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About Port Group

Port groups hold most of the integration configuration settings and some or all of the voice messaging ports for Cisco Unity Connection. This page contains information on how to use the API to create, list, modify, and delete Port Groups. Port groups hold most of the integration configuration settings and some or all of the voice messaging ports for Cisco Unity Connection. While most phone system integrations need only one port group, multiple port groups may be needed in the following circumstances:

- For integrations with phone systems through PIMG/TIMG units, each PIMG/TIMG unit is connected to one port group with the applicable voice messaging ports. For example, a system that uses five PIMG units requires five port groups, one port group for each PIMG unit.
- For integrations with other phone systems, an additional port group with its own voice messaging ports may be used for testing a new configuration or for troubleshooting.

In Cisco Unity Connection, you can create three types of port groups:

- SCCP (Skinny)
- SIP
- SIP to DMG
- Connection port groups provide flexibility for integration configuration settings that apply to different sets of ports.
- Administrator can use this API to create/update/fetch/delete the port groups API. It can be used to fetch the list of port groups and also a single instance of port group.

Listing Port Group

The following is an example of the GET request that lists the Port Groups:

```
https://<connection_server>/vmrest/portgrouptemplates
```

The following is an example of the response from the above *GET* request and the actual response will depend upon the information given by you:


```
<PortGroups total="3">
 <PortGroup>
   <URI>/vmrest/portgroups/eee76668-7d26-4e74-ba61-b41630c2819e</URI>
   <MediaPortGroupTemplateObjectId>
   90dd306f-b8af-46b6-8289-f13437cc1e5e
   </MediaPortGroupTemplateObjectId>
   <MediaSwitchObjectId>
   72c5dbe6-9590-40c5-b668-9c599eedf125
   </MediaSwitchObjectId>
   <PhoneSystemURI>
   /vmrest/phonesystems/72c5dbe6-9590-40c5-b668-9c599eedf125
   </PhoneSystemURI>
   <TelephonyIntegrationMethodEnum>1</TelephonyIntegrationMethodEnum>
   <EnableMWI>true</EnableMWI>
   <DisplayName>PhoneSystem-SCCP</DisplayName>
   <EnableAGC>true</EnableAGC>
   <CcmDoAutoFailback>true</CcmDoAutoFailback>
   <MwiRetryCountOnSuccess>1</MwiRetryCountOnSuccess>
   <MwiRetryIntervalOnSuccessMs>2</MwiRetryIntervalOnSuccessMs>
   <ObjectId>eee76668-7d26-4e74-ba61-b41630c2819e</ObjectId>
   <SkinnyDevicePrefix>VVMSetup-VI</SkinnyDevicePrefix>
   <MwiMinRequestIntervalMs>4</MwiMinRequestIntervalMs>
   <OutgoingGuardTimeMs>2500</OutgoingGuardTimeMs>
   <OutgoingPostDialDelayMs>50</OutgoingPostDialDelayMs>
   <OutgoingPreDialDelayMs>0</OutgoingPreDialDelayMs>
   <DelayBeforeOpeningMs>0</DelayBeforeOpeningMs>
   <DtmfDialInterDigitDelayMs>300</DtmfDialInterDigitDelayMs>
   <MwiMaxConcurrentRequests>3</MwiMaxConcurrentRequests>
   <MediaSwitchDisplayName>PhoneSystem123</MediaSwitchDisplayName>
   <PortCount>0</PortCount>
   <SipDoSRTP>true</SipDoSRTP>
   <SipTLSModeEnum>11</SipTLSModeEnum>
   <ResetStatusEnum>0</ResetStatusEnum>
   <RecordingDTMFClipMs>170</RecordingDTMFClipMs>
   <RecordingToneExtraClipMs>250</RecordingToneExtraClipMs>
   <NoiseFreeEnable>true</NoiseFreeEnable>
   <PortGroupServerURI>
   /vmrest/portgroups/eee76668-7d26-4e74-ba61-b41630c2819e/portgroupservers
```

```
    </PortGroupServerURI>
    <PortGroupCodecURI>
    /vmrest/portgroups/eee76668-7d26-4e74-ba61-b41630c2819e/portgroupcodecs
    </PortGroupCodecURI>
    <PortURI>/vmrest/ports/</PortURI>
  </PortGroup>
<PortGroup>
    <URI>/vmrest/portgroups/9339356b-133c-4d89-b6e2-a10243dbdebb</URI>
    <MediaPortGroupTemplateObjectId>
    04e0e286-56ed-4f27-a325-756a49dd98e1
    </MediaPortGroupTemplateObjectId>
    <MediaSwitchObjectId>
    24f1171f-27b3-4ad3-a94c-66d1fb2e448b
    </MediaSwitchObjectId>
    <PhoneSystemURI>
    /vmrest/phonesystems/24f1171f-27b3-4ad3-a94c-66d1fb2e448b
    </PhoneSystemURI>
    <TelephonyIntegrationMethodEnum>2</TelephonyIntegrationMethodEnum>
    <EnableMWI>true</EnableMWI>
    <DisplayName>PhoneSystem-SIP</DisplayName>
    <EnableAGC>true</EnableAGC>
    <CcmDoAutoFailback>true</CcmDoAutoFailback>
    <MwiRetryCountOnSuccess>0</MwiRetryCountOnSuccess>
    <MwiRetryIntervalOnSuccessMs>5</MwiRetryIntervalOnSuccessMs>
    <ObjectId>9339356b-133c-4d89-b6e2-a10243dbdebb</ObjectId>
    <SipContactLineName/>
    <SipTransportProtocolEnum>11</SipTransportProtocolEnum>
    <SipRegisterWithProxyServer>false</SipRegisterWithProxyServer>
    <SipDoAuthenticate>false</SipDoAuthenticate>
    <MwiMinRequestIntervalMs>0</MwiMinRequestIntervalMs>
    <OutgoingGuardTimeMs>0</OutgoingGuardTimeMs>
    <OutgoingPostDialDelayMs>50</OutgoingPostDialDelayMs>
    <OutgoingPreDialDelayMs>0</OutgoingPreDialDelayMs>
    <DelayBeforeOpeningMs>0</DelayBeforeOpeningMs>
    <DtmfDialInterDigitDelayMs>300</DtmfDialInterDigitDelayMs>
    <MwiMaxConcurrentRequests>0</MwiMaxConcurrentRequests>
    <MediaSwitchDisplayName>PhoneSystem</MediaSwitchDisplayName>
    <PortCount>0</PortCount>
    <WaitForCallInfoMs>0</WaitForCallInfoMs>
    <SipDoSRTP>true</SipDoSRTP>
    <SipDoDtmfRfc2833>true</SipDoDtmfRfc2833>
    <SipDoDtmfKPML>true</SipDoDtmfKPML>
    <MediaSipSecurityProfileObjectId>
    4d7e055a-cdcf-43ff-a922-4ce743939a23
    </MediaSipSecurityProfileObjectId>
    <MediaCertificateObjectId>
    c55ef2c3-2475-4505-9566-bcea04a6bb6e
    </MediaCertificateObjectId>
    <SipTLSModeEnum>10</SipTLSModeEnum>
    <ResetStatusEnum>0</ResetStatusEnum>
    <RecordingDTMFClipMs>170</RecordingDTMFClipMs>
    <RecordingToneExtraClipMs>250</RecordingToneExtraClipMs>
    <NoiseFreeEnable>true</NoiseFreeEnable>
    <PortGroupServerURI>
    /vmrest/portgroups/9339356b-133c-4d89-b6e2-a10243dbdebb/portgroupservers
    </PortGroupServerURI>
    <PortGroupCodecURI>
    /vmrest/portgroups/9339356b-133c-4d89-b6e2-a10243dbdebb/portgroupcodecs
    </PortGroupCodecURI>
    <PortURI>/vmrest/ports/</PortURI>
  </PortGroup>
  <PortGroup>
    <URI>/vmrest/portgroups/1404ccd1-45c9-4fb8-9660-5b04cae3373f</URI>
    <MediaPortGroupTemplateObjectId>
```

```
   8fc4952c-aa4f-4b96-a4b3-dbe26e49d899
   </MediaPortGroupTemplateObjectId>
   <MediaSwitchObjectId>
   24f1171f-27b3-4ad3-a94c-66d1fb2e448b
   </MediaSwitchObjectId>
   <PhoneSystemURI>
   /vmrest/phonesystems/24f1171f-27b3-4ad3-a94c-66d1fb2e448b
   </PhoneSystemURI>
   <TelephonyIntegrationMethodEnum>3</TelephonyIntegrationMethodEnum>
   <EnableMWI>true</EnableMWI>
   <DisplayName>PIMG-1</DisplayName>
   <EnableAGC>true</EnableAGC>
   <CcmDoAutoFailback>true</CcmDoAutoFailback>
   <MwiRetryCountOnSuccess>0</MwiRetryCountOnSuccess>
   <MwiRetryIntervalOnSuccessMs>5</MwiRetryIntervalOnSuccessMs>
   <ObjectId>1404ccd1-45c9-4fb8-9660-5b04cae3373f</ObjectId>
   <SipTransportProtocolEnum>10</SipTransportProtocolEnum>
   <MwiMinRequestIntervalMs>0</MwiMinRequestIntervalMs>
   <OutgoingGuardTimeMs>1000</OutgoingGuardTimeMs>
   <OutgoingPostDialDelayMs>50</OutgoingPostDialDelayMs>
   <OutgoingPreDialDelayMs>0</OutgoingPreDialDelayMs>
   <DelayBeforeOpeningMs>0</DelayBeforeOpeningMs>
   <DtmfDialInterDigitDelayMs>300</DtmfDialInterDigitDelayMs>
   <MwiReqPortSpecific>true</MwiReqPortSpecific>
   <MwiMaxConcurrentRequests>0</MwiMaxConcurrentRequests>
   <MediaSwitchDisplayName>PhoneSystem</MediaSwitchDisplayName>
   <PortCount>0</PortCount>
   <WaitForCallInfoMs>0</WaitForCallInfoMs>
   <SipDoSRTP>true</SipDoSRTP>
   <SipDoDtmfRfc2833>true</SipDoDtmfRfc2833>
   <SipDoDtmfKPML>true</SipDoDtmfKPML>
   <MediaSipSecurityProfileObjectId>
   87cab9a5-c68d-447a-ab4f-7cd2837aa240
   </MediaSipSecurityProfileObjectId>
   <SipTLSModeEnum>11</SipTLSModeEnum>
   <ResetStatusEnum>0</ResetStatusEnum>
   <RecordingDTMFClipMs>170</RecordingDTMFClipMs>
   <RecordingToneExtraClipMs>250</RecordingToneExtraClipMs>
   <NoiseFreeEnable>true</NoiseFreeEnable>
   <PortGroupServerURI>
   /vmrest/portgroups/1404ccd1-45c9-4fb8-9660-5b04cae3373f/portgroupservers
   </PortGroupServerURI>
   <PortGroupCodecURI>
   /vmrest/portgroups/1404ccd1-45c9-4fb8-9660-5b04cae3373f/portgroupcodecs
   </PortGroupCodecURI>
   <PortURI>/vmrest/ports/</PortURI>
 </PortGroup>
</PortGroups>

 RESPONSE Code: 200
```


JSON Example

To list all port groups configured, do the following:

```
Request URI:
GET https://<connection-server>/vmrest/portgroups
Accept: application /json
Connection: keep-alive
```

The following is the response from the above *GET* request and the actual response will depend upon the information given by you:

```
{
  "@total": "1",
  "PortGroup":
  {
     "URI": "/vmrest/portgroups/74a008c0-bdc6-4e4b-a304-8a220a081990",
     "MediaPortGroupTemplateObjectId": "04e0e286-56ed-4f27-a325-756a49dd98e1",
     "MediaSwitchObjectId": "f92e948f-6bd4-4891-ab8b-a3d930688305",
     "PhoneSystemURI": "/vmrest/phonesystems/f92e948f-6bd4-4891-ab8b-a3d930688305",
     "TelephonyIntegrationMethodEnum": "2",
     "EnableMWI": "true",
     "DisplayName": "demo_PhoneSystem_1-1",
     "EnableAGC": "true",
     "CcmDoAutoFailback": "true",
     "MwiRetryCountOnSuccess": "0",
     "MwiRetryIntervalOnSuccessMs": "5",
     "ObjectId": "74a008c0-bdc6-4e4b-a304-8a220a081990",
     "SipContactLineName": "",
     "SipTransportProtocolEnum": "11",
     "SipRegisterWithProxyServer": "false",
     "SipDoAuthenticate": "false",
     "MwiMinRequestIntervalMs": "0",
     "OutgoingGuardTimeMs": "0",
     "OutgoingPostDialDelayMs": "50",
     "OutgoingPreDialDelayMs": "0",
     "DelayBeforeOpeningMs": "0",
     "DtmfDialInterDigitDelayMs": "300",
     "MwiMaxConcurrentRequests": "0",
     "MediaSwitchDisplayName": "demo_PhoneSystem_1",
     "PortCount": "2",
     "WaitForCallInfoMs": "0",
     "SipDoSRTP": "true",
     "SipDoDtmfRfc2833": "true",
     "SipDoDtmfKPML": "true",
     "MediaSipSecurityProfileObjectId": "34e62bbf-a2f8-4281-8b1e-90af4985344e",
     "SipTLSModeEnum": "11",
     "ResetStatusEnum": "0",
     "RecordingDTMFClipMs": "170",
     "RecordingToneExtraClipMs": "250",
     "PreferredCallControl": "0",
     "SipPreferredMedia": "0",
     "NoiseFreeEnable": "true",
     "PortGroupServerURI": "/vmrest/portgroups/74a008c0-bdc6-4e4b-a304-
     8a220a081990/portgroupservers",
     "PortGroupCodecURI": "/vmrest/portgroups/74a008c0-bdc6-4e4b-a304-
     8a220a081990/portgroupcodecs",
     "PortURI": "/vmrest/ports/"
  }
}
```


```
Response Code: 200
```

Viewing Details of a Specific Port Group

The following is an example of the GET request that will list details of a particular port group that is represented by an object ID:

```
GET https://<connection-server>/vmrest/portgroups/<PortGroupObjectId>
```

The following is the response from the above *GET* request and the actual response will depend upon the information given by you:

```
<PortGroup>
     <URI>/vmrest/portgroups/ae5656cf-819f-4235-a566-a485ed665eb3</URI>
     <MediaPortGroupTemplateObjectId>04e0e286-56ed-4f27-a325-
  756a49dd98e1</MediaPortGroupTemplateObjectId>
     <MediaSwitchObjectId>5bfd3bae-0c37-4d20-8066-c3065431fc41</MediaSwitchObjectId>
     <PhoneSystemURI>/vmrest/phonesystems/5bfd3bae-0c37-4d20-8066-
  c3065431fc41</PhoneSystemURI>
     <TelephonyIntegrationMethodEnum>2</TelephonyIntegrationMethodEnum>
     <EnableMWI>true</EnableMWI>
<DisplayName>PhoneSystem-2</DisplayName>
<EnableAGC>true</EnableAGC>
<CcmDoAutoFailback>true</CcmDoAutoFailback>
<MwiRetryCountOnSuccess>0</MwiRetryCountOnSuccess>
<MwiRetryIntervalOnSuccessMs>5</MwiRetryIntervalOnSuccessMs>
<ObjectId>ae5656cf-819f-4235-a566-a485ed665eb3</ObjectId>
<SipContactLineName>line</SipContactLineName>
<SipTransportProtocolEnum>11</SipTransportProtocolEnum>
<SipRegisterWithProxyServer>false</SipRegisterWithProxyServer>
<SipDoAuthenticate>true</SipDoAuthenticate>
<SipAuthenticateAsUser>SIPUser</SipAuthenticateAsUser>
<SipAuthenticatePassword>TY1U18Zb0s6xg6UAFpyhnw==</SipAuthenticatePassword>
<MwiMinRequestIntervalMs>0</MwiMinRequestIntervalMs>
<OutgoingGuardTimeMs>0</OutgoingGuardTimeMs>
<OutgoingPostDialDelayMs>50</OutgoingPostDialDelayMs>
<OutgoingPreDialDelayMs>0</OutgoingPreDialDelayMs>
<DelayBeforeOpeningMs>0</DelayBeforeOpeningMs>
<DtmfDialInterDigitDelayMs>300</DtmfDialInterDigitDelayMs>
<MwiMaxConcurrentRequests>0</MwiMaxConcurrentRequests>
<MediaSwitchDisplayName>PhoneSystem</MediaSwitchDisplayName>
<PortCount>0</PortCount>
<WaitForCallInfoMs>0</WaitForCallInfoMs>
<SipDoSRTP>true</SipDoSRTP>
<SipDoDtmfRfc2833>true</SipDoDtmfRfc2833>
<SipDoDtmfKPML>true</SipDoDtmfKPML>
<MediaSipSecurityProfileObjectId>8275234c-6ea4-4a4b-87c1-
74abe1394415</MediaSipSecurityProfileObjectId>
<SipTLSModeEnum>11</SipTLSModeEnum>
<ResetStatusEnum>0</ResetStatusEnum>
<RecordingDTMFClipMs>170</RecordingDTMFClipMs>
<RecordingToneExtraClipMs>250</RecordingToneExtraClipMs>
<NoiseFreeEnable>true</NoiseFreeEnable>
<PortGroupServerURI>/vmrest/portgroups/ae5656cf-819f-4235-a566-
a485ed665eb3/portgroupservers</PortGroupServerURI>
<PortGroupCodecURI>/vmrest/portgroups/ae5656cf-819f-4235-a566-
a485ed665eb3/portgroupcodecs</PortGroupCodecURI>
<PortURI>/vmrest/ports/</PortURI>
</PortGroup>
```


Response Code: 200

JSON Example

To list a particular port group, do the following:

```
GET https://<connection-server>/vmrest/portgroups/<PortGroupObjectId>
Accept: application/json
Connection: keep-alive
```

The following is the response from the above *GET* request and the actual response will depend upo
the information given by you:


```
{
"URI": "/vmrest/portgroups/74a008c0-bdc6-4e4b-a304-8a220a081990",
"MediaPortGroupTemplateObjectId": "04e0e286-56ed-4f27-a325-756a49dd98e1",
"MediaSwitchObjectId": "f92e948f-6bd4-4891-ab8b-a3d930688305",
"PhoneSystemURI": "/vmrest/phonesystems/f92e948f-6bd4-4891-ab8b-a3d930688305",
"TelephonyIntegrationMethodEnum": "2",
"EnableMWI": "true",
"DisplayName": "demo_PhoneSystem_1-1",
"EnableAGC": "true",
```

```
"CcmDoAutoFailback": "true",
"MwiRetryCountOnSuccess": "0",
"MwiRetryIntervalOnSuccessMs": "5",
"ObjectId": "74a008c0-bdc6-4e4b-a304-8a220a081990",
"SipContactLineName": "",
"SipTransportProtocolEnum": "11",
"SipRegisterWithProxyServer": "false",
"SipDoAuthenticate": "false",
"MwiMinRequestIntervalMs": "0",
"OutgoingGuardTimeMs": "0",
"OutgoingPostDialDelayMs": "50",
"OutgoingPreDialDelayMs": "0",
"DelayBeforeOpeningMs": "0",
"DtmfDialInterDigitDelayMs": "300",
"MwiMaxConcurrentRequests": "0",
"MediaSwitchDisplayName": "demo_PhoneSystem_1",
"PortCount": "2",
"WaitForCallInfoMs": "0",
"SipDoSRTP": "true",
"SipDoDtmfRfc2833": "true",
"SipDoDtmfKPML": "true",
"MediaSipSecurityProfileObjectId": "34e62bbf-a2f8-4281-8b1e-90af4985344e",
"SipTLSModeEnum": "11",
"ResetStatusEnum": "0",
"RecordingDTMFClipMs": "170",
"RecordingToneExtraClipMs": "250",
"PreferredCallControl": "0",
"SipPreferredMedia": "0",
"NoiseFreeEnable": "true",
"PortGroupServerURI": "/vmrest/portgroups/74a008c0-bdc6-4e4b-a304-
8a220a081990/portgroupservers",
"PortGroupCodecURI": "/vmrest/portgroups/74a008c0-bdc6-4e4b-a304-
8a220a081990/portgroupcodecs",
"PortURI": "/vmrest/ports/"
}
Response Code: 200
```


```
== Port Group Templates ==
Port group templates list the configuration supported by various types of integrated port groups.


=== Viewing Port Group Templates Information ===

The following is an example of the GET request that lists the port group templates:
<pre>
GET https://< connection-server>/vmrest/portgrouptemplates
```

The following is the response from the above *GET* request and the actual response will depend upon the information given by you:


```
<PortGroupTemplates total="3">
  <PortGroupTemplate>
     <URI>/vmrest/portgrouptemplates/90dd306f-b8af-46b6-8289-f13437cc1e5e</URI>
     <CopyTelephonyIntegrationMethodEnum>1</CopyTelephonyIntegrationMethodEnum>
     <ObjectId>90dd306f-b8af-46b6-8289-f13437cc1e5e</ObjectId>
     <TemplateDescriptionDefault>SCCP</TemplateDescriptionDefault>
  </PortGroupTemplate>
  <PortGroupTemplate>
     <URI>/vmrest/portgrouptemplates/04e0e286-56ed-4f27-a325-756a49dd98e1</URI>
     <CopyTelephonyIntegrationMethodEnum>2</CopyTelephonyIntegrationMethodEnum>
     <ObjectId>04e0e286-56ed-4f27-a325-756a49dd98e1</ObjectId>
     <TemplateDescriptionDefault>SIP</TemplateDescriptionDefault>
  </PortGroupTemplate>
```

```
  <PortGroupTemplate>
     <URI>/vmrest/portgrouptemplates/8fc4952c-aa4f-4b96-a4b3-dbe26e49d899</URI>
     <CopyTelephonyIntegrationMethodEnum>3</CopyTelephonyIntegrationMethodEnum>
     <ObjectId>8fc4952c-aa4f-4b96-a4b3-dbe26e49d899</ObjectId>
     <TemplateDescriptionDefault>SIP to DMG/PIMG/TIMG</TemplateDescriptionDefault>
  </PortGroupTemplate>
</PortGroupTemplates>

Response Code: 200
```

JSON Example

To view the port group templates information, do the following: Request URI: GET https://<connection-server>/vmrest/portgrouptemplates Accept: application /json Connection: keep-alive The following is the response from the above *GET* request and the actual response will depend upon the information given by you: {

```
 "@total": "3",
 "PortGroupTemplate": [
 {
    "URI": "/vmrest/portgrouptemplates/90dd306f-b8af-46b6-8289-f13437cc1e5e",
    "CopyTelephonyIntegrationMethodEnum": "1",
    "ObjectId": "90dd306f-b8af-46b6-8289-f13437cc1e5e",
    "TemplateDescriptionDefault": "SCCP"
 },
 {
    "URI": "/vmrest/portgrouptemplates/04e0e286-56ed-4f27-a325-756a49dd98e1",
    "CopyTelephonyIntegrationMethodEnum": "2",
    "ObjectId": "04e0e286-56ed-4f27-a325-756a49dd98e1",
    "TemplateDescriptionDefault": "SIP"
 },
 {
    "URI": "/vmrest/portgrouptemplates/8fc4952c-aa4f-4b96-a4b3-dbe26e49d899",
    "CopyTelephonyIntegrationMethodEnum": "3",
    "ObjectId": "8fc4952c-aa4f-4b96-a4b3-dbe26e49d899",
    "TemplateDescriptionDefault": "SIP to DMG/PIMG/TIMG"
 }
 ]
```

} </pre>

```
Response Code: 200
```

Listing Port Group Templates

The following is an example of the GET request that lists the Port Groups:

```
 https://<connection_server>/vmrest/portgrouptemplates
```

The following is an example of the response from the above *GET* request and the actual response will depend upon the information given by you:

```
<PortGroupTemplates total="3">
 <PortGroupTemplate>
   <URI>/vmrest/portgrouptemplates/90dd306f-b8af-46b6-8289-f13437cc1e5e</URI>
   <CopyTelephonyIntegrationMethodEnum>1</CopyTelephonyIntegrationMethodEnum>
   <ObjectId>90dd306f-b8af-46b6-8289-f13437cc1e5e</ObjectId>
```

```
    <TemplateDescriptionDefault>SCCP</TemplateDescriptionDefault>
  </PortGroupTemplate>
  <PortGroupTemplate>
    <URI>/vmrest/portgrouptemplates/04e0e286-56ed-4f27-a325-756a49dd98e1</URI>
    <CopyTelephonyIntegrationMethodEnum>2</CopyTelephonyIntegrationMethodEnum>
    <ObjectId>04e0e286-56ed-4f27-a325-756a49dd98e1</ObjectId>
    <TemplateDescriptionDefault>SIP</TemplateDescriptionDefault>
  </PortGroupTemplate>
  <PortGroupTemplate>
    <URI>/vmrest/portgrouptemplates/8fc4952c-aa4f-4b96-a4b3-dbe26e49d899</URI>
    <CopyTelephonyIntegrationMethodEnum>3</CopyTelephonyIntegrationMethodEnum>
    <ObjectId>8fc4952c-aa4f-4b96-a4b3-dbe26e49d899</ObjectId>
    <TemplateDescriptionDefault>SIP to DMG/PIMG/TIMG</TemplateDescriptionDefault>
  </PortGroupTemplate>
</PortGroupTemplates>

 RESPONSE Code: 200
```

Creating New Port Group

This section contains information on how to create port groups:

- Creating SCCP Port Group
- Creating SIP Port Group
- Creating PIMG/TIMG Port Group

Creating SCCP Port Group

For each SCCP port group, you need to enter a value for the following parameters:

- DisplayName: Enter the display name of the port group.
- MediaPortGroupTemplateObjectID: The ID of the port group template used for creating the port group. For more information, refer to the Port Group Template section.
- TelephonyIntegrationMethodEnum: Enter the value ?1? to create SCCP port group.
- HostorIpAddress: Enter the hostname or the IP address of the system on which you want to create port group.

Obtain MediaSwitchObjectId using the following URI:

```
GET https://<connection-server>/vmrest/phonesystems
```

Obtain MediaPortGroupTemplateObjectId using the following URI:

```
GET https://<connection-server>/vmrest/portgrouptemplates
```

The following is an example of the POST request that will create an SCCP port group:

```
  POST https://< connection-server>/vmrest/portgroups
Request Body:
<PortGroup>
     <MediaSwitchObjectId>5bfd3bae-0c37-4d20-8066-c3065431fc41</MediaSwitchObjectId>
     <MediaPortGroupTemplateObjectId>90dd306f-b8af-46b6-8289-
  f13437cc1e5e</MediaPortGroupTemplateObjectId>
     <DisplayName>PhoneSystem-6</DisplayName>
     <TelephonyIntegrationMethodEnum>1</TelephonyIntegrationMethodEnum>
```

```
    <SkinnyDevicePrefix>Test1-VI</SkinnyDevicePrefix>
    <HostOrIPAddress>10.10.10.10</HostOrIPAddress>
</PortGroup>
```

The following is the response from the above *POST* request and the actual response will depend upon the information given by you:

```
Response Code: 201
/vmrest/portgroups/8a009b99-22cf-4305-822d-f5e449a42263
```

JSON Example

To create an SCCP port group, do the following:

```
POST https://<connection-server>/vmrest/portgroups
Accept: application/json
Content-Type: application/json
Connection: keep-alive
Request Body:
{
    "MediaSwitchObjectId":"8a009b99-22cf-4305-822d-f5e449a42263",
    "MediaPortGroupTemplateObjectId":"90dd306f-b8af-46b6-8289-f13437cc1e5e",
    "DisplayName":"PhoneSystem-6",
    "TelephonyIntegrationMethodEnum":"1",
    "SkinnyDevicePrefix":"Test1-VI",
    "HostOrIPAddress","10.10.10.10"
}
```

The following is the response from the above *POST* request and the actual response will depend upon the information given by you:

```
Response Code: 201
/vmrest/portgroups/8a009b99-22cf-4305-822d-f5e449a42263
```

Creating SIP Port Group

For each SIP port group, you need to enter a value for the following parameters:

- DisplayName: Enter the display name of the port group.
- MediaPortGroupTemplateObjectID: The ID of the port group template used for creating the port group. For more information, refer to the Port Group Template section.
- TelephonyIntegrationMethodEnum: Enter the value ?2? to create SIP port group.
- HostorIpAddress: Enter the hostname or the IP address of the system on which you want to create port group.

Obtain MediaSwitchObjectId using the following URI:

```
GET https://<connection-server>/vmrest/phonesystems
```

Obtain MediaPortGroupTemplateObjectId using the following URI:

```
GET https://<connection-server>/vmrest/portgrouptemplates
```

The following is an example of the POST request that will create a SIP port group:

```
POST https://< connection-server>/vmrest/portgroups
```

The following is the response from the above *POST* request and the actual response will depend upon the information given by you:

```
Response Code: 201
/vmrest/portgroups/8a009b99-22cf-4305-822d-f5e449a42263
```

JSON Example

To create an SIP port group:

```
POST https://<connection-server>/vmrest/portgroups
Accept: application/json
Content-Type: application/json
Connection: keep-alive
Request Body:
{
     "MediaSwitchObjectId":"8a009b99-22cf-4305-822d-f5e449a42263",
     "MediaPortGroupTemplateObjectId":"90dd306f-b8af-46b6-8289-f13437cc1e5e",
     "DisplayName":"PhoneSystem-7",
     "TelephonyIntegrationMethodEnum":"2",
     "HostOrIPAddress":"10.10.10.10",
     "ResetStatusEnum":"0",
     "EnableMWI":"true",
     "MwiOnCode":"1",
     "MwiOffCode":"1",
     "MwiRetryCountOnSuccess":"1",
     "MwiRetryIntervalOnSuccessMs":"2",
     "MwiMaxConcurrentRequests":"3",
     "MwiMinRequestIntervalMs":"4"
}
```

The following is the response from the above *POST* request and the actual response will depend upon the information given by you:

```
Response Code: 201
/vmrest/portgroups/8a009b99-22cf-4305-822d-f5e449a42263
```

Creating PIMG/TIMG Port Group

The following is an example of the POST request that will create a PIMG/TIMG port group:

```
  POST https://< connection-server>/vmrest/portgroups/<objectId>
Request Body:
<PortGroup>
     <MediaPortGroupTemplateObjectId>8fc4952c-aa4f-4b96-a4b3-
     dbe26e49d899</MediaPortGroupTemplateObjectId>
     <MediaSwitchObjectId>0d15753c-e1b4-4865-b00b-999a1ccf56ce</MediaSwitchObjectId>
     <TelephonyIntegrationMethodEnum>3</TelephonyIntegrationMethodEnum>
     <DisplayName>PIMG-2</DisplayName>
     <HostOrIPAddress>10.78.171.157</HostOrIPAddress>
</PortGroup>
```

The following is the response from the above *POST* request and the actual response will depend upon the information given by you:

```
Response Code: 201
/vmrest/portgroups/8a009b99-22cf-4305-822d-f5e449a42263
```

JSON Example To create a PIMG/TIMG port group, do the following:

```
POST https://<connection-server>/vmrest/portgroups
Accept: application/json
Content-Type: application/json
Connection: keep-alive
Request Body:
{
     "MediaSwitchObjectId":"8a009b99-22cf-4305-822d-f5e449a42263",
     "MediaPortGroupTemplateObjectId":"90dd306f-b8af-46b6-8289-f13437cc1e5e",
     "DisplayName":"PIMG-2",
     "TelephonyIntegrationMethodEnum":"3",
     "HostOrIPAddress":"10.78.171.157"
}
```

The following is the response from the above *POST* request and the actual response will depend upon the information given by you:

```
Response Code: 201
/vmrest/portgroups/8a009b99-22cf-4305-822d-f5e449a42263
```

Adding New Port Group

This section contains information on how to create port groups:

- Adding SCCP Port Group
- Adding SIP Port Group
- Adding PIMGTIMG Port Group

Adding SCCP Port Group

The following is an example of the POST request that adds the Port Group:

```
 https://<connection_server>/vmrest/portgroups/<objectId>
```

Note: The <objectId> is the id of your phone system.

The actual response will depend upon the information given by you.

For each SCCP port group, you need to enter a value for the following parameters:

- DisplayName: Enter the display name of the port group.
- TelephonyIntegrationMethodEnum: Enter the value ?1? to create SCCP port Group
- HostorIpAddress: Enter the Hostname or the IP Address of the system on which you want to create port group.

Adding SIP Port Groups

The following is an example of the POST request that adds the Port Group:

```
https://<connection_server>/vmrest/portgroups/<objectId>
```

Note: The <objectId> is the id of your phone system.

The actual response will depend upon the information given by you.

```
<PortGroup>
 <MediaSwitchObjectId>
 9821a50b-26e7-409e-b2fe-4b1c3953530d
 </MediaSwitchObjectId>
 <MediaPortGroupTemplateObjectId>
 04e0e286-56ed-4f27-a325-756a49dd98e1
 </MediaPortGroupTemplateObjectId>
 <TelephonyIntegrationMethodEnum>2</TelephonyIntegrationMethodEnum>
 <EnableMWI>true</EnableMWI>
 <DisplayName>PhoneSystem-SIPSANJAY12345678</DisplayName>
 <EnableAGC>true</EnableAGC>
 <CcmDoAutoFailback>true</CcmDoAutoFailback>
 <MwiRetryCountOnSuccess>0</MwiRetryCountOnSuccess>
 <MwiRetryIntervalOnSuccessMs>5</MwiRetryIntervalOnSuccessMs>
 <SipTransportProtocolEnum>11</SipTransportProtocolEnum>
 <SipRegisterWithProxyServer>false</SipRegisterWithProxyServer>
 <SipDoAuthenticate>false</SipDoAuthenticate>
 <MwiMinRequestIntervalMs>0</MwiMinRequestIntervalMs>
 <HostOrIPAddress>10.78.171.158</HostOrIPAddress>
 <SipTLSModeEnum>11</SipTLSModeEnum>
</PortGroup>

 RESPONSE Code: 201
```

For each SIP port group, you need to enter a value for the following parameters:

- DisplayName: Enter the display name of the port group.
- MediaPortGroupTemplateObjectID: The id of the port group template used for creating the port group. For More information, refer to Port Group Template section.
- TelephonyIntegrationMethodEnum: Enter the value ?2? to create SCCP port Group
- HostorIpAddress: Enter the Hostname or the IP Address of the system on which you want to create port group.

Adding PIMGTIMG Port Groups

The following is an example of the POST request that adds the PIMGTIMG Port Group:

```
https://<connection_server>/vmrest/portgroups/<objectId>
```

Note: The <objectId> is the id of your phone system.

The actual response will depend upon the information given by you.

```
<PortGroup>
   <MediaPortGroupTemplateObjectId>8fc4952c-aa4f-4b96-a4b3-dbe26e49d899</MediaPortGroupTemplateObj
   <MediaSwitchObjectId>0d15753c-e1b4-4865-b00b-999a1ccf56ce</MediaSwitchObjectId>
   <TelephonyIntegrationMethodEnum>3</TelephonyIntegrationMethodEnum>
   <EnableMWI>true</EnableMWI>
   <DisplayName>PIMG-2</DisplayName>
   <EnableAGC>true</EnableAGC>
   <CcmDoAutoFailback>true</CcmDoAutoFailback>
   <MwiRetryCountOnSuccess>0</MwiRetryCountOnSuccess>
   <HostOrIPAddress>10.78.171.157</HostOrIPAddress>
```

```
  <MwiRetryIntervalOnSuccessMs>5</MwiRetryIntervalOnSuccessMs>
  <SipTransportProtocolEnum>10</SipTransportProtocolEnum>
  <MwiMinRequestIntervalMs>0</MwiMinRequestIntervalMs>
  <OutgoingGuardTimeMs>1000</OutgoingGuardTimeMs>
  <OutgoingPostDialDelayMs>50</OutgoingPostDialDelayMs>
  <OutgoingPreDialDelayMs>0</OutgoingPreDialDelayMs>
  <DelayBeforeOpeningMs>0</DelayBeforeOpeningMs>
  <DtmfDialInterDigitDelayMs>300</DtmfDialInterDigitDelayMs>
  <MwiReqPortSpecific>true</MwiReqPortSpecific>
  <MwiMaxConcurrentRequests>0</MwiMaxConcurrentRequests>
  <MediaSwitchDisplayName>PhoneSystem</MediaSwitchDisplayName>
  <PortCount>0</PortCount>
  <WaitForCallInfoMs>0</WaitForCallInfoMs>
  <SipDoSRTP>true</SipDoSRTP>
  <SipDoDtmfRfc2833>true</SipDoDtmfRfc2833>
  <SipDoDtmfKPML>true</SipDoDtmfKPML>
  <MediaSipSecurityProfileObjectId>15a3a4d9-65a0-456a-be38-4a4aff36554c</MediaSipSecurityProfileO
  <SipTLSModeEnum>11</SipTLSModeEnum>
  <ResetStatusEnum>0</ResetStatusEnum>
  <RecordingDTMFClipMs>170</RecordingDTMFClipMs>
  <RecordingToneExtraClipMs>250</RecordingToneExtraClipMs>
  <NoiseFreeEnable>true</NoiseFreeEnable>
</PortGroup>

 RESPONSE Code: 201
```

Modifying Port Groups

This section contains information on how to modify Port Groups:

- Modifying SCCP Port Groups
- Modifying SIP Port Groups

Modifying SCCP Port Groups

The following is an example of the PUT request that modifies the SCCP Port Group:

```
 https://<connection_server>/vmrest/portgroups/<sccpobjectId>
```

Note: The <sccpobjectId> is the id of your phone system

The actual response will depend upon the information given by you.

```
  <EnableMWI>true</EnableMWI>
  <MwiOnCode>98</MwiOnCode>
  <MwiOffCode>99</MwiOffCode>
  <MwiRetryCountOnSuccess>1</MwiRetryCountOnSuccess>
  <<MwiMaxConcurrentRequests>3</MwiMaxConcurrentRequests>
  <MwiMinRequestIntervalMs>4</MwiMinRequestIntervalMs>

 RESPONSE Code: 204
```

Modifying SIP Port Group

The following is an example of the PUT request that modifies the SIP Port Group:

```
https://<connection_server>/vmrest/portgroups/<SIPobjectId>
```

Note: The <SIPobjectId>is the id of your phone system

The actual response will depend upon the information given by you.

```
  <EnableMWI>true</EnableMWI>
  <MwiOnCode>98</MwiOnCode>
  <MwiOffCode>99</MwiOffCode>
  <MwiRetryCountOnSuccess>1</MwiRetryCountOnSuccess>
  <<MwiMaxConcurrentRequests>3</MwiMaxConcurrentRequests>
  <MwiMinRequestIntervalMs>4</MwiMinRequestIntervalMs>

RESPONSE Code: 204
```

Modifying Advance Settings of a Port Group

The following is an example of the GET request that list the Advance Settings of a Port Group:

```
https://<connection_server>/vmrest/portgroups/<objectId>
```

The following is an example of the response from the above *GET* request and the actual response will depend upon the information given by you:

```
<PortGroup>
 <URI>/vmrest/portgroups/833a6c54-6bb0-40b9-8aa7-210265701ca2</URI>
 <MediaPortGroupTemplateObjectId>
 04e0e286-56ed-4f27-a325-756a49dd98e1
 </MediaPortGroupTemplateObjectId>
 <MediaSwitchObjectId>
 a65f2cb0-1cdf-4290-a00b-37ab2c3d27e8
 </MediaSwitchObjectId>
 <PhoneSystemURI>
 /vmrest/phonesystems/a65f2cb0-1cdf-4290-a00b-37ab2c3d27e8
 </PhoneSystemURI>
 <TelephonyIntegrationMethodEnum>2</TelephonyIntegrationMethodEnum>
 <EnableMWI>true</EnableMWI>
 <DisplayName>PhoneSystem-SIPSANJAY</DisplayName>
 <EnableAGC>true</EnableAGC>
 <CcmDoAutoFailback>true</CcmDoAutoFailback>
 <MwiRetryCountOnSuccess>0</MwiRetryCountOnSuccess>
 <MwiRetryIntervalOnSuccessMs>5</MwiRetryIntervalOnSuccessMs>
 <ObjectId>833a6c54-6bb0-40b9-8aa7-210265701ca2</ObjectId>
 <SipTransportProtocolEnum>11</SipTransportProtocolEnum>
 <SipRegisterWithProxyServer>false</SipRegisterWithProxyServer>
 <SipDoAuthnticate>false</SipDoAuthenticate>
 <MwiMinRequestIntervalMs>0</MwiMinRequestIntervalMs>
 <OutgoingGuardTimeMs>0</OutgoingGuardTimeMs>
 <OutgoingPostDialDelayMs>50</OutgoingPostDialDelayMs>
 <OutgoingPreDialDelayMs>0</OutgoingPreDialDelayMs>
 <DelayBeforeOpeningMs>0</DelayBeforeOpeningMs>
 <DtmfDialInterDigitDelayMs>300</DtmfDialInterDigitDelayMs>
 <MwiMaxConcurrentRequests>0</MwiMaxConcurrentRequests>
 <MediaSwitchDisplayName>PhoneSystem123</MediaSwitchDisplayName>
 <PortCount>0</PortCount>
 <WaitForCallInfoMs>0</WaitForCallInfoMs>
```

```
 <SipDoSRTP>true</SipDoSRTP>
 <SipDoDtmfRfc2833>true</SipDoDtmfRfc2833>
 <SipDoDtmfKPML>true</SipDoDtmfKPML>
 <MediaSipSecurityProfileObjectId>
 87cab9a5-c68d-447a-ab4f-7cd2837aa240
 </MediaSipSecurityProfileObjectId>
 <SipTLSModeEnum>11</SipTLSModeEnum>
 <ResetStatusEnum>0</ResetStatusEnum>
 <RecordingDTMFClipMs>170</RecordingDTMFClipMs>
 <RecordingToneExtraClipMs>250</RecordingToneExtraClipMs>
 <NoiseFreeEnable>true</NoiseFreeEnable>
 <PortGroupServerURI>
 /vmrest/portgroups/833a6c54-6bb0-40b9-8aa7-210265701ca2/portgroupservers
 </PortGroupServerURI>
 <PortGroupCodecURI>
 /vmrest/portgroups/833a6c54-6bb0-40b9-8aa7-210265701ca2/portgroupcodecs
 </PortGroupCodecURI>
 <PortURI>/vmrest/ports/</PortURI>
</PortGroup>

 RESPONSE Code: 204
```

Modifying Port Group Servers

The following is an example of the GET request that lists all the port group servers:

```
 https://<connection_server>/vmrest/portgroups/<objectId>/portgroupservers
```

The following is an example of the response from the above *GET* request:

```
<PortGroupServer>
 <MediaRemoteServiceEnum>100</MediaRemoteServiceEnum>
 <MediaPortGroupObjectId>eee76668-7d26-4e74-ba61-b41630c2819e</MediaPortGroupObjectId>
 <HostOrIPAddress>10.78.171.158</HostOrIPAddress>
 <Port>2000</Port>
 <TlsPort>2443</TlsPort>
 <Precedence>0</Precedence>
 <SkinnyStateMachineEnum>10</SkinnyStateMachineEnum>
 </PortGroupServer>
<pre>

<pre> RESPONSE Code: 201
```

The following is an example of the PUT request that modifies the Port Group Server:

```
 https:/<server_ip>/vmrest/portgroups/<SIP mediaswitch-objectid>/portgroupservers/<objectId>
```

The actual response will depend upon the information given by you.

```
<PortGroupServer>
<HostOrIPAddress>10.78.171.158</HostOrIPAddress>
<Port>2001</Port>
<TlsPort>2443</TlsPort>
<Precedence>2</Precedence>
</PortGroupServer>

 RESPONSE Code: 204
```

Modifying Codec Advertising of a Port Group

There are 5 types codec that you can add and Delete:

- G.711 mu-law
- G.729
- G.711 a-law
- G.722
- iLBC

Listing Codecs

The following is an example of the GET request that lists all the 5 codecs:

```
https:/<server_ip>/vmrest/rtpcodecdefs
```

The following is an example of the response from the above *GET* request:

```
<RtpCodecDefs total="5">
 <RtpCodecDef>
   <URI>/vmrest/rtpcodecdefs/5623a48c-255d-a121-a4b4-5788238a8123</URI>
   <ObjectId>5623a48c-255d-a121-a4b4-5788238a8123</ObjectId>
   <DisplayName>G.711 mu-law</DisplayName>
 </RtpCodecDef>
 <RtpCodecDef>
   <URI>/vmrest/rtpcodecdefs/672e247c-33de-b232-b5b4-12eb238a8234</URI>
   <ObjectId>672e247c-33de-b232-b5b4-12eb238a8234</ObjectId>
   <DisplayName>G.711 a-law</DisplayName>
 </RtpCodecDef>
 <RtpCodecDef>
   <URI>/vmrest/rtpcodecdefs/7823a48c-105d-b232-07b4-635a20810345</URI>
   <ObjectId>7823a48c-105d-b232-07b4-635a20810345</ObjectId>
   <DisplayName>G.722</DisplayName>
 </RtpCodecDef>
 <RtpCodecDef>
   <URI>/vmrest/rtpcodecdefs/8923aabc-3650-b232-1b00-0788b04a84c6</URI>
   <ObjectId>8923aabc-3650-b232-1b00-0788b04a84c6</ObjectId>
   <DisplayName>G.729</DisplayName>
 </RtpCodecDef>
 <RtpCodecDef>
   <URI>/vmrest/rtpcodecdefs/9a23b48c-060d-b267-2589-5701238ab567</URI>
   <ObjectId>9a23b48c-060d-b267-2589-5701238ab567</ObjectId>
   <DisplayName>iLBC</DisplayName>
 </RtpCodecDef>
</RtpCodecDefs>

 RESPONSE Code: 200
```

Addings Codecs to the existing Port Group

The following is an example of the POST request that add codecs:

```
<PortGroupCodec>
 <MediaPortGroupObjectId>9206847a-cc34-4dab-a08c-9fbed074ba88</MediaPortGroupObjectId>
 <PreferredPacketSizeMs>20</PreferredPacketSizeMs>
 <RtpCodecDefObjectId>9a23b48c-060d-b267-2589-5701238ab567</RtpCodecDefObjectId>
</PortGroupCodec>
```

The value of the PrefferedPacket SizeMS will be 10, 20, and 30.

Deleting a codec

The following is an example of the DELETE request that deletes a codec as represented by <codecid>:

```
 https://<connection_server>/vmrest/portgroups/<objectId>/portgroupcodecs/<objectId>
```

The output for this request returns the successful response code.

```
 RESPONSE Code: 204
```

Updating the Existing Port Group with SIP Integration to Modify SIP Security Profile

SIP port groups can be updated to reconfigure ?SIP Security Profile? and ?SIP Certificate? and SIP security mode using this URL. SIP Profile can be fetched using the following URL:

```
GET https://<connection-server>/vmrest/sipprofiles.
<pre>
SIP certificates can be fetched using the following URI:
<pre>
GET https://<connectionserver>/vmrest/sipcertificates.
```

The following is an example of the PUT request that will update the existing port groups:

```
  PUT https://<connection-server>/vmrest/portgroups/<POrtGroupObjectId>
Request Body:
<PortGroup>
     <MediaSipSecurityProfileObjectId>61dc7bd7-06a4-4e64-8104-
   ea9694390358</MediaSipSecurityProfileObjectId>
     <MediaCertificateObjectId>2654ba6a-ae1a-4935-a8ccc1cf7199f695</
     MediaCertificateObjectId>
     <SipTLSModeEnum>10</SipTLSModeEnum>
</PortGroup>
```

The following is the response from the above *PUT* request and the actual response will depend upon the information given by you:

```
Response Code: 204
```

JSON Example

To update the existing port group with SIP Integration to modify SIP security profile:

```
PUT https://<connection-server>/vmrest/portgroups/<PortGroupObjectId>
Accept: application/json
```

```
Content-Type: application/json
Connection: keep-alive
Request Body:
{
     "MediaSipSecurityProfileObjectId":"61dc7bd7-06a4-4e64-8104-ea9694390358",
     "MediaCertificateObjectId":"2654ba6a-ae1a-4935-a8cc-c1cf7199f695",
     "SipTLSModeEnum":"10"
}
```

The following is the response from the above *PUT* request and the actual response will depend upon the information given by you:

```
Response Code: 204
```

Viewing Reset Status of a Port Group

Following are the possible values of ResetStatusEnum:

- 0: Reset Not Required
- 100: Reset Required
- 101: Reset In progress

Reset status of port group can be checked with the ResetStatusEnum field in response at the following URI:

```
Request URI:
GET https://<connection-server>/vmrest/portgroups/<PortGroupObjectId>
```

The following is the response from the above *GET* request and the actual response will depend upon the information given by you:


```
<PortGroup>
     <URI>/vmrest/portgroups/ae5656cf-819f-4235-a566-a485ed665eb3</URI>
     <MediaPortGroupTemplateObjectId>04e0e286-56ed-4f27-a325-
   756a49dd98e1</MediaPortGroupTemplateObjectId>
     <MediaSwitchObjectId>5bfd3bae-0c37-4d20-8066-c3065431fc41</MediaSwitchObjectId>
     <PhoneSystemURI>/vmrest/phonesystems/5bfd3bae-0c37-4d20-8066-
   c3065431fc41</PhoneSystemURI>
     <TelephonyIntegrationMethodEnum>2</TelephonyIntegrationMethodEnum>
     <EnableMWI>true</EnableMWI>
     <DisplayName>PhoneSystem-2</DisplayName>
     <EnableAGC>true</EnableAGC>
     <CcmDoAutoFailback>true</CcmDoAutoFailback>
     <MwiRetryCountOnSuccess>0</MwiRetryCountOnSuccess>
     <MwiRetryIntervalOnSuccessMs>5</MwiRetryIntervalOnSuccessMs>
     <ObjectId>ae5656cf-819f-4235-a566-a485ed665eb3</ObjectId>
     <SipContactLineName>line</SipContactLineName>
     <SipTransportProtocolEnum>11</SipTransportProtocolEnum>
     <SipRegisterWithProxyServer>false</SipRegisterWithProxyServer>
     <SipDoAuthenticate>true</SipDoAuthenticate>
     <SipAuthenticateAsUser>SIPUser</SipAuthenticateAsUser>
     <SipAuthenticatePassword>TY1U18Zb0s6xg6UAFpyhnw==</SipAuthenticatePassword>
     <MwiMinRequestIntervalMs>0</MwiMinRequestIntervalMs>
     <OutgoingGuardTimeMs>0</OutgoingGuardTimeMs>
     <OutgoingPostDialDelayMs>50</OutgoingPostDialDelayMs>
     <OutgoingPreDialDelayMs>0</OutgoingPreDialDelayMs>
     <DelayBeforeOpeningMs>0</DelayBeforeOpeningMs>
     <DtmfDialInterDigitDelayMs>300</DtmfDialInterDigitDelayMs>
```

```
    <MwiMaxConcurrentRequests>0</MwiMaxConcurrentRequests>
    <MediaSwitchDisplayName>PhoneSystem</MediaSwitchDisplayName>
    <PortCount>0</PortCount>
    <WaitForCallInfoMs>0</WaitForCallInfoMs>
    <SipDoSRTP>true</SipDoSRTP>
    <SipDoDtmfRfc2833>true</SipDoDtmfRfc2833>
    <SipDoDtmfKPML>true</SipDoDtmfKPML>
    <MediaSipSecurityProfileObjectId>8275234c-6ea4-4a4b-87c1-
  74abe1394415</MediaSipSecurityProfileObjectId>
    <SipTLSModeEnum>11</SipTLSModeEnum>
    <ResetStatusEnum>0</ResetStatusEnum>
    <RecordingDTMFClipMs>170</RecordingDTMFClipMs>
    <RecordingToneExtraClipMs>250</RecordingToneExtraClipMs>
    <NoiseFreeEnable>true</NoiseFreeEnable>
    <PortGroupServerURI>/vmrest/portgroups/ae5656cf-819f-4235-a566-
  a485ed665eb3/portgroupservers</PortGroupServerURI>
    <PortGroupCodecURI>/vmrest/portgroups/ae5656cf-819f-4235-a566-
  a485ed665eb3/portgroupcodecs</PortGroupCodecURI>
    <PortURI>/vmrest/ports/</PortURI>
</PortGroup>

Response Code: 200
```

JSON Example

```
Request URI:
GET https://<connection-server>/vmrest/portgroups/<PortGroupObjectId>
Accept: application/json
Connection: keep-alive
```

The following is the response from the above *GET* request and the actual response will depend upon the information given by you:


```
{
    "URI": "/vmrest/portgroups/74a008c0-bdc6-4e4b-a304-8a220a081990",
    "MediaPortGroupTemplateObjectId": "04e0e286-56ed-4f27-a325-756a49dd98e1",
    "MediaSwitchObjectId": "f92e948f-6bd4-4891-ab8b-a3d930688305",
    "PhoneSystemURI": "/vmrest/phonesystems/f92e948f-6bd4-4891-ab8b-a3d930688305",
    "TelephonyIntegrationMethodEnum": "2",
    "EnableMWI": "true",
    "DisplayName": "demo_PhoneSystem_1-1",
    "EnableAGC": "true",
    "CcmDoAutoFailback": "true",
    "MwiRetryCountOnSuccess": "0",
    "MwiRetryIntervalOnSuccessMs": "5",
    "ObjectId": "74a008c0-bdc6-4e4b-a304-8a220a081990",
    "SipContactLineName": "",
    "SipTransportProtocolEnum": "11",
    "SipRegisterWithProxyServer": "false",
    "SipDoAuthenticate": "false",
    "MwiMinRequestIntervalMs": "0",
    "OutgoingGuardTimeMs": "0",
    "OutgoingPostDialDelayMs": "50",
    "OutgoingPreDialDelayMs": "0",
    "DelayBeforeOpeningMs": "0",
    "DtmfDialInterDigitDelayMs": "300",
    "MwiMaxConcurrentRequests": "0",
    "MediaSwitchDisplayName": "demo_PhoneSystem_1",
    "PortCount": "2",
    "WaitForCallInfoMs": "0",
    "SipDoSRTP": "true",
    "SipDoDtmfRfc2833": "true",
```

```
    "SipDoDtmfKPML": "true",
    "MediaSipSecurityProfileObjectId": "34e62bbf-a2f8-4281-8b1e-90af4985344e",
    "SipTLSModeEnum": "11",
    "ResetStatusEnum": "0",
    "RecordingDTMFClipMs": "170",
    "RecordingToneExtraClipMs": "250",
    "PreferredCallControl": "0",
    "SipPreferredMedia": "0",
    "NoiseFreeEnable": "true",
    "PortGroupServerURI": "/vmrest/portgroups/74a008c0-bdc6-4e4b-a304-
    8a220a081990/portgroupservers",
    "PortGroupCodecURI": "/vmrest/portgroups/74a008c0-bdc6-4e4b-a304-
    8a220a081990/portgroupcodecs",
    "PortURI": "/vmrest/ports/"
}

Response Code 200
```

Resetting the Port Group

Administrator will be able to reset a port group when the ResetStatusEnum field value is 100 by sending a PUT request to the URI.

```
PUT https://<connection-server>/vmrest/portgroups/<PortGroupObjectId>/reset
Request Body:
Not required
```

The following is the response from the above *PUT* request and the actual response will depend upon the information given by you:

```
Response Code: 204
```

JSON Example

```
PUT https://<connection-server>/vmrest/portgroups/<PortGroupObjectId>/reset
Accept: application/json
Connection: keep-alive
Request Body:
Not required
```

The following is the response from the above *PUT* request and the actual response will depend upon the information given by you:

```
Response Code: 204
```

Note: If ResetStatusEnum is 0 or 101 and we try to reset port group then error will be thrown.

Explanation of Data Fields

Explanation of Data Fields for SIP Port Group

Parameter	Operations	Data Type	Comments

ObjectId	Read Only	String(36)	Object Id of the port group created.
DisplayName	Read Only	String(64)	Display name of the port group, where maximum characters can be 64.
MediaSwitchObjectId	Read Only	String(36)	Object Id of the phone system for which the port group is created.
MediaPortGroupTemplateObjectId	Read Only	String(36)	Object Id of the port group template being used.
TelephonyIntegrationMethodEnum	Read Only	Enum	The following options are available: • 1 - Skinny Client Control Protocol (SCCP) integration method. • 2 - Session Initiation Protocol (SIP) integration method. • 3 - Intel PBX IP Media Gateway (PIMG) integration method.
ResetStatusEnum	Read Only	Enum	Shows whether the port group needs to be reset in order to cause configuration changes to take effect. The values can be: • 0: Reset Not Required • 100: Reset Required • 101: Reset In progress
EnableMWI	Read/Write	Boolean	A flag indicating whether this port group can transmit message waiting indicator (MWI) on/off messages to the switch. Default value is false.
MwiMaxConcurrentRequests	Read/Write	Integer	The maximum number of MWI requests that can be in progress at any instant. The range can vary from 0 through 250. This field is pertinent only if EnableMWI =TRUE. Default value is 0.
MwiRetryCountOnSuccess	Read/Write	Integer	Specifies the number of times Cisco Unity Connection should repeat activating/deactivating an MWI upon success. The range can vary from 0 through 10. This field is pertinent only if EnableMWI = TRUE. Default value is 0.
MwiRetryIntervalOnSuccessMs	Read/Write	Integer	Specifies the minimum time interval (in milliseconds) between repeated

			transmissions of MWI on/off.The range can vary from 0 through 100. This field is pertinent only if EnableMWI = TRUE. Default value is 5.
MwiMinRequestIntervalMs	Read/Write	Integer	The minimum amount of time (in milliseconds) between sending MWI on/off requests to the switch. The range can vary from 0 through 5000. This field is pertinent only if EnableMWI = TRUE. Default value is 0.
PreferredCallControl	Read/Write	Enum	Used when registering with Call Manager via SCCP and when initiating SIP requests. This field is only applicable when IPv6Enable and address mode is Ipv4_Ipv6. Values can be: • 0: Ipmodev4 • 1: IPmodev6 • 2: IPmodev4_v6 Default value is 0.
SipPreferredMedia	Read/Write	Enum	Indicates SIP media preference when sending an SDP offer. This field is only applicable if IPv6Enable is set to true and Addressing mode is IPv4_IPv6. Values can be: • 0: IPmodev4 • 1:IPmodev6 • 2:IPmodev4_v6 Default value is 0.
SipRegisterWithProxyServer	Read/Write	Boolean	A flag indicating whether Unity Connection should register with a SIP proxy server. Default value is false.
SipDoAuthenticate	Read/Write	Boolean	Specifies if Unity Connection should authenticate with the remote endpoint. Values can be:

			• false: Do not authenticate • true: Must authenticate Default value is false.
SipAuthenticateAsUser	Read/Write	String(64)	The user name used for SIP authentication. Default value is NULL.
SipAuthenticatePassword	Read/Write	String(256)	The password to use during SIP authentication. This field is encrypted. Default value is NULL.
SipContactLineName	Read/Write	String(64)	The extension number of the lines in this group, where the maximum character can be 64. All alphabetical and digit characters are allowed. Among the special characters hyphen, underscore, period, exclamation mark, tilde, asterisk, single quote, opening and closing parenthesis, ampersand, equals, plus, dollar sign, comma, semicolon, question mark, backslash, and percent sign are allowed where maximum character is 64.
MediaSipSecurityProfileObjectId	Read/Write	String(36)	Object Id of the SIP security profile. Applies only to SIP and PIMG port groups.
MediaCertificateObjectId	Read/Write	String(36)	Object Id of the SIP certificate. This field is pertinent only if SIP security profile is 5061/TLS. Applies only to SIP and PIMG port groups.
SIPTransportProtocol	Read/Write	Enum	Specifies Transport protocol used for the SIP integration. The values can be: • UDP = 10 • TCP = 11 Default value is 10.
SipTLSModEnum	Read/Write	Integer	TLS uses cipher NULL-SHA and cipher AES128-SHA. Values can be: • Authenticated = 10 • Encrypted = 11 This field is pertinent only if SIP security profile is 5061/TLS. Default value is 11.

SipDoSRTP	Read/Write	Boolean	A flag indicating whether the audio stream between CUC and the remote endpoint should be encrypted. Values can be: • false: No encryption ? RTP • true: Encrypted ? SRTP This field is pertinent only if SIP security profile is 5061/TLS. Default value is true.
DelayBeforeOpeningMs	Read/Write	Integer	Specifies the delay after answer. The range can vary from 0 through 3000. Default value is 0.
OutgoingGuardTimeMs	Read/Write	Integer	The amount of time (in milliseconds) a port in this group must be on-hook before the Unity Connection will allow an outgoing call on that port. The range can vary from 0 through 10000. Default value is 2500.
OutgoingPreDialDelayMs	Read/Write	Integer	The delay (in milliseconds) before dialing. The range can vary from 0 through 3000. Default value is 0.
OutgoingPostDialDelayMs	Read/Write	Integer	The delay (in milliseconds) after dialing an outgoing call. The range can vary from 0 through 3000. Default value is 50.
DtmfDialInterDigitDelayMs	Read/Write	Integer	Specifies the DTMF Interdigit delay. The range can vary from 0 through 500. Default value is 50.
RecordingDTMFClipMs	Read/Write	Integer	Number of milliseconds to remove from the end of a recording when the recording is terminated with a digit press. The range can vary from 0 through 300. Default value is 170.
RecordingToneExtraClipMs	Read/Write	Integer	Additional number of milliseconds to remove from the end of a recording when the recording is terminated by a tone. The range can vary from 0 through 5000.

			Default value is 250.
SipRPIDDisplayName	Read/Write	String(64)	Name of the Cisco Unity Connection system that Cisco Unity Connection places in the SIP Remote-Party-ID header per draft-ietf-sip-privacy-04. Specifies the Remote-Party-ID for SIP/PIMG only.
SipDoDtmfKPML	Read/Write	Boolean	If value = true, the port group will accept subscriptions from the peer endpoint for KPML events. Use DTMF KPML, for SIP/PIMG only. Default value is true.
SipDoDtmfRfc2833	Read/Write	Boolean	If value = true (1), the port group advertises support for RFC 2833 during call build-up. Use DTMF RFC 2833, for SIP/PIMG only. Default value is true.
EnableAGC	Read/Write	Boolean	Audio Normalization for Recordings and Messages. It also enables audio normalization for recordings and messages. Default value is true.
NoiseFreeEnable	Read/Write	Boolean	Enable noise reduction settings. Default value is true.

Explanation of Data Fields for SCCP Port Group

Parameter	Operations	Data Type	Comments
ObjectId	Read Only	String(36)	Object Id of the port group created.
DisplayName	Read Only	String(64)	Display name of the port group where maximum characters can be 64.
MediaSwitchObjectId	Read Only	String(36)	Object Id of the phone system for which the port group is created.
MediaPortGroupTemplateObjectId	Read Only	String(36)	Object Id of the port group template being used.
TelephonyIntegrationMethodEnum	Read Only	Integer	Values can be: • 1 - Skinny Client Control Protocol (SCCP) integration method. • 2 - Session Initiation Protocol (SIP) integration method.

			• 3 - Intel PBX IP Media Gateway (PIMG) integration method.
SkinnyDevicePrefix	Read Only	String	Used for SCCP Integration. The maximum length can be 48 characters.
ResetStatusEnum	Read Only	Integer	Shows whether the port group needs to be reset in order to cause configuration changes to take effect.

Deleting a Port Group

The following is an example of the DELETE request that deletes a Port Group as represented by <mediaswitch- objectid>:

```
https://<connection_server>/vmrest/portgroups/<mediaswitch - objectId>
```

The output for this request returns the successful response code.

```
Response Code: 204
```

When a port group is deleted, all ports associated to the port group are also deleted.