xmlns:ns2="http://automatedMediaLibrary/">
  <date>2001-12-31 12:00:00</date>
  <barcode>barcode</barcode>
  <coordinate/> <!-- See Figure 21: coordinate -->
  <removalExpected>true</removalExpected> <!-- Was the media removal expected or unexpected -->
</ns2:mediaSecurityEvent>
```

Figure 133: mediaSecurityPolicy

```
<?xml version="1.0" encoding="UTF-8"?>
<ns2:mediaSecurityPolicy xmlns:ns2="http://automatedMediaLibrary/">
  <unexpectedRemovalAfterReboot>true</unexpectedRemovalAfterReboot>
  <unexpectedRemovalDuringLibraryOperation>true</unexpectedRemovalDuringLibraryOperation>
  <expectedRemovalFromIe>true</expectedRemovalFromIe>
  <unexpectedRemovalFromIe>true</unexpectedRemovalFromIe>
</ns2:mediaSecurityPolicy>
```

Figure 134: mediaUsageList

```
<?xml version="1.0" encoding="UTF-8"?>
<ns2:mediaUsageList xmlns:ns2="http://automatedMediaLibrary/">
  <mediaUsage/> A list of mediaUsage objects
</ns2:mediaUsageList>
```

Figure 135: mediaUsage

```
<?xml version="1.0" encoding="UTF-8"?>
<ns2:mediaUsage xmlns:ns2="http://automatedMediaLibrary/">
  <updated>2001-12-31T12:00:00</updated>
  <barcode>barcode</barcode>
  <serialNumber>Media serial number</serialNumber>
  <manufacturer>manufacturer</manufacturer>
  <type>type</type>
  <manufacturerDate>2001-12-31T12:00:00</manufacturerDate>
  <threadCount>0</threadCount>
  <MBread>0</MBread>
  <MBwrite>0</MBwrite>
  <recoveredReadErrors>0</recoveredReadErrors>
  <recoveredWriteErrors>0</recoveredWriteErrors>
  <unRecoveredReadErrors>0</unRecoveredReadErrors>
  <unRecoveredWriteErrors>0</unRecoveredWriteErrors>
  <encrypted>true</encrypted>
  <edlmScanDate></edlmScanDate> <!-- The date the media was last tested by an EDLM scan (added in
750(i6k) -->
  <edlmScanType></edlmScanType> <!-- The EDLM scan type "Quick", "Normal", "Full" (added in
750(i6k) -->
  <edlmScanResult></edlmScanResult> <!-- The EDLM scan result "Not Completed", "Good", "Untested",
"Suspect", "Failed" (added in 750(i6k) -->
</ns2:mediaUsage>
```

Figure 136: moduleList

```
<?xml version="1.0" encoding="UTF-8"?>
<ns2:moduleList xmlns:ns2="http://automatedMediaLibrary/">
  <module/> <!-- A list of module objects -->
</ns2:moduleList>
```

Figure 137: module

```
<?xml version="1.0" encoding="UTF-8"?>
<ns2:module xmlns:ns2="http://automatedMediaLibrary/">
  <number>1</number>
  <type>1</type> <!-- 1(Control Module), 2(Expansion Module) -->
  <section>1</section> <!-- The module section number -->
</ns2:module>
```

Figure 138: moveMedium

```
<ns2:moveMedium xmlns:ns2="http://automatedMediaLibrary/">
  <mode>2</mode> <!-- This is an optional field that provides the capability to take the partition(s) offline
that are involved in the move medium, only standard p[artitions apply. The default behavior is to do
nothing -->
  <type>0</type>
  <!--
0(Normal, requires source and destination coordinates.),
3(Unload, requires source coordinate only and source must be a drive slot. The drive must belong to a
partition and the WS will move the media to its home slot. If home slot is occupied, the WS will try and
move to first available storage slot that belongs to the partition. If the media is not owned by a partition,
make sure it is not moved into a partition storage slot.)
  </sourceCoordinate> A coordinate object, see Figure 21: coordinate
  </destinationCoordinate> A coordinate object, see Figure 21: coordinate
</ns2:moveMedium>
```

Figure 139: network

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:network xmlns:ns2="http://automatedMediaLibrary/">
  </netInterfaceList> See Figure 143: netInterfaceList
  </netConfigurationList> See Figure 141: netConfigurationList
</ns2:network>
```

Figure 140: networkAccess

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:networkAccess
  xmlns:ns2="http://automatedMediaLibrary/">
  <icmp>
    <enabled>true</enabled>
  </icmp>
  <ssh>
    <enabled>false</enabled>
  </ssh>
  <cli>
    <enabled>true</enabled>
  </cli>
  <snmp>
    <enabled>true</enabled>
```

```

    <v1v2>true</v1v2>
  </snmp>
  <smis>
    <enabled>true</enabled>
    <secure>false</secure>
  </smis>
  <cvtl>
    <enabled>false</enabled>
  </cvtl>
</xml>
  <enabled>true</enabled>
</xml>
</ns2:networkAccess>

```

Figure 141: netConfigurationList

```

<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:netConfigurationList xmlns:ns2="http://automatedMediaLibrary/">
  </netConfiguration> A list of netConfiguration objects
</ns2:netConfigurationList>

```

Figure 142: netConfiguration

```

<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:netConfiguration xmlns:ns2="http://automatedMediaLibrary/">
  <name>eth0</name>
  <location>N/A</location>
  <version>1</version> <!-- 1(IPv4), 2(IPv6) -->
  <hostName>dvt4</hostName> <!-- Valid characters, regx "[a-zA-Z][a-zA-Z0-9\-.]*$" -->
  <domainName>company.com</domainName>
  <type>1</type> <!-- -1(Unknown), 0(None), 1(Static), 2(DHCP), 3(DHCPv6), 4(Static and DHCPv6) -->
  <netMask>255.255.248.0</netMask>
  <netGateway>10.20.168.1</netGateway>
  <ipAddress>10.20.171.14</ipAddress>
</ns2:netConfiguration>

```

Figure 143: netInterfaceList

```

<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:netInterfaceList xmlns:ns2="http://automatedMediaLibrary/">
  </netInterface> A list of netInterface objects, see Figure 144: netInterface
</ns2:netInterfaceList>

```

Figure 144: netInterface

```

<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:netInterface xmlns:ns2="http://automatedMediaLibrary/">
  <name>eth0</name>
  <macAddress>00:30:8C:06:78:D7</macAddress>
  <duplexMode>full</duplexMode>
  <autoNegotiate>false</autoNegotiate>
  <speed>1</speed>
  <linkStatus>1</linkStatus>
</ns2:netInterface>

```

Figure 145: NTP

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:NTP xmlns:ns2="http://automatedMediaLibrary/">
  <server>0.us.pool.ntp.org</server> <!-- You can have 0 or more of these -->
</ns2:NTP>
```

Figure 146: onlineHelp

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:onlineHelp xmlns:ns2="http://automatedMediaLibrary/">
  <version>200Q.G0002</version>
  <mode>1</mode> <!-- 0(Unknown), 1(Local), 2(Remote) -->
  <installDate>The date/time the help bundle was installed</installDate>
</ns2:onlineHelp>
```

Figure 147: partitionList

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:partitionList xmlns:ns2="http://automatedMediaLibrary/">
  <partition/> A list of partition objects, see Figure 148: partition
</ns2:partitionList>
```

Figure 148: partition

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:partition xmlns:ns2="http://automatedMediaLibrary/">
  <id>0</id> <!-- Used internally -->
  <name>name</name> <!-- The name 'System' (case-insensitive) cannot be used on i3/i6, it is a
reserved word -->
  <serialNumber>serialNumber</serialNumber>
  <type>1</type>
<!--
1(Standard)
2(EDLM) Not supported on i3
3(AMP) Not supported on i3/i6
4(Active Vault) Not supported on i3
-->
  <driveDomainType>554</driveDomainType>
<!--
0(Unknown)
3(LTO2)
4(LTO3)
5(LTO4)
6(LTO5)
7(LTO6)
8(LTO7)
99(None)
554(Mixed)
-->
  <mode>0</mode> <!-- 1(Online), 2(Offline) -->
  <state>1</state>
<!-- Added in version 750
0(Unknown)
1(Ready)
2(Not Ready)
3(Becoming Ready)
```

```

-->
<storageSlotCount>0</storageSlotCount>
<driveCount>0</driveCount>
<ieSlotCount>0</ieSlotCount> <!-- Not supported on i3/i6 -->
<xieSlotCount>0</xieSlotCount> <!-- Not supported on i3/i6 -->
<ampExtensionsCount>0</ampExtensionsCount> <!-- Not supported on i3/i6 -->
<mediaCount>0</mediaCount>
<sharedIEMediaCount>0<sharedIEMediaCount> <!-- i3/i6 only, media in an IE slot marked 'awaiting
assignment' when the library is in automatic assignment mode -->
<barcodeReporting>4</barcodeReporting>
<!--
1(Prefix / Media ID first)
2(Suffix / Media ID last)
3(Disabled / Standard),
4(Pass Through / Extended)
5(Standard 6)
6(Plus 6)
-->
<vendorId>1</vendorId> <!-- 0(ADIC), 1(Quantum) -->
<productId>7</productId>
<!--
1((ADIC) Scalar 24)
2((ADIC) Scalar 100)
3((ADIC) Scalar 1000)
4((ADIC) Scalar 10k)
5((ADIC/Quantum) Scalar i500)
6((ADIC/Quantum) Scalar i2000)
7((ADIC/Quantum) Scalar i6000)
8((ADIC/Quantum) Scalar i40-i80)
9((Quantum) Scalar i3-i6)
-->
<controlPathProvider>0</controlPathProvider> <!-- 0(None), 1(Drive), 2(Management Control Blade) -->
<policySettings>
  <driveFirmwareLevelingEnabled>>false</driveFirmwareLevelingEnabled>
  <driveCleaningEnabled>>false</driveCleaningEnabled>
  <driveSpoofingEnabled>>true</driveSpoofingEnabled>
  <encryptionEnabled>>true</encryptionEnabled>
  <activeVaultEnabled>>false</activeVaultEnabled>
  <autoImportEnabled>>true</autoImportEnabled>
  <autoExportEnabled>>true</autoExportEnabled>
  <edlmEnabled>>false</edlmEnabled>
</policySettings>
</ns2:partition>

```

Figure 149: partitionEncryptionPolicyList

```

<?xml version="1.0" encoding="UTF-8"?>
<ns2:partitionEncryptionPolicyList xmlns:ns2="http://automatedMediaLibrary/">
  </partitionEncryptionPolicy> <!-- A list of partitionEncryptionPolicy objects -->
</ns2:partitionEncryptionPolicyList>

```

Figure 150: partitionEncryptionPolicy

```

<?xml version="1.0" encoding="UTF-8"?>
<ns2:partitionEncryptionPolicy xmlns:ns2="http://automatedMediaLibrary/">
  <partitionName>partitionName</partitionName>

```



```

</ekmServerType> <!--0(None), 2(RKM), 4(KMIP), 8(QEKM), 16(SKM), 32(TKLM) -->
<!-- Note: RKM is no longer supported -->
<libraryManaged>true</libraryManaged>
<fipsEnabled>true</fipsEnabled>
<keyReuse>true</keyReuse>
<keyType>0</keyType> <!-- 1(Key per Media), 2(Key per Partition), 3(Key per Library) -->
</ns2:partitionEncryptionPolicy>

```

Figure 151: partitionNames

```

<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:partitionNames xmlns:ns2="http://automatedMediaLibrary/">
  <name>Partition1</name> <!-- One or more partition names -->
</ns2:partitionNames>

```

Figure 152: physicalLibrary

```

<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:physicalLibrary xmlns:ns2="http://automatedMediaLibrary/">
  <name>dvt4</name> <!-- The library host name -->
  <serialNumber>273190049</serialNumber> <!-- The library serial number -->
  <vendorId>quantum</vendorId> <!-- The library vendor name -->
  <productId>Scalar i6000</productId> <!-- The library type, i6k, i500, etc.. -->
  <mode>1</mode> <!-- 1 (Online) or 2 (Offline) -->
  <state>1</state> <!-- 0 (Unknown), 1 (Ready) or 2 (Not Ready) -->
  <mediaInStorageCount>108</mediaInStorageCount> <!--The number of media in storage slots -->
  <mediaInDriveCount>1</mediaInDriveCount> <!--The number of media in drives -->
  <mediaInIeCount>3</mediaInIeCount> <!--The number of media in IE slots -->
  <storageSlotCount>756</storageSlotCount> <!--The number of storage slots -->
  <assignedStorageSlotCount>102</assignedStorageSlotCount> <!--The number of storage slots
owned by partitions. On the i6k this also includes cleaning slots.-->
  <ieSlotCount>24</ieSlotCount> <!--The number of ie slots -->
  <assignedIeSlotCount>6</assignedIeSlotCount> <!--The number of ie slots owned by partitions-->
  <driveCount>9</driveCount> <!--The number of drives in the library -->
  <assignedDriveCount>2</assignedDriveCount> <!--The number of drives owned by partitions -->
  <ieAreaCount>2</ieAreaCount> <!-- The number of configured IE Areas, i3/i6 only -->
  <libraryController>MCB2B</libraryController>
  <roboticController>RCU2</roboticController>
  <firmwareVersion>665Q.DS02101</firmwareVersion> <!-- The library firmware version -->
  <roboticsGeneration>2</roboticsGeneration> <!-- The library robot type 1 (Gen1 for i6k or Model 1 for
i3/i6) or 2 (Gen2 for i6k or Model 2 for i3/i6) -->
  <moduleCount>3</moduleCount> <!-- The number of frames/modules in the library -->
  <towerCount>0</towerCount> <!-- The number of towers in the library -->
  <parkingModules>true</parkingModules> <!-- Does the library have parking modules -->
  <cleaningSlotCount>0</cleaningSlotCount> <!-- The number of cleaning slots in the library -->
  <cleaningMediaCount>0</cleaningMediaCount> <!-- The number of cleaning media in the library -->
  <systemMediaCount>0</systemMediaCount> <!-- The number of media owned by the System
partition. This is only supported on i3/i6. -->
  <libraryUpTime>6 days 18h:21m:40s</libraryUpTime> <!--How long has the library been powered up
since last power down -->
  <phySettings>
    <driveSerialNumberSpoofing>
      <enabled>true</enabled>
    </driveSerialNumberSpoofing>
    <autoInventory>
      <enabled>false</enabled>

```

```

</autoInventory>
<autoCalibration> <!-- Deprecated in i12.X -->
  <enabled>false</enabled>
</autoCalibration>
<autoConfiguration> <!-- Deprecated in i12.X -->
  <enabled>false</enabled>
</autoConfiguration>
<autoCleaning> <!-- Deprecated in i12.X, this is now provided on a partition basis
(aml/partitions/policy/driveCleaning) -->
  <enabled>true</enabled>
</autoCleaning>
<autoDriveUnload>
  <enabled>true</enabled>
</autoDriveUnload>
<ipv6>
  <enabled>true</enabled> <!-- As of i12.3 you can no longer disable IPv6, it will always be enabled
-->
</ipv6>
<extendedle>
  <enabled>true</enabled>
</extendedle>
<sendUsageStatistics>
  <interval>1</interval> <!-- 0(Disabled), 1(Monthly) and 2(Quarterly) -->
</sendUsageStatistics>
<healthCheck>
  <railInterval>0</railInterval> <!-- 0-180 days (0 to disable) -->
  <robotInterval>0</robotInterval> <!-- 0-180 days (0 to disable) -->
  <towerInterval>0</towerInterval> <!-- 0-180 days (0 to disable) -->
</healthCheck>
<aisleLights> <!-- Set the duration for aisle lighting -->
  <interval>0</interval> <!-- 0 (off), 30 minutes or 60 minutes -->
</aisleLights>
<webCamera> <!-- The IP of the host where the Camera (i6000) Application is running -->
  <ipAddress>10.20.9.1</ipAddress>
</webCamera>
<icmpService> <!-- Allow PINGing the library -->
  <enabled>true</enabled>
</icmpService>
<sshService> <!-- Secure Shell connections to the library -->
  <enabled>true</enabled>
</sshService>
<cliService> <!-- Basic CLI interface to the library -->
  <enabled>true</enabled>
</cliService>
<xmlInterfaceService> <!-- Interface used by Quantum Vision to get library information -->
  <enabled>true</enabled>
</xmlInterfaceService>
<serviceLogin> <!-- Allow/disallow service user login -->
  <enabled>true</enabled>
  <enabledRemoteAccess>true</enabledRemoteAccess> <!-- Enable a service user to login from a
remote interface (browser) -->
  <remoteAccessTimeout>0</remoteAccessTimeout> <!-- The amount of time before a service
users remote access will be disabled after it has been enabled. Values are 0 to 72 hours, where 0 is
indefinitely -->
  <enableLocalAccess>true</enableLocalAccess> <!-- Enable a service user to login from the local
user interface -->

```

```

    <localAccessTimeout>0</localAccessTimeout> <!-- The amount of time before a service users
local access will be disabled after it has been enabled. Values are 0 to 72 hours, where 0 is indefinitely --
>
    <serviceUserSession>240</serviceUserSession> <!-- length of the service user session, in
minutes (Not modifiable) -->
    <remoteAccessGranted>2013-05-29 13:17:36</remoteAccessGranted> <!-- date/time remote
access was granted -->
    <localAccessGranted>2013-05-29 13:17:36</localAccessGranted> <!-- date/time local access
was granted -->
</serviceLogin>
<sessionTimeout> <!-- The user session timeout -->
    <minutes>30</minutes> <!-- (1 - 1440) -->
</sessionTimeout>
<snmp>
    <communityString>publicCmtyStr</communityString>
    <enabled>true</enabled>
    <enableVersion1And2>true</enableVersion1And2>
    <enableVersion3>false</enableVersion3> <!-- Not supported in Scalar i6k -->
    <enableAuthenticationTraps>false</enableAuthenticationTraps> <!-- Not supported in i6k -->
</snmp>
<smis>
    <enabled>true</enabled>
    <enableSecureSmis>false</enableSecureSmis>
</smis>
<servicePort> <!-- Enable/Disable service Ethernet port -->
    <enabled>true</enabled>
</ servicePort>
</phySettings>
</ns2:physicalLibrary>

```

Figure 153: physicalLibraryConfiguration

```

<?xml version="1.0" encoding="UTF-8"?>
<ns2:physicalLibraryConfiguration xmlns:ns2="http://automatedMediaLibrary/">
  <name>dvt4</name> <!-- The library host name -->
  <serialNumber>273190049</serialNumber> <!-- The library serial number -->
  <vendorId>quantum</vendorId> <!-- The library vendor name -->
  <productId>Scalar i6000</productId> <!-- The library type, i6k, i500, etc.. -->
  <mode>1</mode> <!-- 1 (Online) or 2 (Offline) -->
  <state>1</state> <!-- 1 (Ready) or 2 (Not Ready) -->
  <libraryController>MCB2B</libraryController>
  <roboticController>RCU2</roboticController>
  <firmwareVersion>firmwareVersion</firmwareVersion>
  <roboticsGeneration>0</roboticsGeneration> <!-- The library robot type 1 or 2 -->
  <libraryUpTime>6 days 18h:21m:40s</libraryUpTime> <!--How long has the library been powered up
since last power down -->
</ns2:physicalLibraryConfiguration>

```

Figure 154: physicalLibraryRemoteAccess

```

<?xml version="1.0" encoding="UTF-8"?>
<ns2:physicalLibraryRemoteAccess xmlns:ns2="http://automatedMediaLibrary/">
  <ipv6>
    <enabled>true</enabled> <!-- As of i12.3 you can no longer disable IPv6, it will always be enabled -->
  </ipv6>

```

```

<icmpService> <!-- Allow/disallow PINGing the library -->
  <enabled>true</enabled>
</icmpService>
<sshService> <!-- Secure Shell connections to the library -->
  <enabled>true</enabled>
</sshService>
<cliService> <!-- Basic CLI interface to the library -->
  <enabled>true</enabled>
</cliService>
<xmlInterfaceService> <!-- Enable Vision Interface -->
  <enabled>true</enabled>
</xmlInterfaceService>
<serviceLogin> <!-- Allow/disallow service user login -->
  <enabled>true</enabled>
  <enabledRemoteAccess>true</enabledRemoteAccess> <!-- Enable a service user to login from a
remote interface (browser) -->
    <remoteAccessTimeout>0</remoteAccessTimeout> <!-- The amount of time before a service
users remote access will be disabled after it has been enabled. Values are 0 to 72 hours, where 0 is
indefinitely -->
    <enableLocalAccess>true</enableLocalAccess> <!-- Enable a service user to login from the local
user interface -->
    <localAccessTimeout>0</localAccessTimeout> <!-- The amount of time before a service users
local access will be disabled after it has been enabled. Values are 0 to 72 hours, where 0 is indefinitely --
>
    <serviceUserSession>240</serviceUserSession> <!-- length of the service user session, in
minutes (Not modifiable) -->
    <remoteAccessGranted>2013-05-29 13:17:36</remoteAccessGranted> <!-- date/time remote
access was granted -->
    <localAccessGranted>2013-05-29 13:17:36</localAccessGranted> <!-- date/time local access
was granted -->
  </serviceLogin>
<sessionTimeout> <!-- The user session timeout in minutes, 1 – 1440 -->
  <minutes>0</minutes>
</sessionTimeout>
<servicePort> <!-- Enable/Disable service Ethernet port -->
  <enabled>true</enabled>
</ servicePort>
</ns2:physicalLibraryRemoteAccess>

```

Figure 155: physicalLibraryResources

```

<?xml version="1.0" encoding="UTF-8"?>
<ns2:physicalLibraryResources xmlns:ns2="http://automatedMediaLibrary/">
  <mediaInStorageCount>0</mediaInStorageCount>
  <mediaInDriveCount>0</mediaInDriveCount>
  <mediaInIleCount>0</mediaInIleCount>
  <storageSlotCount>0</storageSlotCount>
  <assignedStorageSlotCount>0</assignedStorageSlotCount> <!--The number of storage slots assigned
to partitions and cleaning slots.-->
  <ieSlotCount>0</ieSlotCount>
  <assignedIleSlotCount>0</assignedIleSlotCount>
  <driveCount>0</driveCount>
  <assignedDriveCount>0</assignedDriveCount>
  <moduleCount>0</moduleCount>
  <towerCount>0</towerCount>
  <parkingModules>true</parkingModules>

```

```

<cleaningSlotCount>0</cleaningSlotCount>
<cleaningMediaCount>0</cleaningMediaCount>
<ieAreaCount>2</ieAreaCount> <!-- The number of configured IE Areas, i3/i6 only -->
<systemMediaCount>0</systemMediaCount> <!-- The number of media owned by the System partition.
This is only supported on i3/i6. -->
</ns2:physicalLibraryResources>

```

Figure 156: physicalLibrarySettings

```

<?xml version="1.0" encoding="UTF-8"?>
<ns2:physicalLibrarySettings xmlns:ns2="http://automatedMediaLibrary/">
  <driveSerialNumberSpoofing>
    <enabled>true</enabled>
  </driveSerialNumberSpoofing>
  <autoInventory>
    <enabled>true</enabled>
  </autoInventory>
  <autoCalibration> <!-- Deprecated in i12.X -->
    <enabled>true</enabled>
  </autoCalibration>
  <autoConfiguration> <!-- Deprecated in i12.X -->
    <enabled>true</enabled>
  </autoConfiguration>
  <autoCleaning> <!-- Deprecated in i12.X, this is now provided on a partition basis
(aml/partitions/policy/driveCleaning) -->
    <enabled>true</enabled>
  </autoCleaning>
  <autoDriveUnload>
    <enabled>true</enabled>
  </autoDriveUnload>
  <extendeddle>
    <enabled>true</enabled>
  </extendeddle>
  <sendUsageStatistics>
    <interval>0</interval> <!-- 0(Disabled), 1(Monthly) and 2(Quarterly) -->
  </sendUsageStatistics>
  <healthCheck>
    <railInterval>0</railInterval> <!-- 0-180 days (0 to disable) -->
    <robotInterval>0</robotInterval> <!-- 0-180 days (0 to disable) -->
    <towerInterval>0</towerInterval> <!-- 0-180 days (0 to disable) -->
  </healthCheck>
  <aisleLights> <!-- Set the duration for aisle lighting 0 (off), 30 minutes or 60 minutes -->
    <interval>0</interval>
  </aisleLights>
  <webCamera> <!-- The IP of the host where the Camera (i6000) Application is running -->
    <ipAddress>ipAddress</ipAddress>
  </webCamera>
  <snmp>
    <communityString>communityString</communityString>
    <enabled>true</enabled>
    <enableVersion1And2>true</enableVersion1And2>
    <enableVersion3>true</enableVersion3> <!-- Not supported in i6k -->
    <enableAuthenticationTraps>true</enableAuthenticationTraps> <!-- Not supported in i6k -->
  </snmp>
  <smis>
    <enabled>true</enabled>

```

```

    <enableSecureSmis>true</enableSecureSmis>
  </smis>
</ns2:physicalLibrarySettings>

```

Figure 157: ping

```

<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:ping xmlns:ns2="http://automatedMediaLibrary/">
  <firmwareVersion>665Q.DS02401</firmwareVersion>
  <productName>Scalar i6000</productName> <!-- "Scalar i6000", "Scalar i3" or "Scalar i6" -->
  <serialNumber>273190048</serialNumber>
  <vendor>Vendor Name</vendor> <!-- "Quantum" -->
</ns2:ping>

```

Figure 158: port

```

<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:port xmlns:ns2="http://automatedMediaLibrary/">
  <id>Port 1, Port A, Left, Right ...</id>
  <type>1</type> <!-- 1(SCSI), 2(Fibre), 3(SAS) -->
  <address>WWPN</address>
  <topology>
    <actual>2</actual> <!--1(Loop Preferred "LN"), 2(P2P/Fabric "N"), 3(Loop "L"), 4(P2P/Fabric
preferred "NL") -->
    <requested>2</requested> <!--1(Loop Preferred "LN"), 2(P2P/Fabric "N"), 3(Loop "L"), 4(P2P/Fabric
preferred "NL") -->
  </topology>
  <loopId>0</loopId>
  <speed>
    <actual>4</actual> <!-- 0(Auto), 1(1Gb/s), 2(2Gb/s), 4(4Gb/s), 8(8Gb/s) -->
    <requested>4</requested>
  </speed>
  <loop> <!-- The loop ID of the drive. This is intended to replace the loopId
element, since i3/i6 libraries support both 'requested' and 'actual' loop ID's. For i6k if this loop element is
not requested then the loopId element will be used. -->
    <actual>0</actual> <!-- This will report 0-126. On the i6k 0 and 126 indicates soft (which is
equivalent to auto), on i3/i6, 126 indicates soft. -->
    <requested>0</requested> <!-- For i6k 0 and 126 indicate soft and for i3/i6, 126 indicates soft. All
other values indicate hard (user set) loop ID's. -->
  </loop>
  <status>0</status> <!-- 0(N/A), 1(Down), 2(Active), 4(Passive) -->
</ns2:port>

```

Figure 159: RASGroupStatusList

```

<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:RASGroupStatusList xmlns:ns2="http://automatedMediaLibrary/">
  </RASGroupStatus> A list of RASGroupStatus objects
</ns2:RASGroupStatusList>

```

Figure 160: RASGroupStatus

```

<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:RASGroupStatus xmlns:ns2="http://automatedMediaLibrary/">
  <group>1</group> <!--
0 (All), i6k and i3/i6, the i6k uses group 0 to represent the overall library status
1 (Connectivity), i6k only

```

```

2 (Control), i6k and i3/i6
3 (Media), i6k and i3/i6
4 (Drives), i6k and i3/i6
5 (Power), i6k only
6 (Robotics) i6k only
7 (Library) i3/i6 only
.-->
    <status>1</status> <!-- 1 (Good), 2 (Failed), 3 (Degraded), 4 (Warning), 5 (Informational), 6
(Unknown), 7 (Invalid), 8(Attention) -->
</ns2:RASGroupStatus>

```

Figure 161: RASReportList

```

<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:RASReportList xmlns:ns2="http://automatedMediaLibrary/">
    </RASReport> A list of RASReport objects
</ns2:RASReportList>

```

Figure 162: RASReport

```

<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:RASReport xmlns:ns2="http://automatedMediaLibrary/">
    <reportId>42</reportId>
    <postedDate>2013-05-29 13:17:36 +0000</postedDate>
    <duplicates>0</duplicates>
    </RASGroupStatus> <!-- See Figure 160: RASGroupStatus -->
    <eventCode>09_09_18_00_00000000</eventCode>
    <modifier>0x0</modifier>
    <summary>Drive [1, 1, 1, 12, 1, 1] lost network link, will be unable to reconfigure</summary>
    <description>Control of Tape Drive at [1,1,1,12,1,1] communication has failed</description>
    <headReport>41</headReport>
    <keyReportId>0</keyReportId>
    <serialNumber>GB120401FD</serialNumber>
    <repairLink>09_09_18_htm</repairLink>
</ns2:RASReport>

```

Figure 163: RASTicketReports

```

<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:RASTicketReports xmlns:ns2="http://automatedMediaLibrary/">
    <ticketId>15</ticketId>
    </RASReportList> A RASReportList object, see Figure 161: RASReportList
</ns2:RASTicketReports>

```

Figure 164: RASTicketList

```

<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:RASTicketList xmlns:ns2="http://automatedMediaLibrary/">
    <RASTicket>
        <ticketId>5</ticketId>
        <name></name>
        <description>Control of Tape Drive at [1,1,1,10,1,1] communication has failed</description>
        <closed>1970-01-01 00:00:00 +0000</closed>
        <opened>2013-05-16 20:36:43 +0000</opened>
        <eventCode>0</eventCode>
        <groupStatus>
            <group>4</group>

```

```

    <status>2</status>
  </groupStatus>
  <RASTicketState>
    <state>2</state>
  </RASTicketState>
  <duplicates>0</duplicates>
  <lastUpdate>2013-06-11 10:20:05 +0000</lastUpdate>
  <serialNumber>HU1231PJTT</serialNumber>
  <repairLink>09_09_18_htm</repairLink>
  <keyReportId>17</keyReportId>
  <rasTicketDetails/>
</RASTicket>
</ns2:RASTicketList>

```

Figure 165: RASTicket

```

<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:RASTicket xmlns:ns2="http://automatedMediaLibrary/">
  <ticketId>5</ticketId>
  <name></name>
  <description>Control of Tape Drive at [1,1,1,10,1,1] communication has failed</description>
  <closed>1970-01-01 00:00:00 +0000</closed>
  <opened>2013-05-16 20:36:43 +0000</opened>
  <eventCode>0</eventCode>
  </groupStatus> <!-- RASGroupStatus object, see Figure 160: RASGroupStatus -->
</RASTicketState> <!-- A RASTicketState object -->
  <duplicates>0</duplicates>
  <lastUpdate>2013-06-11 10:20:05 +0000</lastUpdate>
  <serialNumber>HU1231PJTT</serialNumber>
  <repairLink>09_09_18_htm</repairLink>
  <keyReportId>17</keyReportId>
  <rasTicketDetails>
    <rasTicketDetails/> <!-- 1-n rasTicketDetails, basically a list of strings -->
  </rasTicketDetails>
  <severity>1</severity> <-- 1(critical), 2(degraded), 3(warning), 4(attention) and 5(informational)
  <fruLocation>1,1,1,1,1,3</fruLocation> <!-- Where the component is location in the library. Note:
This is only supported on the i6k -->
</ns2:RASTicket>

```

Figure 166: RASTicketState

```

<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:RASTicketState xmlns:ns2="http://automatedMediaLibrary/">
  <state>5</state> <!-- 1 (New), 2 (Open), 3 (Suspended), 4 (Closed), 5 (Verified) -->
</ns2:RASTicketState>

```

Figure 167: rasNotificationList

```

<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:rasNotificationList xmlns:ns2="http://automatedMediaLibrary/">
  </rasNotification> A list of rasNotification objects
</ns2:rasNotificationList>

```

Figure 168: rasNotification

```

<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:rasNotification xmlns:ns2="http://automatedMediaLibrary/">

```



```

<id>1</id> <!-- This id is generated and is used to lookup a reportNotification object. Each
reportNotification gets a unique id. -->
<enabled>true</enabled> <!-- Enable/Disable the notification, when disabled the notification will not be
sent -->
<emailAddress>john.doe@acme.com</emailAddress> <!-- E-mail address -->
<severity1>true</severity1> <!-- Send Severity 1 Tickets -->
<severity2>true</severity2> <!-- Send Severity 2 Tickets -->
<severity3>true</severity3> <!-- Send Severity 3 Tickets -->
<severity4>true</severity4> <!-- Send Severity 4 Tickets -->
<severity5>true</severity5> <!-- Send Severity 5 Tickets -->
<includeSnapshot>>false</includeSnapshot> <!-- Do we include a snapshot with the notification. This is
not supported on the i6k -->
<lastSent>Date</lastSent> <!-- The last time the notification was sent -->
<includeDriveLog>>false</includeDriveLog> <!-- Do we include a drive log with the notification. This is
not supported on the i6k -->
<includeResolution>>false</includeResolution> <!-- Do we include a resolution with the notification. This
is not supported on the i6k -->

</ns2:rasNotification>

```

Figure 169: reportList

```

<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:reportList xmlns:ns2="http://automatedMediaLibrary/">
  </report> A list of report objects
</ns2:reportList>

```

Figure 170: report

```

<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:report xmlns:ns2="http://automatedMediaLibrary/">
  <name>Drive Utilization</name> <!-- The report name -->
  <type>The Report Type</type>
<!--
1, "Drive Utilization",
2, "Media Integrity Analysis",
3, "Media Usage",
4, "Media Security",
5, "Cross Partition Media Moves",
6, "Tickets",
7, "LUN Mapping",
8, "Media Inventory",
9, "EKM Partition Activity",
10, "EKM Media Status",
11, "Login Activity",
12, "Verification Test",
13, "Library Configuration",
14, "Partition Utilization",
15, "Drive Cleaning",
16, "EDLM Scan Test",
17, "Blade Media",
18, "Blade Volume Group Capacity",
19, "Blade Media Count",
20, "Blade Configuration Record"
-->
  <license>Advanced Reporting</license> <!-- Some reports required a license, if the report requires a

```

license, then the license name will be reported. If it does not require a license, then this field will be null or empty -->

<licensed>true</licensed> <!-- If the report requires a license, the 'license' element is not null or empty, then this field will be indicated if the license is installed, true, or false if the required license is not installed. If the license element is null or empty then you can ignore this element-->

<format>CSV</format> <!-- The format supported when the report is saved -->

<recordCount>123</recordCount> <!-- The number of records, or if TXT format -->

<template /> <!-- A list of reportTemplate objects, see Figure 175: reportTemplate -->

</ns2:report>

Figure 171: reportCriteria

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
```

```
<ns2:reportCriteria xmlns:ns2="http://automatedMediaLibrary/">
```

```
<start>0</start> <!-- The start offset in the list of records, 0 is the default, the first record -->
```

```
<length>0</length> <!-- The number of records, you want to retrieve, 0 is default and means all records after the start offset -->
```

```
<period>0</period> <!-- The last number of days to report. If I want a report for the last week, this value would be 7 -->
```

```
<date>Query start date</date> <!-- At what date you want to start your query. The data returned will include all records that are equal to or older than the date specified. When used with the period parameter, the data returned will include all records that are equal or older than the date specified up to the period (number of days) specified. The date format expected is "yyyy-MM-dd HH:mm:ss" or "yyyy-MM-dd HH:mm:ss Z" the Z (time zone) field will be ignored. -->
```

```
<partition>partition name</partition> <!-- Some reports can be filtered on partition name -->
```

```
<driveSerialNumber>serial number</driveSerialNumber> <!-- Some reports can be filtered on the drive physical serial number -->
```

```
<barcode>The media barcode</barcode> <!-- Some reports can be filtered on the media barcode-->
```

```
<state>1</state> <!-- Generic field used to filter on state, or overloaded to filter on some other field, must be > 0 -->
```

```
<type>1</type> <!-- Generic field used to filter on type, or overloaded to filter on some other field, must be > 0 -->
```

```
<id>1</id> <!-- Generic field used to filter on id, or overloaded to filter on some other field, must be > 0. This was added in version 750 -->
```

```
</ns2:reportCriteria>
```

Figure 172: reportNotificationList

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
```

```
<ns2:reportNotificationList xmlns:ns2="http://automatedMediaLibrary/">
```

```
<reportNotification/> A list of reportNotification objects, See Figure 173: reportNotification
```

```
</ns2:reportNotificationList>
```

Figure 173: reportNotification

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
```

```
<ns2:reportNotification xmlns:ns2="http://automatedMediaLibrary/">
```

```
<id>4</id> <!-- This id is generated and is used to lookup a reportNotification object. Each reportNotification gets a unique id. -->
```

```
<enabled>true</enabled> <!-- Enable/Disable the notification, when disabled the notification will not be sent -->
```

```
<emailAddress>john.doe@company.com</emailAddress> <!-- The e-mail address where the notification will be sent too -->
```

```
<reportTemplateName>LoginActivity</reportTemplateName> <!-- The report template name, See Figure 175: reportTemplate. -->
```

```
<interval>
```

```

    <frequency>1</frequency> <!-- The frequency the report will be sent, valid values are 1 (Daily), 2
(Weekly), 3 (Monthly) and 4 (Quarterly) -->
    <dayOfWeek>4</dayOfWeek> <!-- The day of the week the report should be sent, 0 is Sunday, 6 is
Saturday -->
    <hourOfDay>0</hourOfDay> <!-- The hour of the day the report should be sent, 0 - 23 -->
  </interval>
</ns2:reportNotification>

```

Figure 174: reportTemplateList

```

<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:reportTemplateList xmlns:ns2="http://automatedMediaLibrary/">
  <reportTemplate/> A list of reportTemplate objects, see Figure 175: reportTemplate
</ns2:reportTemplateList>

```

Figure 175: reportTemplate

```

<?xml version="1.0" encoding="UTF-8"?>
<ns2:reportTemplate xmlns:ns2="http://automatedMediaLibrary/">
  <id>Template ID</id> <!-- Only used to lookup template -->
  <name>name</name> <!-- The name can only contain the following characters A-Z a-z 0-9 _ and
spaces. The maximum number of character allowed is 64 -->
  <reportType>1</reportType> <!-- See type element of Figure 170: report -->
  <reportCriteria/> <!-- A reportCriteria object Figure 171: reportCriteria -->
</ns2:reportTemplate>

```

Figure 176: robotList

```

<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:robotList xmlns:ns2="http://automatedMediaLibrary/">
  <robot/> A list of 1 or 2 robot objects, see Figure 177: robot
</ns2:robotList>

```

Figure 177: robot

```

<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:robot xmlns:ns2="http://automatedMediaLibrary/">
  <name>name</name>
  <status>0</status> <!-- 1(Active), 2(Passive), 3(Pending), 4(Failed), 5(N/A) -->
  <state>0</state> <!-- 1(Varied On), 2(Varied Off) -->
  <serialNumber>serialNumber</serialNumber>
  <firmwareVersion>firmwareVersion</firmwareVersion>
  <parked>true</parked>
  <present>true</present>
  <generation>generation</generation>
</ns2:robot>

```

Figure 178: segmentList

```

<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:segment xmlns:ns2="http://automatedMediaLibrary/">
  </segment> <!-- A list of segment objects -->
</ns2:segment>

```

Figure 179: segment

```

<?xml version="1.0" encoding="UTF-8" standalone="yes"?>

```

```

<ns2:segment xmlns:ns2="http://automatedMediaLibrary/">
  <coordinate/> <!-- See Figure 21: coordinate -->
  <size>6</size>
  <owner>LL1</owner> <!--The partition who owns the segment -->
  <configuredType>0</configuredType> <!--Future configuration type option to allow IE to be
configured as storage -->
</ns2:segment>

```

Figure 180: sensorList

```

<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:sensorList xmlns:ns2="http://automatedMediaLibrary/">
  </sensor> A list of sensor objects
</ns2:sensorList>

```

Figure 181: sensor

```

<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:sensor xmlns:ns2="http://automatedMediaLibrary/">
  <!-- All elements are strings -->
  <name>RCS FAN1</name>
  <type>Cooling</type>
  <status>Nominal</status>
  <value>5818</value>
  <unit>RPM</unit>
  <location>Library (LPC) Cooling Fan #1</location>
</ns2:sensor>

```

Figure 182: serviceLogList

```

<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:serviceLogList xmlns:ns2="http://automatedMediaLibrary/">
  <serviceLog/> <!-- A list of serviceLog objects -->
</ns2:serviceLogList>

```

Figure 183: serviceLog

```

<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:serviceLog xmlns:ns2="http://automatedMediaLibrary/">
  <name>vt_2U31090031_2015-06-18_17.21.48.log</name> <!-- The name of the log -->
  <type>1</type> <!-- 0(N/A), 1(VT), 2(SCSI), 3(GET/PUT Statistics) -->
  <date>2015-06-18 17:22:59</date> <!-- The date the log file was last modified -->
</ns2:serviceLog>

```

Figure 184: shutdownTask

```

<?xml version="1.0" encoding="UTF-8"?>
<ns2:shutdownTask xmlns:ns2="http://automatedMediaLibrary/">
  <reboot>false</reboot> <!-- Set to true if library should reboot, otherwise library needs to be physically
power cycled -->
</ns2:shutdownTask>

```

Figure 185: trapNotificationList

```

<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:trapNotificationList xmlns:ns2="http://automatedMediaLibrary/">
  <trapNotification/> A list of trapNotification objects.

```

```
</ns2:trapNotificationList>
```

Figure 186: trapNotification

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:trapNotification xmlns:ns2="http://automatedMediaLibrary/">
  <id>Unique ID</id> <!-- Used to lookup object -->
  <host>10.20.1.100</host> <!-- The host or IP of the host that will receive the trap -->
  <port>162</port>
  <transportType>1</transportType> <!-- 1(UDP IPv4), 2(UDP IPv6), 3(TCP IPv4), 4(TCP IPv6) Not
supported in Scalar i6k -->
  <communityString>publicCmtyStr</communityString> <!-- Not required for Quantum branded i6k
libraries -->
  <version>1</version> <!-- 1(SNMPv1), 2(SNMPv2c), 3(SNMPv3) Not supported in Scalar i6k or
Scalar i3/i6 yet-->
</ns2:trapNotification>
```

Figure 187: tapeAlertList

```
<?xml version="1.0" encoding="UTF-8"?>
<ns2:tapeAlertList xmlns:ns2="http://automatedMediaLibrary/">
  <tapeAlert/> A list of tapeAlert objects
</ns2:tapeAlertList>
```

Figure 188: tapeAlert

```
<?xml version="1.0" encoding="UTF-8"?>
<ns2:tapeAlert xmlns:ns2="http://automatedMediaLibrary/">
  <driveSerialNumber>driveSerialNumber</driveSerialNumber>
  <barcode>barcode</barcode>
  <tapeAlert>0</tapeAlert>
  <dateTime>2001-12-31T12:00:00</dateTime>
</ns2:tapeAlert>
```

Figure 189: taskList

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:taskList xmlns:ns2="http://automatedMediaLibrary/">
  <task/> A list of task objects
</ns2:taskList>
```

Figure 190: task

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:task xmlns:ns2="http://automatedMediaLibrary/">
  <id>91</id> <!-- A unique task id number, used to look up a particular task -->
  <componentId>LL1</componentId> <!-- Drive serial number, partition name, blade coordinate, etc.--
>
  <type>1</type>
<!-- 0(All types),
1 (Inventory),
2 (Library Shutdown),
3 (Library Reboot),
4 (Identify Drive),
5 (Drive Clean),
6 (Power Cycle FC IO Blade),
7 (Reset FC IO Blade),
```

```

8 (Identify FC IO Blade),
9 (Identify Ethernet Expansion Blade),
10 (Auto Import Media),
11 (Generate Command History Logs)
12 (VT, Start Test Diagnostic Session (i6k and i3/i6))
13 (VT, Finish Test Diagnostic Session (i6k and i3/i6))
14 (VT, Robot Accessor Test (i6k))
15 (VT, Robot Picker Test (i6k))
16 (VT, Robot Assembly Test (i6k and i3/i6))
17 (VT, IE Station Assembly Test (i6k))
18 (VT, Tower Assembly Test (i6k))
19 (VT, Tower Scanner Test (i6k))
20 (VT, Robot Scanner Test (i6k))
21 (VT, Library Get/Put Test (i6k) )
22 (VT, Drive Assembly Test (i6k and i3/i6))
23 (VT, Magazine Test (i3/i6))
24 (IVT, Installation Verification Test (i6k and i3/i6))
27 (VT, Library Alignment Test (i6k) )
28 (VT, Barcode Label Test (i6k) ) -->
    <opened>2013-12-16 17:17:55 +0000</opened> <!-- When the task was started -->
    <closed>2013-12-16 17:18:06 +0000</closed> <!-- When the task completed -->
    <state>5</state> <!-- See xsd shared.xsd -->
    <status>1</status> <!-- See xsd shared.xsd -->
    <description>Inventory - Start Element: 4096, element count: 20, offline: true</description>
    <sessionId>15</sessionId>
</ns2:task>

```

Figure 191: ticketFilterList

```

<?xml version="1.0" encoding="UTF-8"?>
<ns2:ticketFilterList xmlns:ns2="http://automatedMediaLibrary/">
  </ticketFilter> <!-- A list of ticketFilter objects -->
</ns2:ticketFilterList>

```

Figure 192: ticketFilter

```

<?xml version="1.0" encoding="UTF-8"?>
<ns2:ticketFilter xmlns:ns2="http://automatedMediaLibrary/">
  <id>0</id>
  <linkId>01_09_10</linkId> <!-- The RAS ticket link ID -->
  <defaultSuppressOption>0</defaultSuppressOption>
  <!-- The library assigned default option, this cannot be modified
0(No Suppression, e-mail notifications will be sent),
1(No E-mail to Technical Support),
2(No E-mail will be sent to anybody),
3(The RAS ticket will not be generated)
-->
  <suppressOption>0</suppressOption>
  <!--
0(No Suppression, e-mail notifications will be sent),
1(No E-mail to Technical Support),
2(No E-mail will be sent to anybody),
3(The RAS ticket will not be generated)
-->
  <description>description</description> <!-- RAS Ticket description -->
  <rasGroup>1</rasGroup>

```

```

<!--
1(Connectivity),
2(Control),
3(Media),
4(Drives),
5(Power)
6(Robotics)
-->
</ns2:ticketFilter>

```

Figure 193: timeZoneIDs

```

<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:timeZoneIDs xmlns:ns2="http://automatedMediaLibrary/">
  <ID>(GMT-12:00) Etc/GMT+12 (GMT-12:00)</ID>
  <ID>(GMT-11:00) Etc/GMT+11 (GMT-11:00)</ID>
  <ID>(GMT+13:00) MIT (WSDT)</ID>
  <ID>(GMT+13:00) Pacific/Apia (WSDT)</ID>
  <ID>(GMT-11:00) Pacific/Midway (SDT)</ID>
  <ID>(GMT-11:00) Pacific/Niue (NUST)</ID>
  <ID>(GMT-11:00) Pacific/Pago_Pago (SDT)</ID>
  <ID>(GMT-11:00) Pacific/Samoa (SDT)</ID>
  <ID>(GMT-11:00) US/Samoa (SDT)</ID>
  <ID>(GMT-10:00) America/Adak (HADT)</ID>
  .....
</ns2:timeZoneIDs>

```

Figure 194: towerList

```

<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:towerList xmlns:ns2="http://automatedMediaLibrary/">
  <tower/> A list of tower objects, see Figure 195: tower
</ns2:tower>

```

Figure 195: tower

```

<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:tower xmlns:ns2="http://automatedMediaLibrary/">
  <id>2</id> <!-- The tower ID -->
  <coordinate/> See Figure 21: coordinate
  <serialNumber>serialNumber</serialNumber>
  <firmwareVersion>firmwareVersion</firmwareVersion>
  <scannerPresent>true</scannerPresent>
  <doorOpened>true</doorOpened>
  <mode>0</mode> <!-- 1(Online), 2(Offline) -->
  <state>1</state> <!-- 1(Varied On), 2(Varied Off) -->
  <status>0</status> <!-- 1(Not Present), 2(Failed), 3(Not Ready), 4(Initializing), 5(Ready) -->
</ns2:tower>

```

Figure 196: userList

```

<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:userList xmlns:ns2="http://automatedMediaLibrary/">
  </user> A list of user objects
</ns2:userList>

```

Figure 197: user

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:user xmlns:ns2="http://automatedMediaLibrary/">
  <name>JohnDoe</name>
  <password>The users password</password> <!-- This is used when logging in and when changing the
users password -->
  <role>1</role> <!-- -1(Ignore this field), 0 (Admin), 1 (User), 2 (Service), 3 (Guest)
  <partitionAccess>Test Partition</partitionAccess>
  <partitionAccess>Sales Partition</partitionAccess>
  <activeCount>0</activeCount>
  <ldap>false</ldap>
</ns2:user>
```

Figure 198: userPreferencesList

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:userPreferencesList xmlns:ns2="http://automatedMediaLibrary/">
  <userPreferences /> <!-- 0-n userPreferences objects. -->
</ns2:userPreferencesList>
```

Figure 199: userPreferences

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:userPreferences xmlns:ns2="http://automatedMediaLibrary/">
  <userName>admin</userName> <!-- The uses name, local library user or LDAP user. -->
  <ldapUser>false</ldapUser> <!-- Is this an LDAP user -->
  <version>740G.DH00300</version>
  <preference> <!-- 0-n of these can exist. -->
    <name>Name</name> <!-- The preference name -->
    <value>Value</value> <!-- The preference value -->
  </preference>
</ns2:userPreferences>
```

Figure 200: userSessionList

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:userSessionList xmlns:ns2="http://automatedMediaLibrary/">
  </userSession> A list of userSession objects
</ns2:userSessionList>
```

Figure 201: userSession

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:userSession xmlns:ns2="http://automatedMediaLibrary/">
  <id>3</id>
  <loginTime>2013-01-10 14:43:29 -0700</loginTime>
  <name>johndoe</name>
  <role>1</role>
  <lastActivityTime>2013-01-10 14:43:29 -0700</lastActivityTime>
  <loginFrom>10.20.9.123</loginFrom>
</ns2:userSession>
```

Figure 202: vtReportList

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:vtReportList xmlns:ns2="http://automatedMediaLibrary/">
```



```

<report>vt_2U31090031_2014-06-23_16.09.52</report> <!-- The report name -->
<report>vt_2U31090031_2014-06-23_16.49.36</report>
</ns2:vtReportList>

```

Figure 203: WSResultCode

```

<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:WSResultCode xmlns:ns2="http://automatedMediaLibrary/">
  <code>200</code> <!-- HTTP Status code -->
  <description>OK</description> <!-- A brief description of this code -->
  <summary>Operation Completed Successfully</summary> <!-- A summary of the result of the
operation -->
  <action>Upload library firmware</action> <!-- A description of the action/operation that was requested -
->
  <customCode>0</customCode> <!-- An optional custom code -->
</ns2:WSResultCode>

```

6.2 Scalar i6k WSResultCode Custom Codes

The Scalar i6k WSResultCode object contains a customCode element which may provide more information when an error occurs for any given Web Service request. The customCode is only used when a Web Services request encounters an error, regardless of it being a client or server problem.

The following lists the codes and describes their meaning. If a customCode is not available, a value of 0 (zero) will be returned.

Table 389: SCSI Custom Codes 10000 – 80000

ASC	ASCQ	Custom Code	Description
		10001	Reservation Conflict
00h	17h	10023	Drive requests cleaning
04h	00h	11024	Robotics not ready due to an unknown cause
04h	01h	11025	Robotics are becoming ready
04h	03h	11027	Robotics not ready; manual intervention required
04h	83h	11155	Robotics not ready; aisle power disabled
04h	8Dh	11165	Robotics not ready
15h	01h	15377	Robotics positioning error
15h	80h	15504	Robotics dropped a cartridge
15h	81h	15505	Robotics could not pick a cartridge
15h	83h	15507	Robotics could not place a cartridge
15h	84h	15508	Move completed with cartridge Get recoveries
15h	85h	15509	Move completed with cartridge Put recoveries
15h	86h	15510	Move completed but cartridge was placed in alternate location
15h	91h	15521	Media stranded in picker
15h	92h	15522	Media stranded in picker
15h	93h	15523	Operation needs to be retried
1Ah	00h	16656	Logic error: Parameter list length error
20h	00h	18192	Logic error: Illegal OpCode in CDB
21h	01h	18449	Logic error: Invalid element address in CDB

24h	00h	19216	Logic error: Invalid field in CDB
24h	80h	19344	Logic error: Attempt to write a read only buffer
25h	00h	19472	Logic error: Illegal LUN
26h	00h	19728	Logic error: Invalid field in Parameter List
26h	01h	19729	Logic error: Parameter not supported
26h	02h	19730	Logic error: Parameter value invalid
26h	80h	19856	Logic error: Parameter data checksum failure
26h	81h	19857	Logic error: Parameter value already in use
28h	00h	20240	Robotics transitioned to ready state: Element status may have changed.
28h	01h	20241	Insert/Eject area opened and closed: I/E element status may have changed
29h	00h	20496	Power-on or reset occurred
29h	01h	20497	Power on occurred
29h	04h	20500	Internal reset occurred
29h	81h	20625	Library reset into degraded mode of operation
2Ah	01h	20753	Mode parameters have been changed
2Ah	80h	20880	Library inventory completed
30h	00h	22288	Incompatible medium installed
30h	07h	22295	Cleaning failure
30h	82h	22418	Drive cleaning operation complete
30h	90h	22432	Drive firmware update complete
30h	91h	22433	Drive firmware update failed
30h	92h	22434	Invalid firmware image
3Bh	0Dh	25117	Destination element is full
3Bh	0Eh	25118	Source element is empty
3Bh	12h	25122	Media magazine not installed
3Bh	85h	25237	Logic Error: Destination of MOVE cannot be picker
3Bh	A0h	25264	Logic error: Media type does not match destination media type
3Eh	00h	25872	Robotics discovery/teach not complete
3Eh	03h	25875	Robotics self-test failed
3Fh	01h	26129	New firmware loaded
3Fh	04h	26132	Drive added
3Fh	80h	26256	EEPROM failed to erase
3Fh	84h	26260	EEPROM program failure
3Fh	90h	26272	Robotics status changed
3Fh	91h	26273	Robotics access timer started
3Fh	92h	26274	Robot replacement succeeded
3Fh	93h	26275	Robot replacement failed
3Fh	94h	26276	Replacement robot detected
40h	80h	26512	Component failure
40h	91h	26529	Gripper failure
40h	A0h	26544	Robotics vertical axis motion failure
40h	A1h	26545	Robotics vertical axis homing failure
40h	B0h	26560	Robotics horizontal axis motion failure
40h	B1h	26561	Robotics horizontal axis homing failure

40h	C0h	26576	Robotics motion failure
40h	E0h	26608	Robotics power failure
44h	00h	27408	Internal logic failure
44h	81h	27537	Drive communication not established
44h	82h	27538	Drive communication lost
44h	83h	27539	Drive powered off
4Ch	00h	29456	Robotics discovery/teach failure
53h	00h	31248	Drive did not load or unload a tape cartridge
53h	01h	31249	A drive did not unload a tape cartridge
53h	02h	31250	A drive is preventing media removal
53h	80h	31376	Tape cartridge in I/E station not properly inserted
53h	81h	31377	Insert/Eject station door is open
53h	82h	31378	I/E station lock failure
53h	83h	31379	I/E station unlock failure
53h	84h	31380	Medium in drive is unloaded and robot accessible
5Dh	00h	33808	Tape Alert reported or failure prediction threshold exceeded
83h	00h	43536	Barcode label too short or too long
83h	01h	43537	Cannot read a barcode label due to scanner problem
83h	02h	43538	Barcode label questionable
83h	03h	43539	Cell status and barcode label questionable
83h	04h	43540	Drive not installed
83h	05h	43541	Drive varied off and not accessible for library operations
83h	06h	43542	Element contained within an offline tower or I/E station and is not accessible for library operations
83h	07h	43543	Tower is offline
83h	08h	43544	Tower transitioned to online
83h	09h	43545	Drive is offline
83h	0Ah	43546	Drive transitioned to online
83h	0Bh	43547	Drive enabled library managed encryption
83h	0Ch	43548	Drive enabled application managed encryption
83h	0Dh	43549	Drive assigned valid Ethernet IP address
83h	0Eh	43550	Drive disabled encryption