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## Voice Network Map API

Administrator can use this API to fetch details of all the Unity Connection locations connected in HTTP(S) network. This API helps in creating the topology of HTTP(S) network, where the neighbor location information can be used to retrieve the directly connected Unity Connection location(s) associated with a particular location..

### Listing of Voice Network Map Locations

The following is an example of the GET request that lists the details of location(s) joined in HTTP(S) network.

```
GET: https://<connectionserver>/vmrest/vnmaplocationhttps
```

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

```
<?xml version="1.0" encoding="UTF-8" standalone="yes" ?>
<VnmapLocationHttps total="3">
  <VnmapLocationHttps>
    <URI>/vmrest/vnmaplocationhttps/1dc58282-0f24-4a60-b285-fec9c938e306</URI>
    <ObjectId>1dc58282-0f24-4a60-b285-fec9c938e306</ObjectId>
    <DisplayName> qa-ks-vm-482 </DisplayName>
    <HostAddress>10.78.171.140</HostAddress>
    <DestinationType>1</DestinationType>
    <LocationObjectId>1dc58282-0f24-4a60-b285-fec9c938e306</LocationObjectId>
    <LocationURI>/vmrest/locations/connectionlocations/1dc58282-0f24-4a60-b285-
fec9c938e306</LocationURI>
    <MaxUsn>1488</MaxUsn>
    <LastUsn>1488</LastUsn>
    <ReplicationSetId>02fd1f6e-edcd-4023-9ddb-60b95bc4d3e9</ReplicationSetId>
    <Status>0</Status>
    <VoiceNameSyncStatus>0</VoiceNameSyncStatus>
    <TimeOfLastSync>2013-06-24T12:45:23Z</TimeOfLastSync>
    <NeighbourLocationObjectId>a5265a5e-1bc0-4ff4-82ef-d82a1dc7f231</NeighbourLocationObjectId>
    <NeighbourLocationURI>/vmrest/locations/connectionlocations/a5265a5e-1bc0-4ff4-82ef-
d82a1dc7f231</NeighbourLocationURI>
    <MediatorLocationObjectId>a5265a5e-1bc0-4ff4-82ef-
```

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```
d82a1dc7f231</MediatorLocationObjectId>
  <MediatorLocationURI>/vmrest/locations/connectionlocations/a5265a5e-1bc0-4ff4-82ef-
d82a1dc7f231</MediatorLocationURI>
  <RetryQueueSizeCount>0</RetryQueueSizeCount>
  <IsPrimary>>false</IsPrimary>
  <IsVpimBridgehead>>false</IsVpimBridgehead>
  <DirectorySynchronizationRole>0</DirectorySynchronizationRole>
</VnmapLocationHttps>
<VnmapLocationHttps>
  <URI>/vmrest/vnmaplocationhttpses/a5265a5e-1bc0-4ff4-82ef-d82a1dc7f231</URI>
  <ObjectId>a5265a5e-1bc0-4ff4-82ef-d82a1dc7f231</ObjectId>
  <DisplayName> qa-ks-vm-483</DisplayName>
  <HostAddress>10.78.171.70</HostAddress>
  <DestinationType>1</DestinationType>
  <MaxUsn>0</MaxUsn>
  <LastUsn>0</LastUsn>
  <Status>0</Status>
  <VoiceNameSyncStatus>0</VoiceNameSyncStatus>
  <NeighbourLocationObjectId>a5265a5e-1bc0-4ff4-82ef-d82a1dc7f231</NeighbourLocationObjectId>
  <NeighbourLocationURI>/vmrest/locations/connectionlocations/a5265a5e-1bc0-4ff4-82ef-
d82a1dc7f231</NeighbourLocationURI>
  <MediatorLocationObjectId>a5265a5e-1bc0-4ff4-82ef-
d82a1dc7f231</MediatorLocationObjectId>
  <MediatorLocationURI>/vmrest/locations/connectionlocations/a5265a5e-1bc0-4ff4-82ef-
d82a1dc7f231</MediatorLocationURI>
  <RetryQueueSizeCount>0</RetryQueueSizeCount>
  <IsPrimary>>true</IsPrimary>
  <IsVpimBridgehead>>false</IsVpimBridgehead>
  <DirectorySynchronizationRole>0</DirectorySynchronizationRole>
</VnmapLocationHttps>
<VnmapLocationHttps>
  <URI>/vmrest/vnmaplocationhttpses/5e17e059-38c9-4801-ab9e-39008cd46c4e</URI>
  <ObjectId>5e17e059-38c9-4801-ab9e-39008cd46c4e</ObjectId>
  <DisplayName> qa-ks-vm-493 </DisplayName>
  <HostAddress>10.76.214.63</HostAddress>
  <DestinationType>1</DestinationType>
  <MaxUsn>14421</MaxUsn>
  <LastUsn>14421</LastUsn>
  <ReplicationSetId>34fd1f6e-63cd-4023-9ddb-60b95bc4d3e9</ReplicationSetId>
  <Status>0</Status>
  <VoiceNameSyncStatus>0</VoiceNameSyncStatus>
  <TimeOfLastSync>2013-06-24T12:47:23Z</TimeOfLastSync>
  <NeighbourLocationObjectId>1dc58282-0f24-4a60-b285-
fec9c938e306</NeighbourLocationObjectId>
  <NeighbourLocationURI>/vmrest/locations/connectionlocations/1dc58282-0f24-4a60-b285-
fec9c938e306</NeighbourLocationURI>
  <MediatorLocationObjectId>1dc58282-0f24-4a60-b285-fec9c938e306</MediatorLocationObjectId>
  <MediatorLocationURI>/vmrest/locations/connectionlocations/1dc58282-0f24-4a60-
b285-fec9c938e306</MediatorLocationURI>
  <RetryQueueSizeCount>0</RetryQueueSizeCount>
  <IsPrimary>>false</IsPrimary>
  <IsVpimBridgehead>>false</IsVpimBridgehead>
  <DirectorySynchronizationRole>0</DirectorySynchronizationRole>
</VnmapLocationHttps>
</VnmapLocationHttpses>
```

Response Code: 200

### JSON Example to GET list the details of locations joined in HTTP(S) network:

GET: https://<connectionserver>/vmrest/vnmaplocationhttpses

Accept: application/json

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Content-type: application/json

Connection: keep-alive

The following is the response from the above \*GET\* request:

```
(
{
  "@total": "3",
  "VnmapLocationHttps": [
    {
      "URI": "/vmrest/vnmaplocationhttpses/1dc58282-0f24-4a60-b285-fec9c938e306",
      "ObjectId": "1dc58282-0f24-4a60-b285-fec9c938e306",
      "DisplayName": " qa-ks-vm-482",
      "HostAddress": "10.78.171.140",
      "DestinationType": "1",
      "LocationObjectId": "1dc58282-0f24-4a60-b285-fec9c938e306",
      "LocationURI": "/vmrest/locations/connectionlocations/1dc58282-0f24-4a60-b285-
fec9c938e306",
      "MaxUsn": "1488",
      "LastUsn": "1488",
      "ReplicationSetId": "02fd1f6e-edcd-4023-9ddb-60b95bc4d3e9",
      "Status": "0",
      "VoiceNameSyncStatus": "0",
      "TimeOfLastSync": "2013-06-24T12:46:14Z",
      "NeighbourLocationObjectId": "a5265a5e-1bc0-4ff4-82ef-d82a1dc7f231",
      "NeighbourLocationURI": "/vmrest/locations/connectionlocations/a5265a5e-1bc0-4ff4-
82ef-d82a1dc7f231",
      "MediatorLocationObjectId": "a5265a5e-1bc0-4ff4-82ef-d82a1dc7f231",
      "MediatorLocationURI": "/vmrest/locations/connectionlocations/a5265a5e-1bc0-4ff4-
82ef-d82a1dc7f231",
      "RetryQueueSizeCount": "0",
      "IsPrimary": "false",
      "IsVpimBridgehead": "false",
      "DirectorySynchronizationRole": "0"
    },
    {
      "URI": "/vmrest/vnmaplocationhttpses/a5265a5e-1bc0-4ff4-82ef-d82a1dc7f231",
      "ObjectId": "a5265a5e-1bc0-4ff4-82ef-d82a1dc7f231",
      "DisplayName": " qa-ks-vm-483",
      "HostAddress": "10.78.171.70",
      "DestinationType": "1",
      "MaxUsn": "0",
      "LastUsn": "0",
      "Status": "0",
      "VoiceNameSyncStatus": "0",
      "NeighbourLocationObjectId": "a5265a5e-1bc0-4ff4-82ef-d82a1dc7f231",
      "NeighbourLocationURI": "/vmrest/locations/connectionlocations/a5265a5e-1bc0-4ff4-
82ef-d82a1dc7f231",
      "MediatorLocationObjectId": "a5265a5e-1bc0-4ff4-82ef-d82a1dc7f231",
      "MediatorLocationURI": "/vmrest/locations/connectionlocations/a5265a5e-1bc0-4ff4-
82ef-d82a1dc7f231",
      "RetryQueueSizeCount": "0",
      "IsPrimary": "true",
      "IsVpimBridgehead": "false",
      "DirectorySynchronizationRole": "0"
    },
    {
      "URI": "/vmrest/vnmaplocationhttpses/5e17e059-38c9-4801-ab9e-39008cd46c4e",
      "ObjectId": "5e17e059-38c9-4801-ab9e-39008cd46c4e",
      "DisplayName": " qa-ks-vm-493",
      "HostAddress": "10.76.214.63",
      "DestinationType": "1",
      "MaxUsn": "0",
      "LastUsn": "0",
      "?ReplicationSetId?:?34fd1f6e-63cd-4023-9ddb-60b95bc4d3e9?"
    }
  ],
}
```

## Cisco\_Unity\_Connection\_Provisioning\_Interface\_(CUPI)\_API\_--\_Voice\_Network\_Map

```
"Status": "0",
"VoiceNameSyncStatus": "0",
?TimeOfLastSync?: ?2013-06-24T12:47:23Z?
"NeighbourLocationObjectId": "1dc58282-0f24-4a60-b285-fec9c938e306",
"NeighbourLocationURI": "/vmrest/locations/connectionlocations/1dc58282-0f24-4a60-
b285-fec9c938e306",
"MediatorLocationObjectId": "1dc58282-0f24-4a60-b285-fec9c938e306",
"MediatorLocationURI": "/vmrest/locations/connectionlocations/1dc58282-0f24-4a60-
b285-fec9c938e306",
"RetryQueueSizeCount": "0",
"IsPrimary": "true",
"IsVpimBridgehead": "false",
"DirectorySynchronizationRole": "0"
}
]
}
}
```

Response Code: 200

## Viewing of Voice Network Map Location

The following is an example of the GET request that fetches the details of a particular location joined in HTTP(S) network.

GET: <https://<connectionserver>/vmrest/vnmaplocationhttpses/1dc58282-0f24-4a60-b285-fec9c938e306>

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

```
<?xml version="1.0" encoding="UTF-8" standalone="yes" ?>
<VnmapLocationHttps>
  <URI>/vmrest/vnmaplocationhttpses/1dc58282-0f24-4a60-b285-fec9c938e306</URI>
  <ObjectId>1dc58282-0f24-4a60-b285-fec9c938e306</ObjectId>
  <DisplayName> qa-ks-vm-482 </DisplayName>
  <HostAddress>10.78.171.140</HostAddress>
  <DestinationType>1</DestinationType>
  <LocationObjectId>1dc58282-0f24-4a60-b285-fec9c938e306</LocationObjectId>
  <LocationURI>/vmrest/locations/connectionlocations/1dc58282-0f24-4a60-b285-
fec9c938e306</LocationURI>
  <MaxUsn>1488</MaxUsn>
  <LastUsn>1488</LastUsn>
  <ReplicationSetId>02fd1f6e-edcd-4023-9ddb-60b95bc4d3e9</ReplicationSetId>
  <Status>0</Status>
  <VoiceNameSyncStatus>0</VoiceNameSyncStatus>
  <TimeOfLastSync>2013-06-24T12:45:23Z</TimeOfLastSync>
  <NeighbourLocationObjectId>a5265a5e-1bc0-4ff4-82ef-d82a1dc7f231</NeighbourLocationObjectId>
  <NeighbourLocationURI>/vmrest/locations/connectionlocations/a5265a5e-1bc0-4ff4-82ef-
d82a1dc7f231</NeighbourLocationURI>
  <MediatorLocationObjectId>a5265a5e-1bc0-4ff4-82ef-
d82a1dc7f231</MediatorLocationObjectId>
  <MediatorLocationURI>/vmrest/locations/connectionlocations/a5265a5e-1bc0-4ff4-82ef-
d82a1dc7f231</MediatorLocationURI>
  <RetryQueueSizeCount>0</RetryQueueSizeCount>
  <IsPrimary>>false</IsPrimary>
  <IsVpimBridgehead>>false</IsVpimBridgehead>
  <DirectorySynchronizationRole>0</DirectorySynchronizationRole>
</VnmapLocationHttps>
```

## Cisco\_Unity\_Connection\_Provisioning\_Interface\_(CUPI)\_API\_--\_Voice\_Network\_Map

Response Code: 200

### JSON Example to GET the details of particular Voice network map location of HTTP(S) network:

GET: https://<connectionserver>/vmrest/vnmaplocationhttpses/1dc58282-0f24-4a60-b285-fec9c938e306

Accept: application/json  
Content-type: application/json  
Connection: keep-alive

The following is the response from the above \*GET\* request:

```
<pre>
  ( {
    "URI": "/vmrest/vnmaplocationhttpses/1dc58282-0f24-4a60-b285-fec9c938e306",
    "ObjectId": "1dc58282-0f24-4a60-b285-fec9c938e306",
    "DisplayName": " qa-ks-vm-482",
    "HostAddress": "10.78.171.140",
    "DestinationType": "1",
    "LocationObjectId": "1dc58282-0f24-4a60-b285-fec9c938e306",
    "LocationURI": "/vmrest/locations/connectionlocations/1dc58282-0f24-4a60-b285-
fec9c938e306",
    "MaxUsn": "1488",
    "LastUsn": "1488",
    "ReplicationSetId": "02fd1f6e-edcd-4023-9ddb-60b95bc4d3e9",
    "Status": "0",
    "VoiceNameSyncStatus": "0",
    "TimeOfLastSync": "2013-06-24T12:46:14Z",
    "NeighbourLocationObjectId": "a5265a5e-1bc0-4ff4-82ef-d82a1dc7f231",
    "NeighbourLocationURI": "/vmrest/locations/connectionlocations/a5265a5e-1bc0-4ff4-
82ef-d82a1dc7f231",
    "MediatorLocationObjectId": "a5265a5e-1bc0-4ff4-82ef-d82a1dc7f231",
    "MediatorLocationURI": "/vmrest/locations/connectionlocations/a5265a5e-1bc0-4ff4-
82ef-d82a1dc7f231",
    "RetryQueueSizeCount": "0",
    "IsPrimary": "false",
    "IsVpimBridgehead": "false",
    "DirectorySynchronizationRole": "0"
  }
)

```

Response Code: 200

### Explanation of Data Fields

Parameter	Data Type	Operations	Description
URI	String	Read-Only	Voice Network Map URI
ObjectId	char(36)	Read-Only	Object ID of Voice Network Map Location
DisplayName	nvarchar(64)	Read-Only	Specifies the display name of the location.
HostAddress	varchar(40)	Read-Only	Specifies the IP address of the location
DestinationType	int	Read-Only	Specifies the destination type for the location, e.g. Connection, Unity, VPIM, Bridge.

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			<p>Values can be:</p> <ul style="list-style-type: none"> <li>• 1 ? Connection</li> <li>• 2 ? Unity</li> <li>• 8 ? VPIM</li> </ul>
LocationObjectId	char(36)	Read-Only	Specifies the Object id of the location.
LocationURI	String	Read-Only	Location URI
MaxUsn	bigint	Read-Only	Specifies the maximum USN received in feed response.
LastUsn	bigint	Read-Only	Specifies the last USN synced.
ReplicationSetId			Specifies the Replication Set of the location.
Status	smallint	Read-Only	<p>Indicates the status of the directory synchronization with the location.</p> <p>Values can be:</p> <ul style="list-style-type: none"> <li>• 0-Idle</li> <li>• 1-synching</li> </ul>
VoiceNameSyncStatus	smallint	Read-Only	<p>Indicates the status of voice name synchronization with the location.</p> <p>Values can be: 0- Idle 1- Synching</p>
TimeOfLastSync	datetime	Read-Only	Reflects the time at which the location was last synchronized.
NeighbourLocationObjectId	char(36)	Read-Only	<p>Specifies Object Id of neighbour location.</p> <p><b>Note:</b> Neighbour location of location A on B is the farthest location which is directly connected to location A while traversing from location B till A.</p>
NeighbourLocationURI	String	Read-Only	Neighbour Location URI
MediatorLocationObjectId	char(36)	Read-Only	<p>Specified the object id of Mediator location.</p> <p><b>Note:</b> Mediator location of a location A on B is the http(s) link(location) via which location A has been synchronized.</p>
MediatorLocationURI	String	Read-Only	Mediator Location URI
RetryQueueSizeCount	bigint	Read-Only	Specifies the count of errors encountered during synchronization of the location.
IsPrimary	Boolean	Read-Only	Specifies whether the location is primary location.

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			<p>Values can be:</p> <ul style="list-style-type: none"> <li>• 0 ? true</li> <li>• 1 ? false</li> </ul>
IsVpimBridgehead	Boolean	Read-Only	<p>Specifies whether the location is VPIM bridgehead.</p> <p>Values can be:</p> <ul style="list-style-type: none"> <li>• 0 ? true</li> <li>• 1 ? false</li> </ul>
DirectorySynchronizationRole	smallint	Read-Only	<p>Specifies the directory synchronization mode in the cluster.</p> <p>Values can be:</p> <ul style="list-style-type: none"> <li>• 0-Standard</li> <li>• 1-Alert</li> </ul>