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## About Port Groups and Ports

This page contains information on how to use the API to:

- List, view, and update port groups
- List and view ports

Note that ports are read-only resources and cannot be created, updated, or deleted via the API. Port groups also cannot be created or deleted via the API, and only two fields (MwiOnCode & MwiOffCode) can be updated by using the PUT method.

## Listing and Viewing

The following is an example of a GET that lists all port groups:

```
GET http://<connection-server>/vmrest/portgroups
```

The following is the response from the above GET request:

```
200
OK
<?xml version="1.0" encoding="UTF-8"?>
<PortGroups total="1">
  <PortGroup>
    <URI>/vmrest/portgroups/035853ce-f4e6-4de2-bda2-84acf827a555</URI>
    <MediaPortGroupTemplateObjectId>90dd306f-b8af-46b6-8289-f13437cc1e5e</MediaPortGroupTemplateOb
    <MediaSwitchObjectId>05186ad4-572c-48d1-aaa6-ac22280c8702</MediaSwitchObjectId>
    <PhoneSystemURI>/vmrest/phonesystems/05186ad4-572c-48d1-aaa6-ac22280c8702</PhoneSystemURI>
    <TelephonyIntegrationMethodEnum>1</TelephonyIntegrationMethodEnum>
    <EnableMWI>true</EnableMWI>
    <DisplayName>PhoneSystem-1</DisplayName>
    <CcmDoAutoFailback>true</CcmDoAutoFailback>
    <MwiOnCode/>
    <MwiOffCode/>
    <MwiRetryCountOnSuccess>0</MwiRetryCountOnSuccess>
```

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```
<MwiRetryIntervalOnSuccessMs>5</MwiRetryIntervalOnSuccessMs>
<ObjectId>035853ce-f4e6-4de2-bda2-84acf827a555</ObjectId>
<SipTransportProtocolEnum>10</SipTransportProtocolEnum>
<SipRegisterWithProxyServer>>false</SipRegisterWithProxyServer>
<SipDoAuthenticate>>false</SipDoAuthenticate>
<SkinnyDevicePrefix>test-VI</SkinnyDevicePrefix>
<MwiMinRequestIntervalMs>0</MwiMinRequestIntervalMs>
<MwiMaxConcurrentRequests>0</MwiMaxConcurrentRequests>
<MediaSwitchDisplayName>PhoneSystem</MediaSwitchDisplayName>
<PortCount>2</PortCount>
<SipDoSRTP>>true</SipDoSRTP>
<SipTLSModeEnum>11</SipTLSModeEnum>
<ResetStatusEnum>0</ResetStatusEnum>
</PortGroup>
</PortGroups>
```

Sorting can be done on columns that are indexed, such as display name. To retrieve a sorted list of all port groups, add the following query parameter: sort=(column [asc|desc])

For example, to retrieve a list of all port groups sorted by display name in descending order:

```
GET http://<connection-server>/vmrest/portgroups?sort=(DisplayName%20desc)
```

To retrieve a specific port group by its object ID:

```
GET http://<connection-server>/vmrest/portgroups/<objectId>
```

Similarly, to retrieve a list of all ports, use:

```
GET http://<connection-server>/vmrest/ports
```

The following is the response from the above GET request:

```
200
OK
<?xml version="1.0" encoding="UTF-8"?>
<Ports total="2">
  <Port>
    <URI>/vmrest/ports/2806ecdc-0a3d-43f3-a2c8-93d786fa506b</URI>
    <ObjectId>2806ecdc-0a3d-43f3-a2c8-93d786fa506b</ObjectId>
    <MediaPortGroupObjectId>035853ce-f4e6-4de2-bda2-84acf827a555</MediaPortGroupObjectId>
    <PortGroupURI>/vmrest/portgroups/035853ce-f4e6-4de2-bda2-84acf827a555</PortGroupURI>
    <TelephonyIntegrationMethodEnum>1</TelephonyIntegrationMethodEnum>
    <PortNumInGroup>1</PortNumInGroup>
    <SkinnySecurityModeEnum>0</SkinnySecurityModeEnum>
    <SkinnyDoMediaEncryption>>false</SkinnyDoMediaEncryption>
    <VmsServerObjectId>a7ba129e-6420-4d44-b060-93b638ba866a</VmsServerObjectId>
    <HuntOrder>0</HuntOrder>
    <DisplayName>PhoneSystem-1-001</DisplayName>
    <SkinnyDeviceName>test-VI1</SkinnyDeviceName>
    <PingPortNumber>1</PingPortNumber>
    <CapAnswer>>true</CapAnswer>
    <CapNotification>>true</CapNotification>
    <CapMWI>>true</CapMWI>
    <CapEnabled>>true</CapEnabled>
    <CapDeliverAmis>>false</CapDeliverAmis>
    <CapTrapConnection>>true</CapTrapConnection>
    <MediaSwitchDisplayName>PhoneSystem</MediaSwitchDisplayName>
    <MediaSwitchObjectId>05186ad4-572c-48d1-aaa6-ac22280c8702</MediaSwitchObjectId>
    <PhoneSystemURI>/vmrest/phonesystems/05186ad4-572c-48d1-aaa6-ac22280c8702</PhoneSystemURI>
    <MediaPortGroupDisplayName>PhoneSystem-1</MediaPortGroupDisplayName>
```

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```
<MediaPortGroupEnableMWI>true</MediaPortGroupEnableMWI>
<MediaPortGroupMwiReqPortSpecific>true</MediaPortGroupMwiReqPortSpecific>
<SipSendPort>0</SipSendPort>
<VmsServerName>cuc-install-55</VmsServerName>
</Port>
<Port>
  <URI>/vmrest/ports/f87ad180-7d06-48c9-b9bd-e6b5cd2311bc</URI>
  <ObjectId>f87ad180-7d06-48c9-b9bd-e6b5cd2311bc</ObjectId>
  <MediaPortGroupObjectId>035853ce-f4e6-4de2-bda2-84acf827a555</MediaPortGroupObjectId>
  <PortGroupURI>/vmrest/portgroups/035853ce-f4e6-4de2-bda2-84acf827a555</PortGroupURI>
  <TelephonyIntegrationMethodEnum>1</TelephonyIntegrationMethodEnum>
  <PortNumInGroup>2</PortNumInGroup>
  <SkinnySecurityModeEnum>0</SkinnySecurityModeEnum>
  <SkinnyDoMediaEncryption>>false</SkinnyDoMediaEncryption>
  <VmsServerObjectId>a7ba129e-6420-4d44-b060-93b638ba866a</VmsServerObjectId>
  <HuntOrder>0</HuntOrder>
  <DisplayName>PhoneSystem-1-002</DisplayName>
  <SkinnyDeviceName>test-VI2</SkinnyDeviceName>
  <PimgPortNumber>2</PimgPortNumber>
  <CapAnswer>true</CapAnswer>
  <CapNotification>true</CapNotification>
  <CapMWI>true</CapMWI>
  <CapEnabled>true</CapEnabled>
  <CapDeliverAmis>>false</CapDeliverAmis>
  <CapTrapConnection>true</CapTrapConnection>
  <MediaSwitchDisplayName>PhoneSystem</MediaSwitchDisplayName>
  <MediaSwitchObjectId>05186ad4-572c-48d1-aaa6-ac22280c8702</MediaSwitchObjectId>
  <PhoneSystemURI>/vmrest/phonesystems/05186ad4-572c-48d1-aaa6-ac22280c8702</PhoneSystemURI>
  <MediaPortGroupDisplayName>PhoneSystem-1</MediaPortGroupDisplayName>
  <MediaPortGroupEnableMWI>true</MediaPortGroupEnableMWI>
  <MediaPortGroupMwiReqPortSpecific>true</MediaPortGroupMwiReqPortSpecific>
  <SipSendPort>0</SipSendPort>
  <VmsServerName>cuc-install-55</VmsServerName>
</Port>
</Ports>
```

Finally, to retrieve a specific port by its object ID, use:

```
GET http://<connection-server>/vmrest/ports/<objectid>
```

## Searching

To retrieve a list of port groups or ports that meet a specified search criteria, add the following query parameter to a GET: query=(column [isstartswith] value)

Note that the search column must either be an indexed column or contain boolean values.

For example, to find all port groups with a display name that starts with "PhoneSystem":

```
GET http://<connection-server>/vmrest/portgroups?query=(displayname%20startswith%20PhoneSystem)
```

The next example finds all port groups with a EnableMwi that is set to 1 (i.e., enabled):

```
GET http://<connection-server>/vmrest/portgroups?query=(EnableMWI%20is%201)
```

## Updating

Ports are read-only resources and cannot be updated. Port groups, however, contain two fields, MwiOnCode and MwiOffCode, that can be updated.

The following is an example of a PUT request that modifies these fields of an existing port group:

```
PUT https://<connection-server>/vmrest/portgroups/<objectid>
```

```
<PortGroup>  
  <MwiOnCode>678</MwiOnCode>  
  <MwiOffCode>876</MwiOffCode>  
</PortGroup>
```

The following is the response from the above PUT request:

```
204  
No Content  
null
```