



vCloud Usage Meter 3.5

API Reference

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1. Using the vCloud Usage Meter API

1.1 About vCloud Usage Meter

VMware vCloud Usage Meter is a tool that monitors, measures, and provides reports on virtual machine resource usage gathered from vCenter Server. It provides an easy way for Service Providers and Aggregators to gather and report accurate usage to support the vCloud Air Network (previously known as VSPP) billing process. The vCloud Usage Meter is provided as a virtual appliance.

vCloud Usage Meter serves two functions: metering and reporting. Service Providers use the metering part of the tool to collect raw usage data on vCloud Air Network (vCAN) bundles. Service Providers and/or Aggregators use the reporting part of the tool to generate reports for planning, billing, general account management, dispute resolution, and other purposes.

1.2 Audience

This document assumes that the audience is familiar with the following technologies:

- REST framework and conventions
- XML

Service provider developers are the intended audience of this guide.

1.3 Related Documentation

Document	Location
vCloud Usage Meter User's Guide	VMware Community, via title search
vCloud Usage Meter Release Notes	VMware Community, via title search
vCloud Usage Meter Interoperability Matrix	http://partnerweb.vmware.com/comp_guide2/sim/interop_matrix.php
VMware product documentation	http://www.vmware.com/support/pubs

The vCloud Usage Meter REST API (exposed over HTTPS) is provided for clients such as portals, scripts, and other programs that are external to vCloud Usage Meter.

1.4 Supported Languages

Any programming language that supports the REST framework supports the vCloud Usage Meter API.

Note: If you are using BASH to execute REST API calls, use single quotes (' ') to escape any special characters.

1.5 Tokens

All vCloud Usage Meter APIs require authentication. Authentication tokens can be generated in two ways:

- Click **Manage** in the *vCloud Usage Meter* UI, then click the **API** tab.
- Use the `umtoken` command from the console.

A curl command to invoke API:

```
curl -v -k -H x-usagemeter-authorization:<Auth-Key> https://<UM-IP>:8443/um/api/customers
```

2. vCloud Usage Meter API – Customers

This section summarizes the vCloud Usage Meter API Customer operations.

2.1 Get All Customers

Get an XML representation of all customers.

Operation	GET /um/api/customers
Request Header	Content-Type: application/xml x-usagemeter-authorization: TOKJ1QDQO3QD1VR1MQN03U2BA1WQR2PY04T
Sample Response	<pre><?xml version="1.0" encoding="UTF-8"?> <customers> <customer> <id>1</id> <name>test-Customer-1</name> <country>United States</country> <postalCode>94305</postalCode> </customer> <customer> <id>2</id> <name>test-Customer-2-update</name> <country>United States</country> <postalCode>94304</postalCode> </customer> <customer> <id>6</id> <name>test-Customer-3-update</name> <country>United States</country> <postalCode>95129</postalCode> </customer> <customer> <id>5</id> <name>test-get-custmor-by-id</name> <country>United States</country> <postalCode>94314</postalCode> </customer> </customers></pre> <p>Note: If no customers exist, the response body is an empty list.</p> <pre><?xml version="1.0" encoding="UTF-8"?> <customers></customers></pre>
Success Response	200 OK

Note: Customer ID is auto-assigned by vCloud Usage Meter and it is retained.

2.2 Get Customer by ID

Get an XML representation of a specified customer.

Operation	GET /um/api/customer/{id}
Request Header	Content-Type: application/xml x-usagemeter-authorization: TOKJ1QDQO3QD1VR1MQN03U2BA1WQR2PY04T
Sample Response	<?xml version="1.0" encoding="UTF-8"?> <customer> <id>1</id> <name>test-Customer-1</name> <country>United States</country> <postalCode>94304</postalCode> </customer>
Success Response	200 OK

2.3 Get Customer's Rules

Lists all rules for a specified customer. A customer ID is required for this operation.

Operation	GET /um/api/customer/{id}/rules
Request Header	Content-Type: application/xml x-usagemeter-authorization: TOKJ1QDQO3QD1VR1MQN03U2BA1WQR2PY04T

Sample Response

```

<?xml version="1.0" encoding="UTF-8"?>
<rules>
  <rule
    xmlns="http://www.vmware.com/UM"
    xmlns:tns="http://www.vmware.com/UM"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
    <id>11</id>
    <vcServerId>1</vcServerId>
    <customerId>1</customerId>
    <objectType>VM</objectType>
    <valueType>Unique ID</valueType>
    <value>vm-21</value>
  </rule>
  <rule
    xmlns="http://www.vmware.com/UM"
    xmlns:tns="http://www.vmware.com/UM"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
    <id>12</id>
    <vcServerId>1</vcServerId>
    <customerId>1</customerId>
    <objectType>VM</objectType>
    <valueType>Unique ID</valueType>
    <value>vm-33</value>
  </rule>
  <rule
    xmlns="http://www.vmware.com/UM"
    xmlns:tns="http://www.vmware.com/UM"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
    <id>13</id>
    <vcServerId>1</vcServerId>
    <customerId>1</customerId>
    <objectType>Folder</objectType>
    <valueType>Unique ID</valueType>
    <value>folder1</value>
  </rule>
</rules>

Note: If no rules exist for this customer, the response body is an empty rules list.

<?xml version="1.0" encoding="UTF-8"?>

```

	<code><rules></rules></code>
Success Response	200 OK

2.4 Delete a Customer and Associated Rules

Delete a specified customer and delete rules associated with the customer.

Operation	DELETE /um/api/customer/{id}
Success Response	204 No Content

2.5 Create a Customer

Create a customer from an included XML body.

The country must be a valid 2 letter country code. Country code information is available from the ISO Organization, [ISO 3166-1-alpha-2 code](#).

Operation	POST /um/api/customer
Body	<pre><customer xmlns="http://www.vmware.com/UM"> <name>Customer Name</name> <country>US</country> <postalCode>90210</postalCode> </customer></pre>
Sample Response	<pre><?xml version="1.0" encoding="UTF-8"?> <customer> <id>25</id> <name>Customer Name</name> <country>United States</country> <postalCode>90210</postalCode> </customer></pre>
Success Response	201 Created

2.6 Update a Customer

Update a specified customer.

Operation	PUT /um/api/customer/{id}
Body	<pre><customer xmlns="http://www.vmware.com/UM"> <name>Customer - Added address</name> <country>CA</country> <postalCode>90210</postalCode> </customer></pre>
Success response	200 OK

3. vCloud Usage Meter API – Rules

This section summarizes vCloud Usage Meter API rules operations.

Also see [Delete a Customer and Associated Rules](#).

3.1 Get Rules

Get an XML representation of all rules.

Operation	GET /api/rules
Sample Response	<pre><?xml version="1.0" encoding="UTF-8"?> <rules> <rule> <id>42</id> <vcServerId>12</vcServerId> <customerId>24</customerId> <objectType>Resource Pool</objectType> <valueType>Unique ID</valueType> <value>resgroup-59</value> </rule> <rule> <id>43</id> <vcServerId>12</vcServerId> <customerId>24</customerId> <objectType>Resource Pool</objectType> <valueType>Unique ID</valueType> <value>resgroup-62</value> </rule> <rule> <id>44</id> <vcServerId>12</vcServerId> <customerId>24</customerId> <objectType>Resource Pool</objectType> <valueType>Unique ID</valueType> <value>resgroup-64</value> </rule> <rule> <id>45</id> <vcServerId>12</vcServerId> <customerId>24</customerId> <objectType>Resource Pool</objectType> <valueType>Unique ID</valueType> <value>resgroup-66</value> </rule> </rules></pre>

```

    </rule>
  </rules>

```

Note: If no content exists, the response body is an empty list.

```

<?xml version="1.0" encoding="UTF-8"?>
<rules></rules>

```

Success Response	200 OK
------------------	--------

3.2 Get Rule

Get an XML representation of a specified rule.

Operation	GET /api/rule/{id}
------------------	---------------------------

Sample Response	<pre> <?xml version="1.0" encoding="UTF-8"?> <rule> <id>42</id> <vcServerId>12</vcServerId> <customerId>24</customerId> <objectType>Resource Pool</objectType> <valueType>Unique ID</valueType> <value>resgroup-59</value> </rule> </pre>
-----------------	---

Success Response	200 OK
------------------	--------

3.3 Delete Rule

Delete a specified rule.

Operation	DELETE /api/rule/{id}
------------------	------------------------------

Success Response	204 No Content
------------------	----------------

3.4 Create a Rule

Create a rule from an included XML body.

Customer name and vCenter Server ID are required for this operation. The required field varies depending on `objectType`.

Operation	POST um/api/rule
------------------	-------------------------

Request Header	Content-Type: application/xml x-usagemeter-authorization: <token value>
Body	<p>Example 1</p> <pre><rule xmlns="http://www.vmware.com/UM"> <vcServerId>1</vcServerId> <customerName>CustomerTest</customerName> <objectType>VM</objectType> <valueType>Unique ID</valueType> <value>vm-21</value> </rule></pre> <p>Example 2</p> <pre><rule xmlns="http://www.vmware.com/UM"> <vcServerId>1</vcServerId> <customerName>CustomerTest</customerName> <objectType>vCenter Server</objectType> <valueType>Unique ID</valueType> </rule></pre>
Sample Response	<pre><?xml version="1.0" encoding="UTF-8"?> <rule xmlns="http://www.vmware.com/UM" xmlns:tns="http://www.vmware.com/UM" xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"> <id>22</id> <vcServerId>1</vcServerId> <customerId>17</customerId> <objectType>VM</objectType> <valueType>Unique ID</valueType> <value>vm-21</value> </rule></pre>
Success Response	201 Created

Note: Customer and vCenter Server must pre-exist.

4. vCloud Usage Meter API – Reports

This section summarizes vCloud Usage Meter API Report operations.

4.1 Get Reports

Get an XML description for reports.

Note: Currently vCloud Usage Meter supports the following reports APIs:

- Monthly Usage Units
- Virtual Machines by Product Server
- Virtual Machine History
- vCloud Director Summary
- Product Configuration Issues
- Bundles
- Site Recovery Manager

Operation	GET um/api/reports
Sample Response	<pre><?xml version="1.0" encoding="UTF-8"?> <reports> <report> <link method="get" rel="Monthly Usage Units" href="/api/report/5" /> </report><report> <link method="get" rel="Virtual Machines by Product Server" href="/api/report/19" /> </report><report> <link method="get" rel="Virtual Machine History" href="/api/report/21" /> </report><report> <link method="get" rel="vCloud Director Summary" href="/api/report/23" /> </report><report> <link method="get" rel="Product Configuration Issues" href="/api/report/22" /> </report><report> <link method="get" rel="Bundles" href="/api/report/17" /> </report><report> <link method="get" rel="Site Recovery Manager" href="/api/report/6" /> </report> </reports></pre>

Note: If no content exists, the response body is an empty list.

```
<?xml version="1.0" encoding="UTF-8"?>
<reports></reports>
```

Success Response 200 OK

4.2 Get Report

Get a tsv representation of a specified report. Query is required for all specific reports and must follow the following format:

```
/<id>?dateFrom=yyyymm0100&dateTo=yyyymm0100
```

Example:

```
curl -v -k -H x-usagemeter-authorization:TOK4GWBQU1ZX5D15QXAC5UX003EGLUYTNUS -X GET
'https://10.110.99.224:8443/um/api/report/21?dateFrom=2016100100&dateTo=2016110100'
```

The monthly interval must be exactly one month.

Operation	GET /api/report/21?dateFrom=2016060100&dateTo=2016070100
Sample Response	<pre>#Version: 3.5 #Report Type: Virtual Machines by Product Server #Service Provider: a #Partner ID: 1 #Contract Number: 1 #Site ID: 1 #Contact: a #Email: a@b.com #Phone: a #Start Time: Wed Jun 01 00:00:00 EEST 2016 #End Time: Fri Jul 01 00:00:00 EEST 2016 #Per-VM Memory Cap (GB): 24 #Product Hostname Version License Key # VMs under Management #Message Authentication Code: 41e94ab016b6ace0b4f20f7ef3e666a2ede60436d5fe0632820679b04329ab6c</pre>
Success response	200 OK

5. vCloud Usage Meter API – vCenter Servers

This section summarizes vCloud Usage Meter API vCenter Server operations. All vCenter Server APIs should use the following XML tag:

```
<vcServers>:<vcServer>
```

5.1 Get vCenter Servers

Get an XML description for all vCenter Servers.

This API only returns a list of all active vCenter Servers. The inactive servers are kept hidden in the inventory.

GET /api/vcServer/<id> returns the hidden vCenter Server. <id> is the vCenter Server ID, which remains unchanged.

Operation	GET /api/vcServers
Request Header	<pre>curl -v -k -H Content-Type:application/xml -H x-usagemeter-authorization:TOKTCMCWSHZIVS2GLNR4V0F2TT5KENYCUTIX GET https://11.111.111.11:2222/um/api/vcServers</pre>
Request Body	<pre><vcServers> <vcServer xmlns="http://www.vmware.com/UM"xmlns:tns="http://www.vmware.com/UM"xmlns:xs="http://www.w3.org/2001/XMLSchema"xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"> <id>1</id> <hostname>11.111.11.22</hostname> <port>443</port> <username>administrator@vsphere.local</username> <instanceUuid>47d315b6-c77f-4abc-985b-f9b864d9g724</instanceUuid> <fullname>VMware vCenter Server 6.0.0 build-3339084</fullname> <active>true</active> <version>6.0.0</version> <meter>true</meter> <monitor>true</monitor> </vcServer> </vcServers></pre>

Sample Response

```
<?xml version="1.0" encoding="UTF-8"?>
<vcServers>
  <vcServer>
    <vcServerID>3</vcServerID>
    <host>122.222.22.001</host>
    <fullname>VMware vCenter Server 5.1.0 build-797624</fullname>
    <active>true</active>
    <instanceUuid>86E78D4D-7962-4147-BA90-4B3A59938CA0</instanceUuid>
    <user>root</user>
  </vcServer>
  <vcServer>
    <vcServerID>1</vcServerID>
    <host>11.11.111.111</host>
    <fullname>VMware vCenter Server 5.1.0 build-799731</fullname>
    <active>true</active>
    <instanceUuid>7C1A5AF7-4DB1-4E90-BDFE-A3EEF1B1C79B</instanceUuid>
    <user>root</user>
  </vcServer>
</vcServers>
```

Note: If no content exists, the response body is an empty list.

```
<?xml version="1.0" encoding="UTF-8"?>
<vcServers></vcServers>
```

Success Response 200 OK

5.2 Create a vCenter Server

Create a vCenter Server.

Operation	POST <code>um/api/vcServer</code>
Request Header	Content-Type: application/xml x-usagemeter-authorization: <token value>
Request Body	<pre><vcServer xmlns="http://www.vmware.com/UM"> <hostname>22.333.33.22</hostname> <username>administrator@vsphere.local</username> <password>pwd</password> <monitor>true</monitor> </vcServer></pre>

Sample Response	<pre><?xml version="1.0" encoding="UTF-8"?> <vcId> <vcServer > <vcServerID>4</vcServerID> <host>11.222.33.4</host> <fullname>VMware vCenter Server 5.1.0 build-799731</fullname> <active>true</active> <instanceUuid>D458EA7E-68EC-4B22-94D8- D7543E01711A</instanceUuid> <user>root</user> </vcServer > </vcId></pre>
Success Response	200 OK

Note: The `<monitor>` field value is required to be `<true>` in the request body.

5.3 Get vCenter Server

Get an XML representation of a specified vCenter Server.

Operation	GET /api/vcServer/{id}
Sample Response	<pre><?xml version="1.0" encoding="UTF-8"?> <vcServer> <vcServer> <vcServerID>1</vcServerID> <host>22.44.555.777</host> <fullname>VMware vCenter Server 5.1.0 build-799731</fullname> <active>true</active> <instanceUuid>7C1A5AF7-4DB1-4E90-BDFE- A3EEF1B1C79B</instanceUuid> <user>root</user> </vcServer> </vcServer></pre>
Success Response	200 OK

5.4 Update a vCenter Server

Update details or reactivate a specified vCenter Server. This API is used for two kinds of operations:

- Change username and/or password
- Reactivate deleted vCenter Server

Operation	PUT um/api/vcServer/{id}
Request Header	Content-Type: application/xml x-usagemeter-authorization: <token value>
Body	<vcServer xmlns="http://www.vmware.com/UM"> <hostname>193.77.88.55</hostname> <username>administrator@vsphere.local</username> <password>pwd1</password> <monitor>true</monitor> </vcServer>
Success Response	200 OK

5.5 Delete a vCenter Server

Delete or deactivate a specified vCenter Server. The vCenter Server becomes inactive. After deletion, the vCenter Server <active> attribute is set to "false".

Operation	DELETE /api/vcenter/{id}
Success Response	204 No Content

6. vCloud Usage Meter API – vCloud Director Server

This section summarizes vCloud Usage Meter API vCloud Director Server operations.

6.1 Get All vCloud Director Servers

Get an XML representation for all vCloud Director Servers.

Operation	GET /api/vcd
Sample Response	<pre><?xml version="1.0" encoding="UTF-8"?> <vcdServers> <VCD> <vcdServerId>6</vcdServerId> <active>true</active> <host>11.333.444.777</host> <version>5.1</version> <user>cloudadmin</user> </VCD> <VCD> <vcdServerId>7</vcdServerId> <active>true</active> <host>12.345.67.890</host> <version>1.5</version> <user>admin</user> </VCD> </vcdServers></pre> <p>Note: If no content exists, the response body is an empty list.</p> <pre><?xml version="1.0" encoding="UTF-8"?> <vcdServers></vcdServers></pre>
Success Response	200 OK

6.2 Create a vCloud Director Server

Create a vCloud Director Server.

Operation	POST /api/vcd
Body	<pre><VCD xmlns="http://www.vmware.com/UM"> <hostname>22.444.66.888</hostname> <username>admin</username> <password>pwd</password> </VCD></pre>

Sample Response	<pre><?xml version="1.0" encoding="UTF-8"?> <vcdServer xmlns="http://www.vmware.com/UM" xmlns:tns="http://www.vmware.com/UM" xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"> <id>3</id> <hostname>11.110.22.44</hostname> <port>443</port> <username>admin</username> <active>true</active> <version></version> </vcdServer></pre>
Success Response	201 Created

6.3 Get vCloud Director Server

Get an XML representation of a specified vCloud Director Server.

Operation	GET /api/vcd/{id}
Sample Response	<pre><?xml version="1.0" encoding="UTF-8"?> <vcdServer> <VCD> <vcdServerId>8</vcdServerId> <active>true</active> <host>12.234.56.789</host> <version>1.5</version> <user>admin</user> </VCD> </vcdServer></pre>
Success Response	200 OK

6.4 Update a vCloud Director Server

Update details or activate a specified vCloud Director Server. This API is only for updating username/password and cannot be used for updating the id.

Note: If username/password does not get updated, an “Invalid credentials for vCloud Director Server” error message is displayed.

Operation	PUT /api/vcd/{id}
Request Sample	<pre><VCD xmlns="http://www.vmware.com/UM"> <hostname>22.555.77.55</hostname> <username>admin-update</username> <password>pwd-update</password> </VCD></pre>
Sample Response	<pre><?xml version="1.0" encoding="UTF-8"?> <vcId>8</vcId></pre>
Success Response	204 No Content
Failure Response	403 Forbidden

6.5 Delete a vCloud Director Server

Delete or deactivate a specific vCloud Director Server.

Operation	DELETE /api/vcd/{id}
Success Response	204 No Content

7. vCloud Usage Meter API – Horizon DaaS

This section summarizes vCloud Usage Meter API Horizon DaaS operations.

7.1 Get All Horizon DaaS Servers

Get an XML representation for all Horizon DaaS Servers.

Operation	GET /api/products/horizonDaaS
Sample Response	<pre><horizonDaaS> <DesktonServer xmlns="http://www.vmware.com/UM" xmlns:tns="http://www.vmware.com/UM" xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"> <id>1</id> <hostname>11.22.33.44</hostname> <username>test</username> <sessionModels>1</sessionModels> <active>true</active> </DesktonServer> </horizonDaaS></pre> <p>Note: If no content exists, the response body is an empty list.</p> <pre><?xml version="1.0" encoding="UTF-8"?> < DesktonServers></ DesktonServers></pre>
Success Response	200 OK

7.2 Get Horizon DaaS Server

Get an XML representation of a specified Horizon DaaS Server.

Operation	GET /api/products/horizonDaaS/{id}
------------------	---

Sample Response	<pre><?xml version="1.0" encoding="UTF-8"?> <horizonDaaS> <DesktonServer xmlns="http://www.vmware.com/UM" xmlns:tns="http://www.vmware.com/UM" xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"> <id>1</id> <hostname>12.34.56.78</hostname> <username>test2</username> <sessionModels>1</sessionModels> <active>true</active> </DesktonServer> </horizonDaaS></pre>
Success Response	200 OK

7.3 Post a Horizon DaaS Server

Create a Horizon DaaS Server.

Operation	POST /api/products/horizonDaaS
Body	<pre>'<?xml version="1.0" encoding="UTF-8"?> <DesktonServer xmlns="http://www.vmware.com/UM" xmlns:tns="http://www.vmware.com/UM" xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"> <hostname>22.44.55.66</hostname> <username>test2</username> <password>pwd</password></pre>
Sample Response	<pre><?xml version="1.0" encoding="UTF-8"?> <DesktonServer xmlns="http://www.vmware.com/UM" xmlns:tns="http://www.vmware.com/UM" xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"><id>2</id> <hostname>11.33.11.22</hostname> <username>test2 </username><sessionModels>2</sessionModels> <active>true</active> </DesktonServer></pre>
Success Response	201 Created

7.4 Update a Horizon DaaS Server

Update details or activate a specified Horizon DaaS Server.

Operation	PUT /api/products/horizonDaaS/{id}
Request Sample	'<?xml version="1.0" encoding="UTF-8"?> <DesktopServer xmlns=" http://www.vmware.com/UM " xmlns:tns=" http://www.vmware.com/UM " xmlns:xs=" http://www.w3.org/2001/XMLSchema " xmlns:xsi=" http://www.w3.org/2001/XMLSchema-instance "> <hostname>11.222.33.555/hostname> <username>test</username> <password>pwd</password> <sessionModels>4</sessionModels> </DesktopServer>'
Success Response	204 No Content
Failure Response	403 Forbidden

7.5 Delete a Horizon DaaS Server

Delete or deactivate a specific Horizon DaaS Server.

Operation	DELETE /api/products/horizonDaaS/{id}
Success Response	204 No Content

8. vCloud Usage Meter API – Provider

This section summarizes vCloud Usage Meter API Provider operations.

8.1 Get All Providers

Get an XML representation for all Providers.

Operation	GET /api/providers
Sample Response	<pre> <providers> <provider xmlns="http://www.vmware.com/UM"> <id>1</id> <company>test-update</company> <contact>test</contact> <phone>111111</phone> <email>a@b.com</email> <partnerId>test</partnerId> <contractNum>test</contractNum> <siteId>test</siteId> <portalUserName/> <portalPassword/> </provider> <provider xmlns="http://www.vmware.com/UM"> <id>2</id> <company>test-update</company> <contact>test</contact> <phone>111111</phone> <email>a@b.com</email> <partnerId>test</partnerId> <contractNum>test</contractNum> <siteId>test</siteId> <portalUserName/> <portalPassword/> </provider> </providers> </pre> <p>Note: If no content exists, the response body is an empty list.</p> <pre> <?xml version="1.0" encoding="UTF-8"?> <Providers></Providers> </pre>
Success Response	200 OK

8.2 Get Provider

Get an XML representation of a specified provider.

Operation	GET /api/provider
Sample Response	<pre><provider xmlns="http://www.vmware.com/UM"> <id>1</id> <company>test-update</company> <contact>test</contact> <phone>111111</phone> <email>a@b.com</email> <partnerId>test</partnerId> <contractNum>test</contractNum> <siteId>test</siteId> <portalUserName/> <portalPassword/> </provider></pre>
Success Response	200 OK
Failure Response	404 Not Found The specified provider is not configured.

8.3 Put Provider

Update a specified provider.

Operation	PUT /api/provider
Request Sample	<pre><provider xmlns="http://www.vmware.com/UM"> <company>test-update</company> <contact>test</contact> <phone>111111</phone> <email>a@b.com</email> <partnerId>test</partnerId> <contractNum>test</contractNum> <siteId>test</siteId> <portalUserName/> <portalPassword/> </provider></pre>

Sample Response	<pre> <provider xmlns="http://www.vmware.com/UM"> <id>1</id> <company>test-update</company> <contact>test</contact> <phone>111111</phone> <email>a@b.com</email> <partnerId>test</partnerId> <contractNum>test</contractNum> <siteId>test</siteId> <portalUserName/> <portalPassword/> </provider> </pre>
Success Response	200 OK

8.4 Post Provider

Create a specified provider.

Operation	POST /api/provider
Sample Response	<pre> <provider xmlns="http://www.vmware.com/UM"> <company>test-update</company> <contact>test</contact> <phone>111111</phone> <email>a@b.com</email> <partnerId>test</partnerId> <contractNum>test</contractNum> <siteId>test</siteId> <portalUserName/> <portalPassword/> </provider> </pre>
Success Response	<p>201 CREATED</p> <pre> <provider xmlns="http://www.vmware.com/UM" xmlns:tns="http://www.vmware.com/UM" xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"> <id>1</id> <company>Company Name</company> <contact>FirstName LastName</contact> <phone>111111</phone> <email>a@b.com</email> <partnerId>partner-id</partnerId> <contractNum>contact-num</contractNum> <siteId>site-id</siteId> <portalUserName> </portalUserName> <portalPassword> </portalPassword> </provider> </pre>
Failure Response	400 BAD REQUEST - If the provider already exists.