

ASM REST API Version 1.0

Reference Guide



Notes, cautions, and warnings



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



CAUTION: A CAUTION indicates either potential damage to hardware or loss of data and tells you how to avoid the problem.



WARNING: A WARNING indicates a potential for property damage, personal injury, or death.

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Overview

This document is intended for a technical audience. It is assumed that the reader is familiar with REST, and programmatic interaction with REST APIs. In reality, any programming languages can be used with these APIs, however, the code examples contained in this guide are written in Ruby. XML is also used extensively for these examples.

ASM is an acronym for Dell Active System Manager. ASM is intended to automate the processes involved in provisioning, configuring, and managing bare metal hardware: chassis, servers, switches, and network storage devices. ASM supports processes such as automated discovery of hardware, automated installation of operating systems, creation of virtual networks, and firmware management.

Two essential concepts in ASM are, *ServiceTemplate* and *Deployment process*. A *ServiceTemplate* describes a blueprint for provisioning and configuring a collection of devices as a named unit, also known as a *Service*. Deployment is the process of utilizing a *ServiceTemplate* to physically realize what service the *ServiceTemplate* describes. While the names Deployment and Service are synonymous, ASM-UI uses the term Service while the REST API uses the term Deployment.

ASM is distributed as a virtual appliance running a collection of interacting web applications that communicate through the REST interfaces. An additional web application, ASM-UI, also residing on the appliance, provides full browser-based GUI access to ASM. This ASM-UI interacts with ASM through the same REST interfaces described in this guide.

It is possible to effectively integrate ASM with any custom UI or access it through programs for better automation experiences.

In this API guide, we have described, how to use these APIs with appropriate examples.

A full reference to all of the available REST methods is explained in [Appendix A](#).



NOTE: Most of these REST methods exchange complex data models within the HTTP requests and responses, which can be represented as either XML or JSON depending on the preference. The structure of these models is contained in [Appendix B](#) for further reference.

Other Documents You May Need

Go to <http://www.dell.com/asmdocs> for additional supporting documents such as:

- *Dell Active System Manager version 8.1 User's Guide*
- *Dell Active System Manager version 8.1 Installation Guide*
- *Dell Active System Manager Version 8.1 Compatibility Matrix*
- *Dell Active System Manager version 8.1 Release Notes*

For more information regarding best practices, Dell solutions, and services, videos, blogs, support forum, see Dell Active System Manager page on Dell TechCenter:

<http://www.dell.com/asmtechcenter>

Resource URI Endpoints

An example of resource endpoint is: **https://Api/V1/ServiceTemplate**

From this example, API endpoints are accessible over https (at port 443).

All URI paths are prefixed with /Api/V1/ where V1 is the current API version.

Following the prefix above the remainder of the URI path (endpoint) will have the form /<resource>/<action>?<query>.

Where action and query are optional, and resource is one of the following resources:

- Authenticate
- Chassis
- Credential
- Deployment
- DeviceGroup
- DHCP
- DiscoveryRequest
- FirmwareRepository
- ManagedDevice
- Network
- NTP
- Proxy
- Server
- ServiceTemplate
- Timezone
- User
- WizardStatus

Each of these resources is fully detailed in Appendix A, showing the applicable HTTP methods for each, optional actions and query parameters, and relevant payloads for POST and PUT methods.

Authentication Headers

All API requests require 3 custom HTTP headers for authentication.

- X-dell-auth-key
- X-dell-auth-signature
- X-dell-auth-timestamp

In order to compute the authentication headers, first a REST call must be made to the /Authenticate endpoint. The Full URI is **/Api/V1/Authenticate**.

This call must be a POST request supplying either an XML or JSON payload. For illustration, the XML payload will follow the structure below providing the user name and password:

```
<AuthenticateRequest>
  <userName>admin</userName>
  <domain>ASMLocal</domain>
  <password>abc123</password>
</AuthenticateRequest>
```

This call must be a POST request supplying either an XML or JSON payload. For illustration, the XML payload will follow the structure below providing the user name and password:

Depending on the Accept header, the response will contain either an XML or JSON payload. For illustration we show the XML version:

```
<AuthenticateResponse>
  <userName>admin</userName>
  <domain>ASMLocal</domain>
  <role>Administrator</role>
  <apiKey>34b3577f7c3c03174a9a506b</apiKey>
  <apiSecret>9a6d9692ba64142e6a1934f9be994f3b0ae63959a6132c8b</apiSecret>
</AuthenticateResponse>
```

The returned apiKey and apiSecret from the XML response above will then be used to generate the security headers. The method is to concatenate 5 values and then compute a digest using the apiSecret from above. For illustration, a Ruby implementation of the generated headers is shown. This relies on the base64 and openssl gems to compute the signature and is extracted from the supplied Ruby ASM module discussed further in [Appendix C](#).

```
apiKey = '34b3577f7c3c03174a9a506b'
apiSecret = '9a6d9692ba64142e6a1934f9be994f3b0ae63959a6132c8b'
timestamp = Time.now.to_i.to_s

# Concatenate the following values
requestString = "%s:%s:%s:%s:%s" %
[apiKey, httpMethod, uriPath, userAgent, timestamp]

# Compute a digest on concatenated string using apiSecret
hash_str = OpenSSL::HMAC.digest('sha256', apiSecret, requestString)
signature = Base64.strict_encode64(hash_str)
```

```
headers['x-dell-auth-key'] = apiKey  
headers['x-dell-auth-signature'] = signature  
headers['x-dell-auth-timestamp'] = timestamp
```



NOTE: Due to the timestamp component, authentication of future requests may fail if the 2 systems communicating with each other have system clocks that are not well synchronized. So, this is essential before anything else, to synchronize the system clocks of 2 different systems.

Generic Query Parameters

Many GET methods which return a list of objects support generic query parameters for filtering, sorting, and pagination. These methods are indicated in the API reference section but the detailed syntax is described here.

- **filter**=<operator>,<valid filter column>,<value>,<value2>...
- operator is one of (eq, co)
- where valid filter columns are listed for each supporting method in the API reference
- Examples:
 - "eq,columnName,columnValue"
To include resources where columnName is columnValue.
 - "eq,columnName,columnValue,columnValue2[,columnName3...]"
To include resources where columnName is columnValue OR columnValue2.
 - "eq,columnName,"
To include resources where columnName is empty.
 - "eq,columnName,,columnValue[,columnName2...]"
To include resources where columnName is empty OR columnValue.
 - "co,columnName,columnValue"

To include resources where columnName *contains* columnValue:

- **sort**=[-]<valid sort column>, where valid sort columns are listed for each supporting method in the API reference and a minus sign preceding the column name indicates descending order
- **offset**= <integer> default is 0
- **limit**= <integer> default is 50

Dates in query strings

Some of the columns that are sortable or filterable are dates such as *createdDate*. When using the filter parameter with date strings, only the *eq* operator is valid. The format for these date strings is:

dd-MM-yyyy

example: 30-07-2015

HTTP Message Bodies

All HTTP Requests and Responses support both XML and JSON content types. The examples used throughout this document show HTTP body content in XML form. The represented data models accepted and returned by the API calls can be quite complex. The structure of these data models is detailed in Appendix B in a language independent representation. While it is possible to craft say an XML request body from this reference documentation, a much more convenient method is to GET an existing object from ASM in the desired representation (XML or JSON) and save it to a file for use as a skeleton for future requests involving that model type.

Since a fresh system will not have any existing Deployments. A Deployment model is shown below for illustration. It is actually only a skeleton because it is lacking the essential ServiceTemplate content that would make it useful. For more information see the Usage Example called *Deploy a Service*.

```
<?xml version="1.0" encoding="UTF-8"?>
  <Deployment>
    <deploymentName>Ottomatic</deploymentName>
    <numberOfDeployments>1</numberOfDeployments>
    <deploymentDescription>test REST deployment</deploymentDescription>
    <allUsersAllowed>false</allUsersAllowed>
    <canCancel>false</canCancel>
    <canDelete>false</canDelete>
    <canDeleteResources>false</canDeleteResources>
    <canEdit>false</canEdit>
    <canMigrate>false</canMigrate>
    <canRetry>false</canRetry>
    <canScaleupApplication>false</canScaleupApplication>
    <canScaleupCluster>false</canScaleupCluster>
    <canScaleupServer>false</canScaleupServer>
    <canScaleupStorage>false</canScaleupStorage>
    <canScaleupVM>false</canScaleupVM>
    <updateServerFirmware>false</updateServerFirmware>
    <individualTeardown>false</individualTeardown>
    <teardown>false</teardown>
    <retry>false</retry>
    <serviceTemplate>
    </serviceTemplate>
  </Deployment>
```

Usage Examples

The following examples use a simple Ruby module called ASM which utilizes the publicly available RestClient gem to perform the HTTP requests. This module contains utilities to generate the security headers so we can focus on the API calls themselves. See Appendix C for detailed information on using and configuring the ASM module.

In addition to the API requests, there is sometimes significant XML processing required to prepare the request bodies or parse the responses. A utility module ASM::Payload is provided for simple get/set operations on XML document elements and simple load/save operations on XML files for use as starting templates and intermediate data storage between API calls. This module is not required but is useful for simplifying the example code that follows.

Timezone

Get the current timezone

```
require 'ASMConfig'

# Get timezone settings
url = ASM::API::URI("/Timezone")

response = ASM::API::sign {
  RestClient.get url
}
# Save it for future use as a payload
payload = ASM::Payload.from_xml(response)
payload.save_xml('timezone.xml')
```

Here we utilize a block construct to sign our request. All RestClient invocations inside the sign block will automatically be signed. The url is specified simply as '/Timezone' because ASM has already been configured with the base path prefix /Asm/V1. The response object as XML is:

```
<timeZone>
  <timeZone>(UTC-06:00) Central Time (US & Canada)</timeZone>
  <timeZoneId>11</timeZoneId>
</timeZone>
```

which we saved in the file 'timezone.xml' as a payload used in the next example to set the timezone.

Set the current timezone

Here we utilize the simple XML utility class called ASM::Payload to do simple manipulations of our XML.

```
require 'ASMConfig'

payload = ASM::Payload.load_xml('timezone.xml')

payload.set('timeZoneId','15')

# Set Timezone
response = ASM::API::sign {
  url = ASM::API::URI("/Timezone")
  RestClient.put url, payload.to_xml, :content_type => :xml
}
```

Credential

Credential objects can be created and referenced in ASM. These named credentials are used to gain access to the various Resources during the Discovery process. Credentials are also typed according to their target resource such as, Server, Storage, VCenter, IOM, Chassis, and SCVMM.

Get all defined Credentials

Default credentials are defined for several hardware types. These can be listed for the purpose of obtaining their reference id's needed for the Discovery process and to utilize as XML skeleton.

```
require 'ASMConfig'

url = ASM::API::URI('/Credential')
begin
  response = ASM::API::sign {
    RestClient.get url, :content_type => :xml
  }
  payload = ASM::Payload.from_xml(response)
  payload.save_xml('credentials.xml')
rescue RestClient::Exception => e
  print "Got exception with status: %d\n" % e.response.code
  print "%s\n" % e.response
end
```

Define new Credential

Define a new Server Credential using a skeleton file previously saved to a file.

```
require 'ASMConfig'

url = ASM::API::URI('/Credential')

cred = ASM::Payload::load_xml('credential_skeleton.xml')

# Set Credential parameters
```



```

cred.set('label', 'ServerX')
cred.set('username', 'admin')
cred.set('password', 'abc123')
cred.set('protocol', '')
cred.set('snmpCommunityString', '')

response = ASM::API::sign {
  RestClient.post url, cred.to_xml, :content_type => :xml
}

payload = ASM::Payload.from_xml(response)
credId = payload.get('id')

# Save it for future use as a payload
payload.save_xml("credential_%s.xml" % credId)

```

DiscoveryRequest

A DiscoveryRequest is a set of credential references and a set of IP ranges. A sweep of the given IP ranges will attempt to determine if Resources of the given types, specified by the credential types referenced in the request, exist at those IP addresses.

Discover Chassis and contained Blade Servers

Using the predefined chassis and server credentials, initiate a discovery request against an IP address that is known to belong to a Chassis.

```

require 'ASMConfig'

url = ASM::API::URI('/DiscoveryRequest')

# Get credential ids
creds = ASM::Payload::load_xml('credentials.xml')
server_cred = creds.doc.xpath('//serverCredential').select{|c|
  c.at_xpath('label').text == 'Dell PowerEdge Default'}.first.xpath('id').text
chassis_cred = creds.doc.xpath('//chassisCredential').select{|c|
  c.at_xpath('label').text == 'Dell chassis default'}.first.xpath('id').text

disc = ASM::Payload::load_xml('discovery_skeleton.xml')
disc.set('deviceStartIp', '172.17.4.17')
disc.set('deviceEndIp', '172.17.4.17')
disc.set('unmanaged', 'false')

disc.appendChild('DiscoverIPRangeDeviceRequest',
  'deviceChassisCredRef' => chassis_cred,
  'deviceServerCredRef' => server_cred,
  'bDiscoverDevicesInChassis' => 'true')

begin
  response = ASM::API::sign {
    RestClient.post url, disc.to_xml, :content_type => :xml
  }

  payload = ASM::Payload.from_xml(response)

# Get the job status
  jobStatus = payload.get('DiscoveryRequest/status')

```

```

    print "<status>%s</status>\n" % jobStatus

rescue RestClient::Exception => e
  print "Got exception with status: %d\n" % e.response.code
  print "%s\n" % e.response
end

```

ManagedDevice

ManagedDevice is a generic interface to any Resources on the network which is being managed by ASM. A successful discovery request results in the creation of instances of ManagedDevice.

Get all Managed Devices

Assuming the Discovery process succeeded, ASM will now know about some or all of the devices available on the network.

```

require 'ASMConfig'

url = ASM::API::URI('/ManagedDevice')

response = ASM::API::sign {
  RestClient.get url
}

doc = Nokogiri::XML(response)

# Print selected info for each device
print "%30s%15s%20s%20s%15s\n" % %w(ServiceTag State IP Model Type)
print
"-----\n"

doc.xpath('///ManagedDevice').sort_by{|d| d.at_xpath('deviceType').content}.each
do |device|

  svc_tag = device.at_xpath('serviceTag').content
  state = device.at_xpath('state').content
  ip_addr = device.at_xpath('ipAddress').content
  model = device.at_xpath('model').content
  dev_type = device.at_xpath('deviceType').content

  print "%30s%15s%20s%20s%15s\n" % [svc_tag, state, ip_addr, model, dev_type]

end

```

ServiceTemplate

A ServiceTemplate is a reusable structure that defines the network topology and components of a future service deployment. A trivial example template could be a single server component setup to run Linux. Deploying this template would result in a single server being chosen from the available discovered resources and installing Linux on it.

Get all ServiceTemplates

Here we retrieve all ServiceTemplates and output the names of those not in draft mode (published). The draft property determines if a template is in the published state. Only published templates can be deployed.

```
require 'ASMConfig'

url = ASM::API::URI('/ServiceTemplate')

result = ASM::API::sign {
  RestClient.get url
}
# Do some XML processing to find all published templates
doc = Nokogiri::XML(result)
templates = doc.xpath('//ServiceTemplate')
published = templates.select{|t| t.at_xpath('draft').content == 'false'}
template_names = published.collect{|t| t.at_xpath('templateName').content}

print "Published Templates:\n"
template_names.each{|name| print "%s\n" % name}
```

Get a ServiceTemplate by name

Here we retrieve an existing ServiceTemplate from ASM named 'TwoServers' by passing the 'filter' query parameter. See the detail for ServiceTemplate in Appendix B for the full list of names that can be sorted and filtered on. Note that even if the template name is unique this method will always return a container around the result(s). For example, in the case of XML the root element is <ServiceTemplates>.

```
require 'ASMConfig'

url = ASM::API::URI('/ServiceTemplate')

template_name = 'TwoServers'
template_filter = "eq,name,#{template_name}"

response = ASM::API::sign {
  RestClient.get url, {:params=>{:filter=>template_filter}}
}
```

The response object is not shown for this example because it is too verbose. However, within the ServiceTemplate XML are parameters designated with the element <requiredAtDeploy>. If this value is true, then this parameter will be required when this ServiceTemplate is deployed. Otherwise the parameter is optional. For example, the server host name is required in this extracted snippet of the ServiceTemplate. Save the result above to a file inspect the full XML for a ServiceTemplate.

```
<parameters>
  <id>os_host_name</id>
  <value/>
  <type>STRING</type>
  <displayName>Host Name</displayName>
  <required>true</required>
  <requiredAtDeployment>true</requiredAtDeployment>
  <hideFromTemplate>true</hideFromTemplate>
  <min>0</min>
  <max>0</max>
```

```

    <dependencyTarget>generate_host_name</dependencyTarget>
    <dependencyValue>>false</dependencyValue>
  </parameters>

```

Publish a ServiceTemplate

In order to use a ServiceTemplate to deploy a Service, the ServiceTemplate must be first *published*. This is accomplished by setting the ServiceTemplate element <draft> to false. i.e. it is no longer in the draft state.

```

require 'ASMConfig'

templateId = "ff8080814be03f17014bea250f100b7d"
url = ASM::API::URI("/ServiceTemplate/%s"%templateId)

response = ASM::API::sign {
  RestClient.get url
}
# Set draft to false
payload = ASM::Payload.from_xml(response)
payload.set('/draft', 'false')

# Send it back as a PUT
response = ASM::API::sign {
  RestClient.put url, payload.to_xml, :content_type => :xml
}

```

Deployment

While the ASM UI refers to a Service, the REST API resource is not Service, but rather Deployment. The two terms are synonymous. Deployments require an instance of a ServiceTemplate with its required parameters supplied.

Get all deployed Services

```

require 'ASMConfig'

response = ASM::API::sign {
  url = ASM::API::URI("/Deployment")
  RestClient.get url
}

doc = Nokogiri::parse(response)

doc.xpath('//Deployment').each do |deploy|
  id = deploy.at_xpath('id').content
  name = deploy.at_xpath('deploymentName').content
  status = deploy.at_xpath('jobStatus').content
  print "%s : %s : %s\n" % [id,name,status]
end

```

After getting all Services we print the id, name, and status of each. Services that are still in the act of being deployed will have a status of IN_PROGRESS. So calling this method with the Deployment Id as a path parameter can also be used to periodically poll a Deployment to find out when it has finished.

Deploy a new Service

Here, after having previously gotten an existing ServiceTemplate by name, and saved it to a file, we then set the required parameters in the ServiceTemplate file, and finally embed the ServiceTemplate into a prefabricated Deployment structure that is read from a file. As mentioned previously we can monitor the status of this Deployment by performing a GET with the deployment id as a path parameter.

```
require 'ASMConfig'

url = ASM::API::URI('/Deployment')

template_name = 'TwoServers'
template = ASM::Payload::load_xml("%s.xml"%template_name)

deployment = ASM::Payload::load_xml('deployment_skeleton.xml')

# Set Deployment parameters
deployment.set("deploymentName", 'ManualAPIDeploymentDeux')
deployment.set("deploymentDescription", 'Manual API Deployment')
deployment.set("numberOfDeployments", '1')

# Inject the template into the deployment
deployment.replaceInner('serviceTemplate',
  template.doc.at_xpath('ServiceTemplate'))
deployment.save_xml('deploy_payload.xml')

response = ASM::API::sign {
  RestClient.post url, deployment.to_xml, :content_type => :xml
}
doc = Nokogiri::parse(response)
deploymentId = doc.xpath('//Deployment/id').text

print "<id>%s</id>\n" % deploymentId
```

Tear down a Service

In order to completely tear down a Service we set the teardown element to true for all components in the Deployment plus the Deployment itself, and then we PUT this Deployment back to ASM.

```
require 'ASMConfig'

deploymentId = "ff8080814aba74ce014ac455e9b80951"
url = ASM::API::URI("/Deployment/%s"%deploymentId)

response = ASM::API::sign {
  RestClient.get url
}
payload = ASM::Payload.from_xml(response)
payload.set('Deployment/teardown', 'true')
payload.set_all('components/teardown', 'true')
payload.save_xml('teardown.xml')

response = ASM::API::sign {
  RestClient.put url, payload.to_xml, :content_type => :xml
}
doc = Nokogiri::parse(response)
deploymentId = doc.xpath('//Deployment/id').text
```

```

jobStatus = doc.xpath('//Deployment/jobStatus').text
print "<jobStatus>%s</jobStatus>\n" % jobStatus

```

Firmware

Firmware versions reported by individual resource components are compared against a firmware repository to determine if component firmware is up-to-date with the latest required versions.

Check Firmware compliance of all Resources

Here we check the firmware compliance state of all resources. Note this is done by the POST method and supplying a ManagedDevice as the request body. The response is the same ManagedDevice with the addition of a compliance field.

```

require 'ASMConfig'

# Get all managed devices
url = ASM::API::URI('/ManagedDevice')
response = ASM::API::sign {
  RestClient.get url
}
doc = Nokogiri::XML(response)

doc.xpath('//ManagedDevice').each do |device|

  url = ASM::API::URI('/FirmwareRepository/compliance')

  begin
    response = ASM::API::sign {
      RestClient.post url, device.to_xml, :content_type => :xml
    }

    doc2 = Nokogiri::XML(response)

    serviceTag = doc2.at_xpath('//serviceTag').content
    compliance = doc2.at_xpath('//compliance').content

    print "Device %s firmware is %s\n" % [serviceTag,compliance]

  rescue RestClient::Exception => e
    print "Got exception with status: %d\n" % e.response.code
    print "%s\n" % e.response
  end
end

```

Exception Handling

When an HTTP error code is returned the response payload will contain information about the error that occurred. For the purpose of illustration the following exception response was intentionally generated by trying to get a ServiceTemplate with an id that doesn't exist. In this case the HTTP response was 404 and the XML response is below. See the API reference section for the relevant HTTP responses that may be returned by each REST endpoint.

The example code used to catch this exception and report the error is below.

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<AsmDetailedMessageList>
  <Messages>
    <messages>
      <messageBundle>AsmManagerMessages</messageBundle>
      <messageCode>ASM0042</messageCode>
      <severity>ERROR</severity>
      <category>USER_FACING</category>
      <displayMessage>Unable to find the Template Id: ABC.</displayMessage>
      <responseAction>Make sure that a correct Template Id is entered and retry
the operation. Template Ids are case sensitive. Verify the list of devices
under the Summary tab to make sure whether or not the Template already exists.</
responseAction>
      <detailedMessage>The Template Id cannot be found.</detailedMessage>
      <agentId>ASM Manager</agentId>
      <timeStamp>2015-03-10T14:34:24.866Z</timeStamp>
      <sequenceNumber>0</sequenceNumber>
    </messages>
  </Messages>
</AsmDetailedMessageList>

require 'ASMConfig'

templateId = "ABC" // bogus id
url = ASM::API::URI("/ServiceTemplate/%s"%templateId)

begin
  response = ASM::API::sign {
    RestClient.get url
  }
rescue RestClient::Exception => e
  print "Got exception with status: %d\n" % e.response.code
  print "%s\n" % e.response
end
```

Appendix A - API Reference

/Authenticate/ POST

Description

Confirm User access credentials

Method

POST

Response Class

AuthenticateResponse

Response Content-Type: application/json, application/xml

Parameters

| Parameter | Value | Description | Default Value | Parameter Type | Data Type |
|-----------|------------|---|---------------|----------------|---------------------|
| body | (required) | Description of user to be authenticated | N/A | body | AuthenticateRequest |

Response Status Codes

| HTTP Status Code | Reason |
|------------------|---|
| 201 | Authentication successful |
| 401 | User not found, domain not found or password does not match |

/Chassis/ GET

Description

Retrieve a list a Chassis Devices

Method

GET

Response Class

[Chassis]

Response Content-Type: application/xml, application/json

Parameters

| Parameter | Value | Description | Default Value | Parameter Type | Data Type |
|-----------|-------|---|---------------|----------------|-----------|
| sort | N/A | Valid sort columns: health,managementIP,serviceTag,credentialRefId | N/A | query | string |
| filter | N/A | Valid filter columns: health,managementIP,serviceTag,credentialRefId | N/A | query | array |
| offset | N/A | Specify pagination offset | 0 | query | integer |
| limit | N/A | Specify page limit | 50 | query | integer |

Response Status Codes

| HTTP Status Code | Reason |
|------------------|--|
| 200 | Retrieved |
| 400 | Bad Request, verify input parameters are correct |
| 401 | No login information specified in the request |

| HTTP Status Code | Reason |
|------------------|--|
| 403 | User doesn't have privileges to access this operation |
| 500 | Server Internal Error, contact your system administrator |

/Chassis/{refId} PUT

Description

Update The Chasis configuration

Method

PUT

Response Class

Chassis

Response Content-Type: application/xml, application/json

Parameters

| Parameter | Value | Description | Default Value | Parameter Type | Data Type |
|-----------|------------|-------------------------|---------------|----------------|-----------|
| body | (required) | Chassis to update | N/A | body | Chassis |
| refId | (required) | Id of Chassis to update | N/A | path | string |

Response Status Codes

| HTTP Status Code | Reason |
|------------------|--|
| 204 | Update completed successfully |
| 400 | Problem with the update data, check error response for details |
| 404 | Chassis not found |

/Chassis/{refId} GET

Description

Retrieve an individual Chassis Device

Method

GET

Response Class

Chassis

Response Content-Type: application/xml, application/json

Parameters

| Parameter | Value | Description | Default Value | Parameter Type | Data Type |
|-----------|------------|-------------|---------------|----------------|-----------|
| refId | (required) | Device Id | N/A | path | string |

Response Status Codes

| HTTP Status Code | Reason |
|------------------|--|
| 200 | retrieved |
| 400 | Bad Request, verify Device id is correct |
| 404 | Bad Request, verify Device id is correct |

/Chassis/{refId} DELETE

Description

Deletes an existing Chassis Device

Method

DELETE

Response Class

void

Response Content-Type: application/xml, application/json

Parameters

| Parameter | Value | Description | Default Value | Parameter Type | Data Type |
|-----------|------------|-------------|---------------|----------------|-----------|
| refId | (required) | Device Id | N/A | path | string |

Response Status Codes

| HTTP Status Code | Reason |
|------------------|---|
| 204 | deleted |
| 400 | Bad Request, verify Device id is correct. |

/Chassis/{refId}/sensorlog DELETE

Description

Clear an individual Chassis Device Sensor Event Logs

Method

DELETE

Response Class

void

Response Content-Type: application/xml, application/json

Parameters

| Parameter | Value | Description | Default Value | Parameter Type | Data Type |
|-----------|------------|-------------|---------------|----------------|-----------|
| refId | (required) | Device Id | N/A | path | string |

Response Status Codes

| HTTP Status Code | Reason |
|------------------|--|
| 204 | updated |
| 400 | Bad Request, verify Device object is correct |
| 404 | Bad Request, verify Device Id is correct |

/Chassis/{refId}/sensorlog GET

Description

Retrieve an individual Chassis Device Sensor Event Logs

Method

GET

Response Class

[ChassisLogEntry]

Response Content-Type: application/xml, application/json

Parameters

| Parameter | Value | Description | Default Value | Parameter Type | Data Type |
|-----------|------------|-------------|---------------|----------------|-----------|
| refId | (required) | Device Id | N/A | path | string |

Response Status Codes

| HTTP Status Code | Reason |
|------------------|--|
| 200 | retrieved |
| 400 | Bad Request, verify Device id is correct |
| 404 | Bad Request, verify Device id is correct |

/Chassis/{serviceTag}/{type} GET

Description

Retrieve a Chassis Device associated to a specific Server or IOM

Method

GET

Response Class

Chassis

Response Content-Type: application/xml, application/json

Parameters

| Parameter | Value | Description | Default Value | Parameter Type | Data Type |
|------------|------------|-------------|---------------|----------------|-----------|
| serviceTag | (required) | Service Tag | N/A | path | string |
| type | (required) | Type | N/A | path | string |

Response Status Codes

| HTTP Status Code | Reason |
|------------------|--|
| 200 | retrieved |
| 400 | Bad Request, verify Service tag and Type are correct |
| 404 | Bad Request, verify Service tag and Type are correct |

/Chassis/{serviceTag}/{type} DELETE

Description

Deletes an existing server or IOA in chassis

Method

DELETE

Response Class

void

Response Content-Type: application/xml, application/json

Parameters

| Parameter | Value | Description | Default Value | Parameter Type | Data Type |
|------------|------------|-------------|---------------|----------------|-----------|
| serviceTag | (required) | Service Tag | N/A | path | string |
| type | (required) | Type | N/A | path | string |

Response Status Codes

| HTTP Status Code | Reason |
|------------------|---|
| 204 | deleted |
| 400 | Bad Request, verify Device id is correct. |

/Chassis/iom/ip/{ip} GET

Description

Retrieve an individual IOM Device

Method

GET

Response Class

IOM

Response Content-Type: application/xml, application/json

Parameters

| Parameter | Value | Description | Default Value | Parameter Type | Data Type |
|-----------|------------|-------------|---------------|----------------|-----------|
| ip | (required) | Device IP | N/A | path | string |

Response Status Codes

| HTTP Status Code | Reason |
|------------------|--|
| 200 | retrieved |
| 400 | Bad Request, verify Device IP is correct |
| 404 | Bad Request, verify Device IP is correct |

/Credential/ POST

Description

Add a new credential

Method

POST

Response Class

credential

Response Content-Type: application/xml, application/json

Parameters

| Parameter | Value | Description | Default Value | Parameter Type | Data Type |
|-----------|------------|----------------------|---------------|----------------|------------|
| body | (required) | Credential to create | N/A | body | credential |

Response Status Codes

| HTTP Status Code | Reason |
|------------------|---|
| 201 | Credential created |
| 400 | Bad Request, verify credential data object is correct |

/Credential/ GET

Description

Retrieve a list of credentials

Method

GET

Response Class

credentials

Response Content-Type: application/xml, application/json

Parameters

| Parameter | Value | Description | Default Value | Parameter Type | Data Type |
|-----------|-------|---------------------------|---------------|----------------|------------------------------|
| type | N/A | filter on credential type | N/A | query | com.dell.asm.encryptedmgr.cl |

| Parameter | Value | Description | Default Value | Parameter Type | Data Type |
|-----------|-------|---|---------------|----------------|---------------------|
| | | | | | ient.CredentialType |
| sort | N/A | Specify sort columns in a comma separated list of column names to sort. Default order is ascending. Column name can be prefixed with a minus sign to indicate descending for that column. | N/A | query | string |
| filter | N/A | Specify filter criteria, Example co,label,default | N/A | query | array |
| offset | N/A | Specify pagination offset | 0 | query | integer |
| limit | N/A | Specify page limit, can not exceed system maximum limit. | 50 | query | integer |

Response Status Codes

| HTTP Status Code | Reason |
|------------------|--------|
| 200 | OK |

/Credential/{id} PUT

Description

Updates an existing credential

Method

PUT

Response Class

credential

Response Content-Type: application/xml, application/json

Parameters

| Parameter | Value | Description | Default Value | Parameter Type | Data Type |
|-----------|------------|----------------------------|---------------|----------------|------------|
| body | (required) | Credential to update | N/A | body | credential |
| id | (required) | Id of credential to update | N/A | path | string |

Response Status Codes

| HTTP Status Code | Reason |
|------------------|---|
| 200 | Update completed successfully |
| 400 | Bad Request, verify credential data object is correct |
| 404 | Credential to be updated was not found. |

/Credential/{id} DELETE

Description

Deletes an existing credential

Method

DELETE

Response Class

void

Response Content-Type: application/xml, application/json

Parameters

| Parameter | Value | Description | Default Value | Parameter Type | Data Type |
|-----------|------------|----------------------------|---------------|----------------|-----------|
| id | (required) | Id of credential to delete | N/A | path | string |

Response Status Codes

| HTTP Status Code | Reason |
|------------------|--|
| 204 | Delete completed successfully |
| 400 | Bad Request, verify credential id is correct |

/Credential/{id} PUT

Description

Updates an existing credential

Method

PUT

Response Class

credential

Response Content-Type: application/xml, application/json

Parameters

| Parameter | Value | Description | Default Value | Parameter Type | Data Type |
|-----------|------------|----------------------------|---------------|----------------|------------|
| body | (required) | Credential to update | N/A | body | credential |
| id | (required) | Id of credential to update | N/A | path | string |

Response Status Codes

| HTTP Status Code | Reason |
|------------------|---|
| 200 | Update completed successfully |
| 400 | Bad Request, verify credential data object is correct |
| 404 | Credential to be updated was not found. |

/Deployment/ POST

Description

Create new Deployment

Method

POST

Response Class

Deployment

Response Content-Type: application/xml, application/json

Parameters

| Parameter | Value | Description | Default Value | Parameter Type | Data Type |
|-----------|-------|--------------------------|---------------|----------------|------------|
| body | N/A | Deployment to be created | N/A | body | Deployment |

Response Status Codes

| HTTP Status Code | Reason |
|------------------|--|
| 201 | Deployment created |
| 400 | Invalid Parameters to create Deployment or problems with the Resource Adapters |
| 409 | Deployment already exists |

/Deployment/ GET

Description

Retrieve all Deployments with filter, sort, paginate which returns Array of Deployment class

Method

GET

Response Class

[Deployment]

Response Content-Type: application/xml, application/json

Parameters

| Parameter | Value | Description | Default Value | Parameter Type | Data Type |
|-----------|-------|---|---------------|----------------|-----------|
| sort | N/A | Valid sort columns: name,createdBy,createdDate,updatedBy,updatedDate,expirationDate,deploymentDesc,marchalledTemplateData,health | N/A | query | string |
| filter | N/A | Filter Criteria | N/A | query | array |
| offset | N/A | Pagination Offset | 0 | query | integer |
| limit | N/A | Page Limit | 50 | query | integer |

Response Status Codes

| HTTP Status Code | Reason |
|------------------|--|
| 200 | All Deployment Retrieved on filter, sort, paginate |

/Deployment/{id} PUT

Description

Update Deployment

Method

PUT

Response Class

Deployment

Response Content-Type: application/xml, application/json

Parameters

| Parameter | Value | Description | Default Value | Parameter Type | Data Type |
|-----------|------------|-----------------------------|---------------|----------------|------------|
| body | N/A | Deployment to be updated to | N/A | body | Deployment |
| id | (required) | Deployment Id (String) | N/A | path | string |

Response Status Codes

| HTTP Status Code | Reason |
|------------------|---|
| 204 | Deployment updated |
| 400 | Invalid Parameters to Update Deployment or problem with the Resource Adapters |
| 404 | Deployment not found |

/Deployment/{id} GET

Description

Retrieve Deployment based on deployment ID

Method

GET

Response Class

Deployment

Response Content-Type: application/xml, application/json

Parameters

| Parameter | Value | Description | Default Value | Parameter Type | Data Type |
|-----------|------------|------------------------|---------------|----------------|-----------|
| id | (required) | Deployment Id (String) | N/A | path | string |

Response Status Codes

| HTTP Status Code | Reason |
|------------------|----------------------|
| 200 | Deployment retrived |
| 404 | Deployment not found |

/Deployment/{id} DELETE

Description

Delete Deployment -- this operation is idempotent

Method

DELETE

Response Class

void

Response Content-Type: application/xml, application/json

Parameters

| Parameter | Value | Description | Default Value | Parameter Type | Data Type |
|-----------|------------|------------------------|---------------|----------------|-----------|
| id | (required) | Deployment Id (String) | N/A | path | string |

Response Status Codes

| HTTP Status Code | Reason |
|------------------|------------------------------|
| 204 | Deployment deleted |
| 500 | Unable to delete Deployment. |

/Deployment/migrate/{serviceId}/{serverId} PUT

Description

Migrate Deployment based on deployment ID

Method

PUT

Response Class

Deployment

Response Content-Type: application/xml, application/json

Parameters

| Parameter | Value | Description | Default Value | Parameter Type | Data Type |
|-----------|------------|------------------------|---------------|----------------|-----------|
| body | N/A | Deployment Id (String) | N/A | body | string |
| serverId | (required) | | N/A | path | string |
| serviceId | (required) | | N/A | path | string |

Response Status Codes

| HTTP Status Code | Reason |
|------------------|----------------------|
| 200 | Deployment migrated |
| 404 | Deployment not found |

/DiscoveryRequest/ GET

Description

Retrieve a Array of DiscoveryRequest

Method

GET

Response Class

[DiscoveryRequest]

Response Content-Type: application/xml, application/json

Parameters

| Parameter | Value | Description | Default Value | Parameter Type | Data Type |
|-----------|-------|---|---------------|----------------|-----------|
| sort | N/A | Valid sort columns: id,status,status Message | N/A | query | string |
| filter | N/A | filter criteria | N/A | query | array |
| offset | N/A | pagination offset | N/A | query | integer |
| limit | N/A | page limit | N/A | query | integer |

Response Status Codes

| HTTP Status Code | Reason |
|------------------|--|
| 400 | Problem with a query parameter, check response for details |

/DiscoveryRequest/ POST

Description

discover devices of Ip range

Method

POST

Response Class

DiscoveryRequest

Response Content-Type: application/xml, application/json

Parameters

| Parameter | Value | Description | Default Value | Parameter Type | Data Type |
|-----------|-------|-------------|---------------|----------------|------------------|
| body | N/A | | N/A | body | DiscoveryRequest |

Response Status Codes

| HTTP Status Code | Reason |
|------------------|---|
| 202 | Create the discovery resource |
| 400 | Bad Request, verify Discovery request object is correct |

/DiscoveryRequest/{id} GET

Description

Retrieve Device from Inventory based on Id

Method

GET

Response Class

DiscoveryRequest

Response Content-Type: application/xml, application/json

Parameters

| Parameter | Value | Description | Default Value | Parameter Type | Data Type |
|-----------|------------|--------------|---------------|----------------|-----------|
| id | (required) | Discovery ID | N/A | path | string |

Response Status Codes

| HTTP Status Code | Reason |
|------------------|--|
| 200 | Discovery result retrieved for the job |
| 400 | Bad Request, verify sort, filter, and pagination are valid |
| 404 | Job not found in the discovery |

/DiscoveryRequest/{id} DELETE

Description

Delete Device from Discover result -- this operation is idempotent

Method

DELETE

Response Class

void

Response Content-Type: application/xml, application/json

Parameters

| Parameter | Value | Description | Default Value | Parameter Type | Data Type |
|-----------|------------|--------------|---------------|----------------|-----------|
| id | (required) | Discovery ID | N/A | path | string |

Response Status Codes

| HTTP Status Code | Reason |
|------------------|----------------------------|
| 204 | Job deleted from inventory |

/DiscoveryRequest/chassislist POST

Description

discover devices of Ip range

Method

POST

Response Class

DiscoveryRequest

Response Content-Type: application/xml, application/json

Parameters

| Parameter | Value | Description | Default Value | Parameter Type | Data Type |
|-----------|-------|-------------|---------------|----------------|------------------|
| body | N/A | | N/A | body | DiscoveryRequest |

Response Status Codes

| HTTP Status Code | Reason |
|------------------|---|
| 202 | Create the discovery resource |
| 400 | Bad Request, verify Discovery request object is correct |

/DiscoveryRequest/discoveryresult/{id} GET

Description

Retrieve a Array of DiscoveryResults

Method

GET

Response Class

[DiscoveryResult]

Response Content-Type: application/xml, application/json

Parameters

| Parameter | Value | Description | Default Value | Parameter Type | Data Type |
|-----------|------------|-------------|---------------|----------------|-----------|
| id | (required) | ref_id | N/A | path | string |

Response Status Codes

| HTTP Status Code | Reason |
|------------------|--|
| 400 | Problem with a query parameter, check response for details |

/ManagedDevice/ GET

Description

Retrieve all Devices from Inventory with filter.

Method

GET

Response Class

[ManagedDevice]

Response Content-Type: application/xml, application/json

Parameters

| Parameter | Value | Description | Default Value | Parameter Type | Data Type |
|-----------|-------|--|---------------|----------------|-----------|
| sort | N/A | Valid sort columns: displayName,serviceTag,refId,health,refType,deviceType,ipAddress,state,model model ,statusMessage,createdAt,createdBy,updatedAt,updatedAtBy,healthMessage,compliant,infraTemplateDate,infraTemplateId,serverTemplateDate,serverTemplateId,inventoryDate,complianceCheckDate,discoveredDate,identityRef,vendor | N/A | query | string |
| filter | N/A | Filter Criteria | N/A | query | array |
| offset | N/A | Pagination Offset | 0 | query | integer |
| limit | N/A | Page Limit | 50 | query | integer |

Response Status Codes

| HTTP Status Code | Reason |
|------------------|--|
| 200 | Device(s) retrieved from inventory on filter, sort, paginate |

/ManagedDevice/ POST

Description

Create Device in Inventory, return array of Managed Devices created

Method

POST

Response Class

[ManagedDevice]

Response Content-Type: application/xml, application/json

Parameters

| Parameter | Value | Description | Default Value | Parameter Type | Data Type |
|-----------|-------|-------------|---------------|----------------|---|
| body | N/A | | N/A | body | [Lcom.dell.asm.asmcore.asmm anager.client.de viceinventory.M anagedDevice; |

Response Status Codes

| HTTP Status Code | Reason |
|------------------|---|
| 201 | Devices created in inventory |
| 400 | Invalid Device to create in inventory, first error encountered error causes an error response to return. Call will not return a list of errors. |
| 409 | Device already exists in inventory, first error encountered error causes an error response to return. Call will not return a list of errors. |

/ManagedDevice/{refId} DELETE

Description

Delete Device from Inventory -- this operation is idempotent

Method

DELETE

Response Class

ManagedDevice

Response Content-Type: application/xml, application/json

Parameters

| Parameter | Value | Description | Default Value | Parameter Type | Data Type |
|-------------|------------|--------------|---------------|----------------|-----------|
| refId | (required) | Reference Id | N/A | path | string |
| forceDelete | N/A | Force Delete | false | query | boolean |

Response Status Codes

| HTTP Status Code | Reason |
|------------------|--------------------------------------|
| 204 | Device deleted from inventory |
| 400 | Unable to delete from RA's inventory |

/ManagedDevice/{refId} PUT

Description

Update Device in Inventory

Method

PUT

Response Class

void

Response Content-Type: application/xml, application/json

Parameters

| Parameter | Value | Description | Default Value | Parameter Type | Data Type |
|-----------|------------|-------------------------|---------------|----------------|---------------|
| body | N/A | Device to be updated to | N/A | body | ManagedDevice |
| refId | (required) | Reference Id | N/A | path | string |

Response Status Codes

| HTTP Status Code | Reason |
|------------------|-------------------------------|
| 201 | Device updated in inventory |
| 400 | Invalid Device |
| 404 | Device not found in inventory |

/ManagedDevice/{refId} GET

Description

Retrieve Device from Inventory based on refId

Method

GET

Response Class

ManagedDevice

Response Content-Type: application/xml, application/json

Parameters

| Parameter | Value | Description | Default Value | Parameter Type | Data Type |
|-----------|------------|--------------|---------------|----------------|-----------|
| refId | (required) | Reference Id | N/A | path | string |

Response Status Codes

| HTTP Status Code | Reason |
|------------------|---------------------------------|
| 200 | Device retrieved from inventory |
| 404 | Device not found in inventory |

/ManagedDevice/count GET

Description

Retrieve Device total count

Method

GET

Response Class

ManagedDevice

Response Content-Type: application/xml, application/json

Parameters

| Parameter | Value | Description | Default Value | Parameter Type | Data Type |
|-----------|-------|-----------------|---------------|----------------|-----------|
| filter | N/A | Filter Criteria | N/A | query | array |

Response Status Codes

| HTTP Status Code | Reason |
|------------------|---------------------------------------|
| 200 | Device Count retrieved from inventory |

/ManagedDevice/firmware PUT

Description

Update Device Firmware

Method

PUT

Response Class

void

Response Content-Type: application/xml, application/json

Parameters

| Parameter | Value | Description | Default Value | Parameter Type | Data Type |
|-----------|-------|-------------|---------------|----------------|-----------------------|
| body | N/A | | N/A | body | FirmwareUpdateRequest |

Response Status Codes

| HTTP Status Code | Reason |
|------------------|-------------------------------|
| 201 | Device updated Firmware |
| 400 | Invalid Device |
| 404 | Device not found in inventory |

/ManagedDevice/puppet/{certName} GET

Description

Retrieve Device from Inventory based on certName

Method

GET

Response Class

ManagedDevice

Response Content-Type: application/xml, application/json

Parameters

| Parameter | Value | Description | Default Value | Parameter Type | Data Type |
|-----------|------------|------------------|---------------|----------------|-----------|
| certName | (required) | Certificate Name | N/A | path | string |

Response Status Codes

| HTTP Status Code | Reason |
|------------------|---------------------------------|
| 200 | Device retrieved from inventory |
| 404 | Device not found in inventory |

/ManagedDevice/puppet/{certName} PUT

Description

Update Device in Inventory

Method

PUT

Response Class

void

Response Content-Type: application/xml, application/json

Parameters

| Parameter | Value | Description | Default Value | Parameter Type | Data Type |
|-----------|------------|-------------------------|---------------|----------------|---------------|
| body | N/A | Device to be updated to | N/A | body | ManagedDevice |
| certName | (required) | Certificate Name | N/A | path | string |

Response Status Codes

| HTTP Status Code | Reason |
|------------------|-------------------------------|
| 201 | Device updated in inventory |
| 400 | Invalid Device |
| 404 | Device not found in inventory |

/Network/ GET

Description

Retrieve networks

Method

GET

Response Class

[Network]

Response Content-Type: application/json, application/xml

Parameters

| Parameter | Value | Description | Default Value | Parameter Type | Data Type |
|-----------|-------|---|---------------|----------------|-----------|
| sort | N/A | Specify sort columns(Supported columns are:name,description,type,vlanId,createdBy,createdAtDate,updatedAtDate,updatedBy,updatedDate) in a comma separated list of column names to sort. Default order is ascending. Column name can be prefixed with a minus sign to indicate descending for that column. | N/A | query | string |
| filter | N/A | Specify filter criteria(Supported columns are:name,description,type,vlanId,createdBy,updatedAtDate,createdAtDate,updatedDate(For dates supports only eq filter also the format of input should be dd-MM-yyyy)), Example co,name,CorporateNetwork | N/A | query | array |
| offset | N/A | Specify pagination offset | 0 | query | integer |
| limit | N/A | Specify page limit, cannot | 50 | query | integer |

| Parameter | Value | Description | Default Value | Parameter Type | Data Type |
|-----------|-------|---------------------------|---------------|----------------|-----------|
| | | exceed system limit of 50 | | | |

Response Status Codes

| HTTP Status Code | Reason |
|------------------|--|
| 200 | Networks is retrieved |
| 400 | Problem with a query parameter, check response for details |
| 404 | Networks not found |

/Network/ POST

Description

Add a new network

Method

POST

Response Class

Network

Response Content-Type: application/json, application/xml

Parameters

| Parameter | Value | Description | Default Value | Parameter Type | Data Type |
|-----------|------------|--|---------------|----------------|-----------|
| body | (required) | Network object that needs to be added to ASM | N/A | body | Network |

Response Status Codes

| HTTP Status Code | Reason |
|------------------|---|
| 201 | Network created |
| 400 | Invalid input or network supplied or verify other input data is correct |
| 409 | Network already exists |

/Network/{networkId} DELETE

Description

Delete an existing network

Method

DELETE

Response Class

void

Response Content-Type: application/xml, application/json

Parameters

| Parameter | Value | Description | Default Value | Parameter Type | Data Type |
|-----------|------------|-------------------------|---------------|----------------|-----------|
| networkId | (required) | Id of network to delete | N/A | path | string |

Response Status Codes

| HTTP Status Code | Reason |
|------------------|------------------------------|
| 204 | Network deleted successfully |
| 400 | Invalid network id supplied |

/Network/{networkId} PUT

Description

Update an existing network

Method

PUT

Response Class

void

Response Content-Type: application/xml, application/json

Parameters

| Parameter | Value | Description | Default Value | Parameter Type | Data Type |
|-----------|------------|--|---------------|----------------|-----------|
| body | (required) | Network object that contains update fields | N/A | body | Network |
| networkId | (required) | Id of network to update | N/A | path | string |

Response Status Codes

| HTTP Status Code | Reason |
|------------------|--|
| 204 | Network updated successfully |
| 400 | Invalid input for id or network supplied or verify other input data is correct |
| 404 | Network not found |
| 409 | Network with similar name already exists |

/Network/{networkId} GET

Description

Find a network by id

Method

GET

Response Class

Network

Response Content-Type: application/json, application/xml

Parameters

| Parameter | Value | Description | Default Value | Parameter Type | Data Type |
|-----------|------------|---------------------------|---------------|----------------|-----------|
| networkId | (required) | Id of network to retrieve | N/A | path | string |

Response Status Codes

| HTTP Status Code | Reason |
|------------------|--------------------------------|
| 200 | Network retrieved successfully |
| 404 | Network not found |

/Network/ipAddress/assign PUT

Description

Assigns a list of ip addresses to a usage Guid

Method

PUT

Response Class

string

Response Content-Type: application/json, application/xml

Parameters

| Parameter | Value | Description | Default Value | Parameter Type | Data Type |
|-----------------|------------|--|---------------|----------------|-----------|
| networkId | (required) | Id of network to update | N/A | query | string |
| numberToReserve | (required) | Number of ip addresses to reserve | N/A | query | integer |
| usageGUID | (required) | Usage GUID to associate with ipAddress | N/A | query | string |

Response Status Codes

| HTTP Status Code | Reason |
|------------------|------------------------------------|
| 204 | IP Addresses assigned successfully |
| 400 | Invalid network id supplied |

/Network/ipAddress/release PUT

Description

Releases ip addresses assigned to a usage guid

Method

PUT

Response Class

void

Response Content-Type: application/xml, application/json

Parameters

| Parameter | Value | Description | Default Value | Parameter Type | Data Type |
|-----------|------------|--|---------------|----------------|-----------|
| usageGUID | (required) | Usage GUID associated with ipAddress(es) | N/A | query | string |

Response Status Codes

| HTTP Status Code | Reason |
|------------------|---|
| 204 | Released IP addresses successfully |
| 400 | Invalid input for usageGUID |
| 404 | Reservation associated with usageGUID not found |

/NTP/ DELETE

Description

Turn off NTP settings on ASM appliance

Method

DELETE

Response Class

void

Response Content-Type: application/json, application/xml

Response Status Codes

| HTTP Status Code | Reason |
|------------------|---|
| 204 | Successfully set the NTP settings to off. |
| 500 | Unable to turn off NTP settings on the ASM appliance. |

/NTP/ PUT

Description

Apply NTP settings on ASM appliance

Method

PUT

Response Class

void

Response Content-Type: application/json, application/xml

Parameters

| Parameter | Value | Description | Default Value | Parameter Type | Data Type |
|-----------|------------|---|---------------|----------------|-------------|
| body | (required) | NTPSetting object that needs to be set on ASM appliance | N/A | body | ntpSettings |

Response Status Codes

| HTTP Status Code | Reason |
|------------------|--|
| 204 | Successfully set the NTP settings to on. |
| 500 | Unable to turn on NTP settings on the ASM appliance. |

/NTP/ GET

Description

Retrieve NTP settings from ASM appliance

Method

GET

Response Class

ntpSettings

Response Content-Type: application/json, application/xml

Response Status Codes

| HTTP Status Code | Reason |
|------------------|---|
| 200 | Retrieved NTP settings from ASM appliance successfully. |
| 500 | Unable to get NTP settings from the ASM appliance. |

/Proxy/ GET

Description

Retrieve proxy settings from ASM appliance

Method

GET

Response Class

proxySettings

Response Content-Type: application/json, application/xml

Response Status Codes

| HTTP Status Code | Reason |
|------------------|--|
| 200 | ASM appliance proxy settings retrieved successfully |
| 500 | Unable to retrieve proxy settings from ASM appliance |

/Proxy/ PUT

Description

Set the proxy settings on ASM appliance

Method

PUT

Response Class

proxySettings

Response Content-Type: application/json, application/xml

Parameters

| Parameter | Value | Description | Default Value | Parameter Type | Data Type |
|-----------|------------|---|---------------|----------------|---------------|
| body | (required) | ProxySetting object that needs to be set on ASM appliance | N/A | body | proxySettings |

Response Status Codes

| HTTP Status Code | Reason |
|------------------|---|
| 200 | Proxy settings set successfully in ASM appliance |
| 500 | Unable to set the proxy settings in ASM appliance |

/Proxy/test POST

Description

Retrieve proxy settings from ASM appliance

Method

POST

Response Class

testProxyResponse

Response Content-Type: application/json, application/xml

Parameters

| Parameter | Value | Description | Default Value | Parameter Type | Data Type |
|-----------|------------|--|---------------|----------------|---------------|
| body | (required) | ProxySetting object that needs to be tested on ASM appliance | N/A | body | proxySettings |

Response Status Codes

| HTTP Status Code | Reason |
|------------------|---|
| 200 | Passed test for proxy settings defined in ASM appliance |
| 500 | Unable to test proxy settings defined in ASM appliance |

/ServerPool/ POST

Description

Add a new pool

Method

POST

Response Class

Pool

Response Content-Type: application/json, application/xml

Parameters

| Parameter | Value | Description | Default Value | Parameter Type | Data Type |
|-----------|------------|---|---------------|----------------|-----------|
| body | (required) | Pool object that needs to be added to ASM | N/A | body | Pool |

Response Status Codes

| HTTP Status Code | Reason |
|------------------|--|
| 201 | Pool created |
| 400 | Invalid input or pool supplied or verify other input data is correct |
| 409 | Pool already exists |

/ServerPool/ GET

Description

Retrieve pools

Method

GET

Response Class

[Pool]

Response Content-Type: application/json, application/xml

Parameters

| Parameter | Value | Description | Default Value | Parameter Type | Data Type |
|-----------|-------|--|---------------|----------------|-----------|
| sort | N/A | Specify sort columns(Supported columns are:name,descri | N/A | query | string |

| Parameter | Value | Description | Default Value | Parameter Type | Data Type |
|-----------|-------|---|---------------|----------------|-----------|
| | | ption,createdBy,createdDate,updatedBy,updatedDate) in a comma separated list of column names to sort. Default order is ascending. Column name can be prefixed with a minus sign to indicate descending for that column. | | | |
| filter | N/A | Specify filter criteria(Supported columns are:name,description,createdBy,updatedBy,updatedDate,createdDate(For dates supports only eq filter also the format of input should be dd-MM-yyyy)), Example co,name,Global | N/A | query | array |
| offset | N/A | Specify pagination offset | 0 | query | integer |
| limit | N/A | Specify page limit, cannot exceed system limit of 50 | 50 | query | integer |

Response Status Codes

| HTTP Status Code | Reason |
|------------------|--|
| 200 | Pools is retrieved |
| 400 | Problem with a query parameter, check response for details |

| HTTP Status Code | Reason |
|------------------|-----------------|
| 404 | Pools not found |

/ServerPool/{poolId} DELETE

Description

Delete an existing pool

Method

DELETE

Response Class

void

Response Content-Type: application/xml, application/json

Parameters

| Parameter | Value | Description | Default Value | Parameter Type | Data Type |
|-----------|------------|----------------------|---------------|----------------|-----------|
| poolId | (required) | Id of pool to delete | N/A | path | string |

Response Status Codes

| HTTP Status Code | Reason |
|------------------|---------------------------|
| 204 | Pool deleted successfully |
| 400 | Invalid pool id supplied |

/ServerPool/{poolId} GET

Description

Find a pool by id

Method

GET

Response Class

Pool

Response Content-Type: application/json, application/xml

Parameters

| Parameter | Value | Description | Default Value | Parameter Type | Data Type |
|-----------|------------|------------------------|---------------|----------------|-----------|
| poolId | (required) | Id of pool to retrieve | N/A | path | string |

Response Status Codes

| HTTP Status Code | Reason |
|------------------|-----------------------------|
| 200 | Pool retrieved successfully |
| 404 | Pool not found |

/ServerPool/{poolId} PUT

Description

Update an existing pool

Method

PUT

Response Class

void

Response Content-Type: application/xml, application/json

Parameters

| Parameter | Value | Description | Default Value | Parameter Type | Data Type |
|-----------|------------|---|---------------|----------------|-----------|
| body | (required) | Pool object that contains update fields | N/A | body | Pool |
| poolId | (required) | Id of pool to update | N/A | path | string |

Response Status Codes

| HTTP Status Code | Reason |
|------------------|---|
| 204 | Pool updated successfully |
| 400 | Invalid input for id or pool supplied or verify other input data is correct |
| 404 | Pool not found |
| 409 | Pool with similar name already exists |

/ServerPool/{poolId}/generateVirtualIdentity PUT

Description

Generate virtual identities in the pool for the given type and count

Method

PUT

Response Class

void

Response Content-Type: application/xml, application/json

Parameters

| Parameter | Value | Description | Default Value | Parameter Type | Data Type |
|-----------|------------|--|---------------|----------------|-----------|
| poolId | (required) | Id of pool to generate virtual identities | N/A | path | string |
| type | (required) | Type of virtual identity pool to generate virtual identities | N/A | query | string |
| count | (required) | Number of virtual identities to generate | N/A | query | integer |

Response Status Codes

| HTTP Status Code | Reason |
|------------------|---|
| 204 | Virtual Identities generated successfully |
| 400 | Invalid input for pool id or type or number of virtual identities to generate or verify other input data is correct |
| 404 | Pool not found |

/ServiceTemplate/ GET

Description

Retrieve all ServiceTemplates with filter, sort, paginate which returns Array of ServiceTemplate.class

Method

GET

Response Class

[ServiceTemplate]

Response Content-Type: application/xml, application/json

Parameters

| Parameter | Value | Description | Default Value | Parameter Type | Data Type |
|-----------|-------|---|---------------|----------------|-----------|
| sort | N/A | Supported sort columns are: name,createdBy,createdDate,updatedBy,updatedDate | N/A | query | string |
| filter | N/A | Filter Criteria | N/A | query | array |
| offset | N/A | Pagination Offset | 0 | query | integer |
| limit | N/A | Page Limit | 50 | query | integer |

Response Status Codes

| HTTP Status Code | Reason |
|------------------|---|
| 200 | All ServiceTemplates Retrived on filter, sort, paginate |

/ServiceTemplate/ POST

Description

Create new ServiceTemplate

Method

POST

Response Class

ServiceTemplate

Response Content-Type: application/xml, application/json

Parameters

| Parameter | Value | Description | Default Value | Parameter Type | Data Type |
|-----------|-------|---------------------------------------|---------------|----------------|-----------------|
| body | N/A | Infrastructure Template to be created | N/A | body | ServiceTemplate |

Response Status Codes

| HTTP Status Code | Reason |
|------------------|---|
| 201 | ServiceTemplate created |
| 400 | Invalid Parameters to create ServiceTemplate or problems with the Resource Adapters |
| 409 | Template already exists |

/ServiceTemplate/{id} GET

Description

Retrieve ServiceTemplate based on ServiceTemplate id

Method

GET

Response Class

ServiceTemplate

Response Content-Type: application/xml, application/json

Parameters

| Parameter | Value | Description | Default Value | Parameter Type | Data Type |
|-----------|------------|-------------------------------------|---------------|----------------|-----------|
| id | (required) | Infrastructure Template Id (String) | N/A | path | string |

Response Status Codes

| HTTP Status Code | Reason |
|------------------|---------------------------|
| 200 | ServiceTemplate retrieved |
| 404 | ServiceTemplate not found |

/ServiceTemplate/{id} DELETE

Description

Delete ServiceTemplate -- this operation is idempotent

Method

DELETE

Response Class

void

Response Content-Type: application/xml, application/json

Parameters

| Parameter | Value | Description | Default Value | Parameter Type | Data Type |
|-----------|------------|-------------------------------------|---------------|----------------|-----------|
| id | (required) | Infrastructure Template Id (String) | N/A | path | string |

Response Status Codes

| HTTP Status Code | Reason |
|------------------|-----------------------------------|
| 204 | ServiceTemplate deleted |
| 500 | Unable to delete ServiceTemplate. |

/ServiceTemplate/{id} PUT

Description

Update Template

Method

PUT

Response Class

ServiceTemplate

Response Content-Type: application/xml, application/json

Parameters

| Parameter | Value | Description | Default Value | Parameter Type | Data Type |
|-----------|------------|--|---------------|----------------|-----------------|
| body | N/A | Infrastructure Template to be updated to | N/A | body | ServiceTemplate |
| id | (required) | Infrastructure Template Id (String) | N/A | path | string |

Response Status Codes

| HTTP Status Code | Reason |
|------------------|--|
| 204 | InfrastructureTemplate updated |
| 400 | Invalid Parameters to Update ServiceTemplate |
| 404 | Template not found |

/ServiceTemplate/{id}/copy POST

Description

Copy a ServiceTemplate

Method

POST

Response Class

ServiceTemplate

Response Content-Type: application/xml, application/json

Parameters

| Parameter | Value | Description | Default Value | Parameter Type | Data Type |
|-----------|------------|-------------------------------------|---------------|----------------|-----------------|
| body | N/A | Infrastructure Template settings | N/A | body | ServiceTemplate |
| id | (required) | Infrastructure Template Id (String) | N/A | path | string |

Response Status Codes

| HTTP Status Code | Reason |
|------------------|---|
| 201 | ServiceTemplate copied successfully |
| 400 | Invalid Parameters to copy ServiceTemplate or problems with the Resource Adapters |
| 409 | Template already exists |

/ServiceTemplate/{id}/mapToPhysicalResources POST

Description

Do Physical Resource allocation based on ServiceTemplate

Method

POST

Response Class

ServiceTemplate

Response Content-Type: application/xml, application/json

Parameters

| Parameter | Value | Description | Default Value | Parameter Type | Data Type |
|-----------|------------|-------------------------------------|---------------|----------------|-----------|
| id | (required) | Infrastructure Template Id (String) | N/A | path | string |

Response Status Codes

| HTTP Status Code | Reason |
|------------------|---|
| 201 | Map Service Template to physical resources |
| 400 | Invalid Parameters to copy ServiceTemplate or problems with the Resource Adapters |
| 409 | Template already exists |

/ServiceTemplate/device/{deviceId} GET

Description

Retrieve Default Template customized for specified device

Method

GET

Response Class

ServiceTemplate

Response Content-Type: application/xml, application/json

Parameters

| Parameter | Value | Description | Default Value | Parameter Type | Data Type |
|-----------|------------|--------------------|---------------|----------------|-----------|
| deviceId | (required) | Device Id (String) | N/A | path | string |

Response Status Codes

| HTTP Status Code | Reason |
|------------------|---------------------------|
| 200 | ServiceTemplate retrieved |
| 404 | ServiceTemplate not found |

/ServiceTemplate/export POST

Description

Export a ServiceTemplate

Method

POST

Response Class

ServiceTemplate

Response Content-Type: application/xml, application/json

Parameters

| Parameter | Value | Description | Default Value | Parameter Type | Data Type |
|---------------------|-------|--------------------------|---------------|----------------|-----------------|
| body | N/A | Service Template | N/A | body | ServiceTemplate |
| encPassword | N/A | Encryption password | N/A | query | string |
| useEncPwdFromBackup | N/A | use password from backup | N/A | query | boolean |

Response Status Codes

| HTTP Status Code | Reason |
|------------------|---|
| 201 | ServiceTemplate exported successfully |
| 400 | Invalid Parameters to copy ServiceTemplate or problems with the Resource Adapters |
| 404 | Template not found |

/ServiceTemplate/upload POST

Description

Upload a ServiceTemplate

Method

POST

Response Class

ServiceTemplate

Response Content-Type: application/xml, application/json

Parameters

| Parameter | Value | Description | Default Value | Parameter Type | Data Type |
|-----------|-------|---------------------------------|---------------|----------------|------------------------------|
| body | N/A | Service Template upload request | N/A | body | ServiceTemplateUploadRequest |

Response Status Codes

| HTTP Status Code | Reason |
|------------------|---------------------------------------|
| 201 | ServiceTemplate uploaded successfully |
| 400 | Invalid Parameters to upload template |

/ServiceTemplate/upload POST

Description

Upload a ServiceTemplate

Method

POST

Response Class

ServiceTemplate

Response Content-Type: application/xml, application/json

Parameters

| Parameter | Value | Description | Default Value | Parameter Type | Data Type |
|-----------|-------|---------------------------------|---------------|----------------|------------------------------|
| body | N/A | Service Template upload request | N/A | body | ServiceTemplateUploadRequest |

Response Status Codes

| HTTP Status Code | Reason |
|------------------|---------------------------------------|
| 201 | ServiceTemplate uploaded successfully |
| 400 | Invalid Parameters to upload template |

/Timezone/ GET

Description

Retrieve ASM appliance timezone

Method

GET

Response Class

timeZone

Response Content-Type: application/json, application/xml

Response Status Codes

| HTTP Status Code | Reason |
|------------------|--|
| 200 | ASM appliance timezone retrieved successfully. |
| 500 | Unable to retrieve ASM appliance Time Zone |

/Timezone/ PUT

Description

Sets the appliance timezone

Method

PUT

Response Class

Response

Response Content-Type: application/json, application/xml

Parameters

| Parameter | Value | Description | Default Value | Parameter Type | Data Type |
|-----------|------------|--|---------------|----------------|-----------|
| body | (required) | TimeZoneInfo that needs to be set on ASM appliance | N/A | body | timeZone |

Response Status Codes

| HTTP Status Code | Reason |
|------------------|---|
| 200 | ASM appliance timezone set successfully. |
| 500 | Unable to set the ASM appliance Time Zone |

/Timezone/all GET

Description

Retrieve list of available timezones

Method

GET

Response Class

availableTimeZones

Response Content-Type: application/json, application/xml

Parameters

| Parameter | Value | Description | Default Value | Parameter Type | Data Type |
|-----------|-------|--|---------------|----------------|-----------|
| offset | N/A | Specify pagination offset | N/A | query | integer |
| limit | N/A | Specify page limit, can not exceed system maximum limit. | N/A | query | integer |

Response Status Codes

| HTTP Status Code | Reason |
|------------------|--|
| 200 | Available timezones list retrieved successfully. |
| 500 | Unable to retrieve list of available timezones |

Appendix B - Model Reference

asmCredential

Name: asmCredential

| Property Name | Property Type | Required |
|---------------|---------------|----------|
| references | references | false |
| credential | credential | true |
| link | Link | false |

AsmDetailedMessage

Name: AsmDetailedMessage

| Property Name | Property Type | Required |
|-----------------|---------------|----------|
| severity | string | false |
| messageBundle | string | false |
| sequenceNumber | integer | false |
| timeStamp | string | false |
| category | string | false |
| correlationId | string | false |
| displayMessage | string | false |
| messageCode | string | false |
| agentId | string | false |
| responseAction | string | false |
| detailedMessage | string | false |

AsmDetailedMessageList

Name: AsmDetailedMessageList

| Property Name | Property Type | Required |
|---------------|--------------------------------------|----------|
| messages | [AsmDetailedMessage] | false |

AuthenticateRequest

Name: AuthenticateRequest

| Property Name | Property Type | Required |
|---------------|---------------|----------|
| userName | string | false |
| domain | string | false |
| password | string | false |

AuthenticateResponse

Name: AuthenticateResponse

| Property Name | Property Type | Required |
|---------------|---------------|----------|
| userName | string | true |
| apiSecret | string | true |
| domain | string | true |
| role | string | true |
| apiKey | string | true |

availableTimeZones

Name: availableTimeZones

| Property Name | Property Type | Required |
|--------------------|----------------------------|----------|
| availableTimeZones | [timeZone] | false |

Chassis

Name: Chassis

| Property Name | Property Type | Required |
|--------------------------------|--------------------------------------|----------|
| defaultPowerCapUpperBoundWatts | integer | false |
| defaultPowerCapUpperBoundBTU | integer | false |
| powerSupplies | [ChassisPowerSupply] | false |
| kVMs | [IKVM] | false |
| model | string | false |
| deviceId | string | false |
| managementIPStatic | boolean | false |
| credentialRefId | string | false |
| assetTag | string | false |
| health | Health | false |
| defaultPowerCapLowerBoundWatts | integer | false |
| defaultPowerCapLowerBoundBTU | integer | false |
| midPlaneVersion | string | false |
| lastFirmwareUpdateTime | GregorianCalendar | false |
| iomCount | integer | false |
| managementIP | string | false |

| Property Name | Property Type | Required |
|-----------------|-------------------------------------|----------|
| iOMs | [IOM] | false |
| controllers | [ChassisController] | false |
| serviceTag | string | false |
| serverCount | integer | false |
| aisle | string | false |
| rack | string | false |
| datacenter | string | false |
| rackslot | string | false |
| dnsName | string | false |
| powerCapPercent | integer | false |
| name | string | false |
| servers | [Server] | false |
| lastUpdateTime | GregorianCalendar | false |
| deviceType | string | false |
| refId | string | false |
| displayName | string | false |
| url | Link | false |
| refType | string | false |

ChassisController

Name: ChassisController

| Property Name | Property Type | Required |
|---------------------|---------------|----------|
| controllerPrimary | boolean | false |
| controllerFWVersion | string | false |
| controllerName | string | false |
| controllerPresent | boolean | false |
| id | string | false |

ChassisLogEntry

Name: ChassisLogEntry

| Property Name | Property Type | Required |
|---------------|-------------------|----------|
| severity | LogSeverity | false |
| logTime | GregorianCalendar | false |
| message | string | false |

ChassisPowerSupply

Name: ChassisPowerSupply

| Property Name | Property Type | Required |
|---------------|---------------|----------|
| present | boolean | false |
| capacity | string | false |
| powerStatus | string | false |
| id | string | false |
| slot | string | false |

ComparatorValue

Enum: ComparatorValue

| Property Name | Property Type | Required |
|---------------|---------------------------------|----------|
| values | ["minimum", "maximum", "exact"] | |

CompliantState

Enum: CompliantState

| Property Name | Property Type | Required |
|---------------|--|----------|
| values | ["NA", "compliant", "noncompliant", "unknown", "updaterequired"] | |

component

Name: component

| Property Name | Property Type | Required |
|-------------------|---|----------|
| componentValid | ServiceTemplateValid | false |
| componentID | string | false |
| refId | string | false |
| cloned | boolean | false |
| clonedFromId | string | false |
| helpText | string | false |
| manageFirmware | boolean | false |
| asmGUID | string | false |
| puppetCertName | string | false |
| relatedComponents | Map,string> | false |
| teardown | boolean | false |
| name | string | false |
| resources | ServiceTemplateCategory | false |
| id | string | false |
| type | ServiceTemplateComponentType | false |
| serialNumber | string | false |
| iP | string | false |

credential

Name: credential

| Property Name | Property Type | Required |
|---------------|---------------|----------|
| domain | string | false |
| label | string | true |
| updatedAt | string | false |
| createdAt | string | false |
| updatedAtBy | string | false |
| id | string | false |
| link | Link | false |
| username | string | true |
| password | string | false |
| createdBy | string | false |

credentialList

Name: credentialList

| Property Name | Property Type | Required |
|----------------|---------------------------------|----------|
| totalRecords | integer | false |
| credentialList | [asmCredential] | false |

Deployment

Name: Deployment

| Property Name | Property Type | Required |
|-----------------------|------------------------------------|----------|
| updatedAt | GregorianCalendar | false |
| createdAt | GregorianCalendar | false |
| updatedBy | string | false |
| jobDetails | [logEntry] | false |
| canMigrate | boolean | false |
| canScaleupStorage | boolean | false |
| canScaleupNetwork | boolean | false |
| canScaleupServer | boolean | false |
| canScaleupVM | boolean | false |
| canDeleteResources | boolean | false |
| canRetry | boolean | false |
| canEdit | boolean | false |
| canDelete | boolean | false |
| canCancel | boolean | false |
| canScaleupApplication | boolean | false |
| canScaleupCluster | boolean | false |
| firmwareRepository | FirmwareRepository | false |
| serviceTemplate | ServiceTemplate | false |
| allUsersAllowed | boolean | false |
| templateValid | boolean | false |
| assignedUsers | [User] | false |
| vms | [VM] | false |
| deploymentDevice | [DeploymentDevice] | false |
| deploymentName | string | false |
| scheduleDate | string | false |
| numberOfDeployments | integer | false |
| deploymentDescription | string | false |
| firmwareRepositoryId | string | false |
| updateServerFirmware | boolean | false |
| teardown | boolean | false |
| individualTeardown | boolean | false |
| retry | boolean | false |
| id | string | false |

| Property Name | Property Type | Required |
|---------------|----------------------|----------|
| owner | string | false |
| status | DeploymentStatusType | false |
| createdBy | string | false |

DeploymentDevice

Name: DeploymentDevice

| Property Name | Property Type | Required |
|-----------------|----------------------|----------|
| statusStartTime | string | false |
| statusEndTime | string | false |
| logDump | string | false |
| statusMessage | string | false |
| componentId | string | false |
| deviceType | DeviceType | false |
| refId | string | false |
| ipAddress | string | false |
| serviceTag | string | false |
| status | DeploymentStatusType | false |
| refType | string | false |

DeploymentFilterResponse

Name: DeploymentFilterResponse

| Property Name | Property Type | Required |
|------------------------|----------------------------------|----------|
| numberRequestedServers | integer | false |
| numberSelectedServers | integer | false |
| failedPoolName | string | false |
| selectedServers | [SelectedServer] | false |
| rejectedServers | [RejectedServer] | false |

| Property Name | Property Type | Required |
|---------------|---------------|----------|
| failedPoolId | string | false |

DeploymentStatusType

Enum: DeploymentStatusType

| Property Name | Property Type | Required |
|---------------|--|----------|
| values | ["Pending", "In progress", "Complete", "Error", "Cancelled"] | |

DeviceDiscoveryRequest

Name: DeviceDiscoveryRequest

| Property Name | Property Type | Required |
|------------------------|---------------|----------|
| config | string | false |
| deviceChassisCredRef | string | false |
| deviceServerCredRef | string | false |
| deviceSwitchCredRef | string | false |
| deviceVCenterCredRef | string | false |
| deviceStorageCredRef | string | false |
| deviceSCVMMCredRef | string | false |
| deviceStartIp | string | false |
| deviceEndIp | string | false |
| deviceBMCServerCredRef | string | false |
| deviceType | DeviceType | false |
| unmanaged | boolean | false |

DeviceDiscoveryRequests

Name: DeviceDiscoveryRequests

| Property Name | Property Type | Required |
|-------------------------------|--|----------|
| discoverIpRangeDeviceRequests | [DeviceDiscoveryRequest] | false |

DeviceGroup

Name: DeviceGroup

| Property Name | Property Type | Required |
|-------------------|-------------------|----------|
| updatedAt | GregorianCalendar | false |
| createdAt | GregorianCalendar | false |
| updatedAt | string | false |
| groupDescription | string | false |
| groupUserList | GroupUserList | false |
| managedDeviceList | ManagedDeviceList | false |
| groupSeqId | integer | false |
| groupName | string | true |
| link | Link | false |
| createdBy | string | false |

DeviceGroupList

Name: DeviceGroupList

| Property Name | Property Type | Required |
|---------------|---------------------------------|----------|
| totalCount | integer | false |
| deviceGroup | [DeviceGroup] | true |

DeviceHealth

Enum: DeviceHealth

| Property Name | Property Type | Required |
|---------------|---------------------------------------|----------|
| values | ["green", "yellow", "red", "unknown"] | |

DeviceState

Enum: DeviceState

| Property Name | Property Type | Required |
|---------------|--|----------|
| values | ["Discovered", "Updating", "Configuration Error", "Pending Configuration Template", "Pending Delete", "Pending", "Ready", "Discovery Failed", "Delete Failed", "Deleted", "Offline", "Deployed", "Deploying", "unmanaged"] | |

DeviceType

Enum: DeviceType

| Property Name | Property Type | Required |
|---------------|---|----------|
| values | ["Chassis", "Server", "TOR", "Chassis M1000e", "Chassis VRTX", "Rack Server", "Blade Server", "Aggregator IOM", "MXL IOM", "Storage", "Compellent", "Equallogic", "Generic Switch", "Dell Switch", "vCenter", "Virtual Machine", "netapp", "scvmm", | |

| Property Name | Property Type | Required |
|---------------|---|----------|
| | "Unknown", "BMC", "Chassis FX2", "FX2 Sled"] | |

dhcpSettings

Name: dhcpSettings

| Property Name | Property Type | Required |
|-------------------|---------------|----------|
| enabled | boolean | false |
| domain | string | false |
| startingIpAddress | string | false |
| endingIpAddress | string | false |
| defaultLeaseTime | integer | false |
| maxLeaseTime | integer | false |
| dns | string | false |
| gateway | string | false |
| subnet | string | false |
| netmask | string | false |

DiscoverDeviceType

Enum: DiscoverDeviceType

| Property Name | Property Type | Required |
|---------------|--|----------|
| values | ["IDRAC6", "CMC", "IDRAC7", "IDRAC8", "UNKNOWN", "SERVER", "IOM", "VRTX", "VCENTER", "EQUALLOGIC", "COMPELLENT", "FORCE10", "BROCADE", "POWERCONNECT", "NETAPP", "CISCONEXUS", "FORCE10IOM", "EQUALLOGIC_NODISCOVER", "DELL_IOM_84", "SCVMM", "BMC", "CMC_FX2", "FX2_IOM"] | |

DiscoveredDevices

Name: DiscoveredDevices

| Property Name | Property Type | Required |
|---------------------------|---|----------|
| config | string | false |
| parentJobId | string | true |
| deviceRefId | string | true |
| firmwareDeviceInventories | [FirmwareDeviceInventory] | false |
| statusMessage | string | false |
| model | string | false |
| serverType | string | false |
| deviceType | DeviceType | false |
| unmanaged | boolean | false |
| refId | string | true |
| healthState | string | false |
| healthStatusMessage | string | false |
| facts | string | false |
| iomCount | integer | false |
| ipAddress | string | true |
| discoverDeviceType | DiscoverDeviceType | false |
| serviceTag | string | true |
| serverCount | integer | false |
| credId | string | true |
| systemId | string | false |
| status | DiscoveryStatus | false |
| configuration | string | false |
| refType | string | true |
| jobId | string | false |
| vendor | string | false |

DiscoveryRequest

Name: DiscoveryRequest

| Property Name | Property Type | Required |
|----------------------|---------------------------------------|----------|
| statusMessage | string | false |
| discoveryRequestList | DeviceDiscoveryRequests | false |
| devices | [DiscoveredDevices] | false |
| totalCount | integer | false |
| id | string | true |
| link | Link | false |
| status | DiscoveryStatus | false |

DiscoveryResult

Name: DiscoveryResult

| Property Name | Property Type | Required |
|---------------------------|---|----------|
| config | string | false |
| parentJobId | string | false |
| deviceId | string | false |
| firmwareDeviceInventories | [FirmwareDeviceInventory] | false |
| statusMessage | string | false |
| model | string | false |
| serverType | string | false |
| deviceType | DeviceType | false |
| refId | string | false |
| healthState | string | false |
| healthStatusMsg | string | false |
| iomCount | integer | false |
| ipAddress | string | false |

| Property Name | Property Type | Required |
|--------------------|--------------------|----------|
| discoverDeviceType | DiscoverDeviceType | false |
| serviceTag | string | false |
| serverCount | integer | false |
| systemId | string | false |
| status | DiscoveryStatus | false |
| refType | string | false |
| jobId | string | false |
| vendor | string | false |

DiscoveryStatus

Enum: DiscoveryStatus

| Property Name | Property Type | Required |
|---------------|---|----------|
| values | ["Pending", "Connected", "Unsupported", "Inprogress", "Success", "Failed to discover", "Error discovering"] | |

DiskMediaType

Enum: DiskMediaType

| Property Name | Property Type | Required |
|---------------|------------------------------------|----------|
| values | ["requiresd", "requirehdd", "any"] | |

Fabric

Name: Fabric

| Property Name | Property Type | Required |
|---------------|-----------------------------|----------|
| enabled | boolean | false |
| usedforfc | boolean | false |
| redundancy | boolean | false |
| nictype | string | false |
| name | string | false |
| interfaces | [Interface] | false |
| id | string | false |

FirmwareComplianceComponents

Name: FirmwareComplianceComponents

| Property Name | Property Type | Required |
|------------------------|-------------------------------------|----------|
| embeddedRepoComponents | [SoftwareComponent] | false |
| defaultRepoComponents | [SoftwareComponent] | false |
| compliantState | CompliantState | false |

FirmwareDeviceInventory

Name: FirmwareDeviceInventory

| Property Name | Property Type | Required |
|------------------------------|------------------------------|----------|
| subvendorID | string | false |
| subdeviceID | string | false |
| componentID | string | false |
| vendorID | string | false |
| deviceID | string | false |
| parent_job_id | string | false |
| ipaddress | string | false |
| firmwareComplianceComponents | FirmwareComplianceComponents | false |
| discoveryResult | DiscoveryResult | false |

| Property Name | Property Type | Required |
|-----------------|---------------|----------|
| servicetag | string | false |
| deviceInventory | ManagedDevice | false |
| fqdd | string | false |
| componentType | string | false |
| name | string | false |
| id | string | false |
| systemId | string | false |
| version | string | false |
| lastUpdateTime | string | false |
| jobId | string | false |

FirmwareInventory

Name: FirmwareInventory

| Property Name | Property Type | Required |
|----------------|---------------|----------|
| subvendorID | string | false |
| bPresent | boolean | false |
| updateable | boolean | false |
| firmwareId | string | false |
| subdeviceId | string | false |
| componentID | string | false |
| vendorID | string | false |
| deviceId | string | false |
| deviceRef | string | false |
| fqdd | string | false |
| componentType | string | false |
| name | string | false |
| version | string | false |
| lastUpdateTime | string | false |

FirmwareRepository

Name: FirmwareRepository

| Property Name | Property Type | Required |
|--------------------|-------------------------------------|----------|
| componentCount | integer | false |
| deployments | [Deployment] | false |
| updatedAt | string | false |
| createdDate | string | false |
| softwareBundles | [SoftwareBundle] | false |
| downloadStatus | RepositoryStatus | false |
| sourceType | string | false |
| updatedBy | string | false |
| md5Hash | string | false |
| sourceLocation | string | false |
| softwareComponents | [SoftwareComponent] | false |
| diskLocation | string | false |
| bundleCount | integer | false |
| defaultCatalog | boolean | false |
| name | string | false |
| id | string | false |
| username | string | false |
| filename | string | false |
| password | string | false |
| embedded | boolean | false |
| createdBy | string | false |

FirmwareUpdateRequest

Name: FirmwareUpdateRequest

| Property Name | Property Type | Required |
|---------------------|---------------|----------|
| scheduleDate | string | false |
| scheduleType | string | false |
| idList | string | false |
| updateType | UpdateType | false |
| exitMaintenanceMode | boolean | false |

GregorianCalendar

Name: GregorianCalendar

| Property Name | Property Type | Required |
|---------------|---------------|----------|
| value | string | true |

GroupUser

Name: GroupUser

| Property Name | Property Type | Required |
|---------------|---------------|----------|
| enabled | boolean | false |
| userName | string | false |
| userSeqId | integer | true |
| firstName | string | false |
| lastName | string | false |
| role | string | true |

GroupUserList

Name: GroupUserList

| Property Name | Property Type | Required |
|---------------|-----------------------------|----------|
| totalRecords | integer | false |
| groupUsers | [GroupUser] | false |

Health

Enum: Health

| Property Name | Property Type | Required |
|---------------|---------------------------------------|----------|
| values | ["GREEN", "YELLOW", "RED", "UNKNOWN"] | |

IKVM

Name: IKVM

| Property Name | Property Type | Required |
|-----------------|---------------|----------|
| present | boolean | false |
| partNumber | string | false |
| manufacturer | string | false |
| firmwareVersion | string | false |
| name | string | false |
| id | string | false |

Interface

Name: Interface

| Property Name | Property Type | Required |
|---------------|---------------|----------|
| enabled | boolean | false |
| partitioned | boolean | false |
| usedforfc | boolean | false |

| Property Name | Property Type | Required |
|---------------|-----------------------------|----------|
| redundancy | boolean | false |
| partitions | [Partition] | false |
| nictype | string | false |
| name | string | false |
| interfaces | [Interface] | false |
| id | string | false |

IOM

Name: IOM

| Property Name | Property Type | Required |
|--------------------|-----------------------------------|----------|
| model | string | false |
| managementIPStatic | boolean | false |
| health | Health | false |
| managementIP | string | false |
| serviceTag | string | false |
| location | [IOMLocationType] | false |
| id | string | false |
| slot | integer | false |
| supported | boolean | false |

IOMLocationType

Enum: IOMLocationType

| Property Name | Property Type | Required |
|---------------|---|----------|
| values | ["A1", "A2", "B1", "B2", "C1", "C2", "UNKNOWN"] | |

IpRange

Name: IpRange

| Property Name | Property Type | Required |
|---------------|---------------|----------|
| endingIp | string | true |
| startingIp | string | true |
| id | string | false |

Link

Name: Link

| Property Name | Property Type | Required |
|---------------|---------------|----------|
| href | string | true |
| title | string | false |
| rel | string | true |
| type | string | false |

List

Name: List

| Property Name | Property Type | Required |
|---------------|---------------|----------|
| empty | boolean | false |

logEntry

Name: logEntry

| Property Name | Property Type | Required |
|---------------|---------------|----------|
| componentId | string | false |
| executionId | string | false |
| message | string | false |
| timestamp | string | false |
| level | string | false |

LogSeverity

Enum: LogSeverity

| Property Name | Property Type | Required |
|---------------|--|----------|
| values | ["Normal", "Warning", "Critical", "Unknown"] | |

ManagedDevice

Name: ManagedDevice

| Property Name | Property Type | Required |
|---------------------------|---|----------|
| config | string | false |
| failuresCount | integer | false |
| firmwareUpdateTime | string | false |
| firmwareDeviceInventories | [FirmwareDeviceInventory] | false |
| statusMessage | DeviceState | false |
| manufacturer | string | false |
| cpuType | string | false |
| healthMessage | string | false |
| infraTemplateDate | GregorianCalendar | false |
| infraTemplateId | string | false |
| serverTemplateDate | GregorianCalendar | false |
| serverTemplateId | string | false |
| inventoryDate | GregorianCalendar | false |

| Property Name | Property Type | Required |
|---------------------|--------------------|----------|
| complianceCheckDate | GregorianCalendar | false |
| discoveredDate | GregorianCalendar | false |
| model | string | false |
| health | DeviceHealth | false |
| deviceType | DeviceType | true |
| refId | string | true |
| detailLink | Link | false |
| operatingSystem | string | false |
| numberOfCPUs | integer | false |
| memoryInGB | integer | false |
| nics | integer | false |
| facts | string | false |
| ipAddress | string | true |
| discoverDeviceType | DiscoverDeviceType | true |
| serviceTag | string | true |
| compliance | CompliantState | false |
| deviceGroupList | DeviceGroupList | false |
| credId | string | false |
| state | DeviceState | false |
| systemId | string | false |
| refType | string | false |

MigrationRequest

Name: MigrationRequest

| Property Name | Property Type | Required |
|---------------|---------------|----------|
| serverList | string | false |
| poolList | string | false |
| autoMigrate | boolean | false |

Network

Name: Network

| Property Name | Property Type | Required |
|----------------------------|----------------------------|----------|
| description | string | false |
| vlanId | integer | false |
| staticNetworkConfiguration | StaticNetworkConfiguration | false |
| name | string | false |
| id | string | false |
| type | string | false |
| static | boolean | false |

NetworkConfiguration

Name: NetworkConfiguration

| Property Name | Property Type | Required |
|-------------------|-----------------------------|----------|
| allUsedInterfaces | [Interface] | false |
| usedInterfaces | [Interface] | false |
| servertype | string | false |
| fabrics | [Fabric] | false |
| interfaces | [Interface] | false |
| id | string | false |

ntpSettings

Name: ntpSettings

| Property Name | Property Type | Required |
|--------------------|---------------|----------|
| preferredNTPServer | string | false |
| secondaryNTPServer | string | false |

Partition

Name: Partition

| Property Name | Property Type | Required |
|-----------------|---------------------------|----------|
| maximum | integer | false |
| minimum | integer | false |
| lanMacAddress | string | false |
| iscsiQN | string | false |
| networks | string | false |
| networkObjects | [Network] | false |
| iscsiMacAddress | string | false |
| wwnn | string | false |
| wwpn | string | false |
| name | string | false |
| id | string | false |

proxySettings

Name: proxySettings

| Property Name | Property Type | Required |
|-----------------------|---------------|----------|
| enabled | boolean | false |
| userName | string | false |
| userCredentialEnabled | boolean | false |
| proxyServer | string | false |
| port | string | false |
| password | string | false |

RAIDConfiguration

Name: RAIDConfiguration

| Property Name | Property Type | Required |
|---------------|-----------------------------|----------|
| hddHotSpares | string | false |
| ssdHotSpares | string | false |
| virtualDisks | VirtualDisk | false |

Reason

Enum: Reason

| Property Name | Property Type | Required |
|---------------|--|----------|
| values | ["RAID", "BAD_STATE", "NIC_CAPS", "SD_NOT_PRESENT", "BAD_RACK_SERVER_MODEL", "BAD_BLADE_SERVER_MODEL", "ALREADY_DEPLOYED", "CLONED_MODEL_MISMATCH", "FIRMWARE_NOT_COMPLIANT", "OTHER"] | |

references

Name: references

| Property Name | Property Type | Required |
|-----------------|---------------|----------|
| policies | integer | false |
| devices | integer | false |
| totalReferences | integer | false |

RejectedServer

Name: RejectedServer

| Property Name | Property Type | Required |
|---------------|---------------|----------|
| reason | Reason | false |
| refId | string | false |

RepositoryStatus

Enum: RepositoryStatus

| Property Name | Property Type | Required |
|---------------|--|----------|
| values | ["pending", "copying", "error", "available"] | |

SelectedServer

Name: SelectedServer

| Property Name | Property Type | Required |
|-------------------|-------------------|----------|
| componentId | string | false |
| refId | string | false |
| serviceTag | string | false |
| raidConfiguration | RAIDConfiguration | false |

Server

Name: Server

| Property Name | Property Type | Required |
|--------------------|----------------|----------|
| slotType | ServerSlotType | false |
| model | string | false |
| managementIPStatic | boolean | false |
| assetTag | string | false |
| health | Health | false |
| managementIP | string | false |
| serviceTag | string | false |
| slotName | string | false |
| id | string | false |
| slot | string | false |
| supported | boolean | false |

ServerSlotType

Enum: ServerSlotType

| Property Name | Property Type | Required |
|---------------|--|----------|
| values | ["HALF", "FULL", "QUARTER", "UNKNOWN"] | |

ServiceTemplate

Name: ServiceTemplate

| Property Name | Property Type | Required |
|---------------------|-----------------------------|----------|
| components | [component] | false |
| updatedAt | GregorianCalendar | false |
| createdAt | GregorianCalendar | false |
| updatedAtBy | string | false |
| firmwareRepository | FirmwareRepository | false |
| templateDescription | string | false |
| wizardPageNumber | integer | false |

| Property Name | Property Type | Required |
|------------------|------------------------|----------|
| draft | boolean | false |
| manageFirmware | boolean | false |
| allUsersAllowed | boolean | false |
| assignedUsers | [User] | false |
| templateName | string | false |
| templateValid | ServiceTemplateValid | false |
| templateVersion | string | false |
| templateLocked | boolean | false |
| enableApps | boolean | false |
| enableCluster | boolean | false |
| enableServer | boolean | false |
| enableStorage | boolean | false |
| enableVMs | boolean | false |
| lastDeployedDate | GregorianCalendar | false |
| id | string | false |
| category | string | false |
| attachments | [string] | false |
| createdBy | string | false |

ServiceTemplateCategory

Name: ServiceTemplateCategory

| Property Name | Property Type | Required |
|---------------|--|----------|
| id | string | false |
| displayName | string | false |
| parameters | [ServiceTemplateSetting] | false |

ServiceTemplateComponentType

Enum: ServiceTemplateComponentType

| Property Name | Property Type | Required |
|---------------|---|----------|
| values | ["CONFIGURATION", "TOR", "STORAGE", "SERVER", "CLUSTER", "VIRTUALMACHINE", "SERVICE", "TEST"] | |

ServiceTemplateOption

Name: ServiceTemplateOption

| Property Name | Property Type | Required |
|------------------|---------------|----------|
| dependencyTarget | string | false |
| dependencyValue | string | false |
| name | string | false |
| value | string | false |

ServiceTemplateSetting

Name: ServiceTemplateSetting

| Property Name | Property Type | Required |
|----------------------|-----------------------------|----------|
| max | integer | false |
| min | integer | false |
| infoIcon | boolean | false |
| networkConfiguration | NetworkConfiguration | false |
| toolTip | string | false |
| networks | [Network] | false |

| Property Name | Property Type | Required |
|---------------------------|---|----------|
| possibleValuesDisplayName | [string] | false |
| possibleValues | [string] | false |
| dependencyTarget | string | false |
| dependencyValue | string | false |
| raidConfiguration | RAIDConfiguration | false |
| hideFromTemplate | boolean | false |
| requiredAtDeployment | boolean | false |
| value | string | false |
| id | string | false |
| type | ServiceTemplateSettingType | false |
| readOnly | boolean | false |
| displayName | string | false |
| group | string | false |
| options | [ServiceTemplateOption] | false |
| generated | boolean | false |
| required | boolean | false |

ServiceTemplateSettingType

Enum: ServiceTemplateSettingType

| Property Name | Property Type | Required |
|---------------|--|----------|
| values | ["BOOLEAN", "STRING", "PASSWORD", "INTEGER", "LIST", "TEXT", "NETWORKCONFIGURATION", "ENUMERATED", "RAIDCONFIGURATION", "BIOSCONFIGURATION"] | |

ServiceTemplateUploadRequest

Name: ServiceTemplateUploadRequest

| Property Name | Property Type | Required |
|---------------------|---------------|----------|
| description | string | false |
| createCategory | boolean | false |
| encryptionPassword | string | false |
| manageFirmware | boolean | false |
| assignedUsers | [string] | false |
| templateName | string | false |
| useEncPwdFromBackup | boolean | false |
| firmwarePackageld | string | false |
| managePermissions | boolean | false |
| allStandardUsers | boolean | false |
| content | string | false |
| category | string | false |

ServiceTemplateValid

Name: ServiceTemplateValid

| Property Name | Property Type | Required |
|---------------|--------------------------------------|----------|
| valid | boolean | false |
| messages | [AsmDetailedMessage] | false |

SoftwareBundle

Name: SoftwareBundle

| Property Name | Property Type | Required |
|--------------------|-------------------------------------|----------|
| description | string | false |
| updatedAt | string | false |
| createdAt | string | false |
| userBundle | boolean | false |
| bundleDate | string | false |
| updatedAtBy | string | false |
| deviceType | string | false |
| userBundlePath | string | false |
| fwRepositoryId | string | false |
| softwareComponents | [SoftwareComponent] | false |
| deviceModel | string | false |
| criticality | string | false |
| name | string | false |
| id | string | false |
| version | string | false |
| link | Link | false |
| createdBy | string | false |

SoftwareComponent

Name: SoftwareComponent

| Property Name | Property Type | Required |
|---------------|---------------|----------|
| updatedAt | string | false |
| createdAt | string | false |
| updatedAtBy | string | false |
| dellVersion | string | false |
| componentId | string | false |
| deviceId | string | false |
| vendorId | string | false |
| vendorVersion | string | false |
| hashMd5 | string | false |

| Property Name | Property Type | Required |
|---------------|---------------|----------|
| packageId | string | false |
| subDeviceId | string | false |
| subVendorId | string | false |
| systemIDs | [string] | false |
| componentType | string | false |
| name | string | false |
| id | string | false |
| path | string | false |
| category | string | false |
| createdBy | string | false |

StaticNetworkConfiguration

Name: StaticNetworkConfiguration

| Property Name | Property Type | Required |
|---------------|-------------------------|----------|
| gateway | string | false |
| subnet | string | false |
| ipRange | IpRange | false |
| dnsSuffix | string | false |
| primaryDns | string | false |
| secondaryDns | string | false |
| ipAddress | string | false |

testProxyResponse

Name: testProxyResponse

| Property Name | Property Type | Required |
|----------------------|---------------|----------|
| testProxyResult | boolean | false |
| testProxyDescription | string | false |

timeZone

Name: timeZone

| Property Name | Property Type | Required |
|---------------|---------------|----------|
| timeZoneId | string | false |
| timeZone | string | false |

UIRaidLevel

Enum: UIRaidLevel

| Property Name | Property Type | Required |
|---------------|--|----------|
| values | ["raid0", "raid1", "raid5", "raid6", "raid10", "raid50", "raid60"] | |

UpdateType

Enum: UpdateType

| Property Name | Property Type | Required |
|---------------|-----------------------|----------|
| values | ["SERVICE", "DEVICE"] | |

User

Name: User

| Property Name | Property Type | Required |
|---------------|---------------|----------|
| enabled | boolean | false |
| userName | string | true |

| Property Name | Property Type | Required |
|----------------|-------------------|----------|
| updatedAt | GregorianCalendar | false |
| createdAt | GregorianCalendar | false |
| updatedAt | string | false |
| userSeqId | integer | false |
| updatePassword | boolean | false |
| domainName | string | true |
| firstName | string | false |
| lastName | string | false |
| email | string | false |
| phoneNumber | string | false |
| systemUser | boolean | false |
| link | Link | false |
| role | string | true |
| password | string | true |
| createdBy | string | false |

VirtualDisk

Name: VirtualDisk

| Property Name | Property Type | Required |
|---------------|--------------------------|----------|
| mediaType | MediaType | false |
| controller | string | false |
| raidLevel | UIRaidLevel | false |
| physicalDisks | [string] | false |
| configuration | VirtualDiskConfiguration | false |

VirtualDiskConfiguration

Name: VirtualDiskConfiguration

| Property Name | Property Type | Required |
|---------------|-----------------|----------|
| numberofdisks | integer | false |
| disktype | DiskMediaType | false |
| raidlevel | UIRaidLevel | false |
| id | string | false |
| comparator | ComparatorValue | false |

VM

Name: VM

| Property Name | Property Type | Required |
|-----------------|---------------|----------|
| vmIpaddress | string | false |
| vmManufacturer | string | false |
| vmModel | string | false |
| vmServiceTag | string | false |
| certificateName | string | false |

wizardStatus

Name: wizardStatus

| Property Name | Property Type | Required |
|-----------------------|---------------|----------|
| isSetupCompleted | boolean | false |
| showGettingStarted | boolean | false |
| isDeploymentCompleted | boolean | false |
| isNetworkCompleted | boolean | false |
| isTemplateCompleted | boolean | false |
| isConfigureCompleted | boolean | false |
| seqId | integer | false |
| link | Link | false |

Appendix C -Ruby Code Usage

Several configuration options are available for the ASM Ruby module. In order to run the code examples, minimally one will need to set the username, password, and baseURI in the file AsmConfig.rb

```
require 'ASM'
require 'XMLPayload'

ASM::API::userName = 'admin'
ASM::API::password = 'abc123'

ASM::API::debug = false

# Globally enable automatic signing of all RestClient requests
#ASM::API::autoEnableAuth

ASM::API::baseURI = 'https://localhost/Api/V1'

# XMLPayload is a simple module to help process XML payloads
ASM::Payload.basePath = './xml_payloads'

# Set this to false if want to ignore problems with self-signed certs.
ASM::API::sslVerify = false

# hack to deal with self-signed certificates
module RestClient
  class Request
    def self.execute(args, & block)
      unless ASM::API::sslVerify
        args[:verify_ssl] = false
      end
      new(args).execute(& block)
    end
  end
end
```

The following Ruby code illustrates several methods for configuring ASM and signing requests.

```
require 'ASM'

ASM::API::userName = 'admin'
ASM::API::password = 'abc123'

ASM::API::baseURI = 'http://localhost/Api/V1'

# Fetch a service template by name
url = ASM::API::URI('/ServiceTemplate')
template_name = 'uploaded'
template_filter = "eq,name,#{template_name}"

# Enable auto signing for all RestClient calls
ASM::API::enableAutoAuth
result = RestClient.get url, {:params=>{:filter=>template_filter}}
```

```

# Disable auto signing for all RestClient calls
ASM::API::disableAutoAuth
result = RestClient.get url, {:params=>{:filter=>template_filter}}

# Sign a single request
ASM::API::sign do
  result = RestClient.get url, {:params=>{:filter=>template_filter}}
  result = RestClient.get url, {:params=>{:filter=>template_filter}}
end

# Logout to demo automatic login below
ASM::API::logout

# Sign a single request with supplied creds
ASM::API::sign('admin','admin') {
  RestClient.get url, {:params=>{:filter=>template_filter}}
}

```