Cisco Unity Connection Provisioning Interface (CUPI) API -- Alternate Devices

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Alternate Devices API

The level of access a user has to his or her Alternate Devices (or Alternate Extensions) is determined by the user's class of service. The four levels of access are:

- No access
- Read access to administrator-defined alternate devices only
- Read/Write access to user-defined alternate devices only
- Full access (read access to administrator-defined alternate devices and read/write access to user-defined alternate devices)

Listing the Alternate Devices

Only alternate devices visible to the user (determined by the user's access level defined in his or her Class of Service) are returned. In the example below, the user has full access to his or her alternate devices, and the GET request yields a response that indicates the user has three alternate devices, two of which are administrator-defined and one user-defined:

```
GET http://<connection-server>/vmrest/user/alternatedevices
```

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

```
<AlternateDevices total="3">
  <AlternateDevice>
   <URI>/vmrest/user/alternatedevices/e14bc9ef-57af-401c-a826-3e7603a36106</URI>
   <DisplayName>Alt Ext</DisplayName>
   <DtmfAccessId>3232</DtmfAccessId>
   <ObjectId>e14bc9ef-57af-401c-a826-3e7603a36106</ObjectId>
   <UserDefined>false</UserDefined>
  </AlternateDevice>
  <AlternateDevice>
   <URI>/vmrest/user/alternatedevices/4960bf32-6c4e-4a6a-97e1-dfe2858f89a6</URI>
   <DisplayName>Work Fax</DisplayName>
   <DtmfAccessId>0329</DtmfAccessId>
   <ObjectId>4960bf32-6c4e-4a6a-97e1-dfe2858f89a6</ObjectId>
   <UserDefined>false</UserDefined>
  </AlternateDevice>
  <AlternateDevice>
   <URI>/vmrest/user/alternatedevices/2d7e426d-4e43-4d5e-8c3e-eb498856dcfc</URI>
   <DisplayName>User-Defined Home Phone</DisplayName>
   <DtmfAccessId>5551234</DtmfAccessId>
   <ObjectId>2d7e426d-4e43-4d5e-8c3e-eb498856dcfc</ObjectId>
   <UserDefined>true</UserDefined>
  </AlternateDevice>
</AlternateDevices>
```

```
Response Code: 200
```

JSON Example

```
GET http://<connection-server>/vmrest/user/alternatedevices
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",
"AlternateDevice":
[
  {
  "URI": "/vmrest/user/alternatedevices/e14bc9ef-57af-401c-a826-3e7603a36106",
  "DisplayName": "Alt Ext",
  "DtmfAccessId": "3232",
  "ObjectId": "e14bc9ef-57af-401c-a826-3e7603a36106",
  "UserDefined": "false"
  },
  {
  "URI": "/vmrest/user/alternatedevices/4960bf32-6c4e-4a6a-97e1-dfe2858f89a6",
  "DisplayName": "Work Fax",
  "DtmfAccessId": "0329",
  "ObjectId": "4960bf32-6c4e-4a6a-97e1-dfe2858f89a6",
  "UserDefined": "false"
  },
  {
  "URI": "/vmrest/user/alternatedevices/2d7e426d-4e43-4d5e-8c3e-eb498856dcfc",
  "DisplayName": "User-Defined Home Phone",
  "DtmfAccessId": "5551234",
  "ObjectId": "2d7e426d-4e43-4d5e-8c3e-eb498856dcfc",
  "UserDefined": "true"
  }
]
}
```

```
Response Code: 200
```

Listing Details of a Specific Alternate Device

To retrieve a specific alternate device by its object ID:

```
GET http://<connection-server>/vmrest/user/alternatedevices/<alternate-device-objectid>
```

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

```
<AlternateDevice>
  <DisplayName>User-Defined Home Phone</DisplayName>
  <DtmfAccessId>5551234</DtmfAccessId>
  <ObjectId>2d7e426d-4e43-4d5e-8c3e-eb498856dcfc</ObjectId>
  <UserDefined>true</UserDefined>
</AlternateDevice>
```

```
Response Code: 200
```

To retrieve only the user-defined alternate devices or only the administrator-defined ones, append the query parameter "userDefined=true" or "userDefined=false" respectively. For example, the following GET returns only the administrator-defined devices (assuming the user has access to administrator-defined devices):

```
GET https://<connection-server>/vmrest/user/alternatedevices?userDefined=false
```

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

```
<AlternateDevices total="2">
  <AlternateDevice>
   <URI>/vmrest/user/alternatedevices/e14bc9ef-57af-401c-a826-3e7603a36106</URI>
   <DisplayName>Alt Ext</DisplayName>
   <DtmfAccessId>3232</DtmfAccessId>
   <ObjectId>e14bc9ef-57af-401c-a826-3e7603a36106</ObjectId>
   <UserDefined>false</UserDefined>
  </AlternateDevice>
  <AlternateDevice>
   <URI>/vmrest/user/alternatedevices/4960bf32-6c4e-4a6a-97e1-dfe2858f89a6</URI>
   <DisplayName>Work Fax</DisplayName>
   <DtmfAccessId>0329</DtmfAccessId>
   <ObjectId>4960bf32-6c4e-4a6a-97e1-dfe2858f89a6</ObjectId>
   <UserDefined>false</UserDefined>
  </AlternateDevice>
</AlternateDevices>
```

```
Response Code: 200
```

Create an Alternate Device

To create a new Alternate Device, use the POST method. The only required field for creating an alternate device is the DtmfAccessId. In addition to the DtmfAccessId, you can also specify the device's Display Name.

For example, assuming a user's Class of Service allows access to user-defined Alternate Devices, the user can create a new one as follows:

```
POST https://<connection-server>/vmrest/user/alternatedevices
```

```
<AlternateDevice>
  <DisplayName>New Device</DisplayName>
  <DtmfAccessId>1001</DtmfAccessId>
</AlternateDevice>
```

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/user/alternatedevices/f4fd32c2-e6b7-48ff-8836-4ac2c100f9fc
```

JSON Example

```
POST http://<connection-server>/vmrest/user/alternatedevices
Accept: application/json
Content-type: application/json
Connection: keep-alive
```

```
{
  "DisplayName": "New Device",
  "DtmfAccessId": "1001"
}
```

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/user/alternatedevices/f4fd32c2-e6b7-48ff-8836-4ac2c100f9fc
```

Update an Alternate Device

Users are not allowed to update or delete administrator-defined alternate devices. They can, however, update or delete user-defined ones, assuming their Class of Service allows them access to user-defined alternate devices. For example, to change the DtmfAccessId of the user-defined alternate device in the creation example above, use the PUT method as follows:

```
PUT http://<connection-server>/vmrest/user/alternatedevices/<alternate-device-objectid>
```

```
<AlternateDevice>
  <DisplayName>New Device</DisplayName>
  <DtmfAccessId>1002</DtmfAccessId>
</AlternateDevice>
```

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 http://<connection-server>/vmrest/user/alternatedevices/<alternate-device-objectid>
Accept: application/json
Content-type: application/json
Connection: keep-alive
```

```
{

  "DtmfAccessId": "1002"
}
```

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
```

Delete an Alternate Device

This request can be used to delete an alternate device.

```
DELETE http://<connection-server>/vmrest/user/alternatedevices/<alternate-device-objectid>
```

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

```
Response Code: 204
```

JSON Example

```
DELETE http://<connection-server>/vmrest/user/alternatedevices/<alternate-device-objectid>

Accept: application/json
Connection: keep-alive
```

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

```
Response Code: 204
```

Explanation of Data Fields

Parameter	Operation	Data Type	Comments
URI	Read Only	String	URI of the Alternate Device
ObjectId	Read Only	String(36)	Display Name of the Alternate Device
DisplayName	Read/Write	String(64)	Unique identifier of the Alternate Device.
DtmfAccessId	Read/Write	Integer	Extension number for the Alternate Device.

Parameter	Operation	Data Type	Comments
UserDefined	Read Only	Boolean	Flag to indicate whether its a user defined Alternate Device or is an administrator defined Alternate Device. • true: the alternate device is user defined • false: the alternate device is administrator defined Default value is false.