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Restriction Patterns

Administrator can use this API to create/update/delete/fetch the restriction pattern. Various attributes of restriction pattern can also be updated using this API.

Listing the Restriction Pattern for a Particular Restriction Table

The following is an example of the GET request that lists all the restriction tables:

```
GET https://<connection-server>/vmrest/restrictiontables
/<restrictiontableobjectid>/restrictionpatterns
```

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

```
<RestrictionPatterns total="2">
  <RestrictionPattern>
    <URI>/vmrest/restrictiontables/38de2a1f-ca74-4be3-bb7cd315df4c0fc5/
  restrictionpatterns/6564adb9-9090-42e0-81e6-04e132c4382c</URI>
    <Blocked>true</Blocked>
    <NumberPattern>*</NumberPattern>
    <RestrictionTableObjectId>38de2a1f-ca74-4be3-bb7cd315df4c0fc5</
  RestrictionTableObjectId>
   <SequenceNumber>1</SequenceNumber>
   <ObjectId>6564adb9-9090-42e0-81e6-04e132c4382c</ObjectId>
  </RestrictionPattern>
  <RestrictionPattern>
    <URI>/vmrest/restrictiontables/38de2a1f-ca74-4be3-bb7cd315df4c0fc5/
  restrictionpatterns/15a68e67-16b9-4847-8230-29be9baa88cf</URI>
    <Blocked>true</Blocked>
    <NumberPattern>*</NumberPattern>
    <RestrictionTableObjectId>38de2a1f-ca74-4be3-bb7cd315df4c0fc5</
  RestrictionTableObjectId>
    <SequenceNumber>0</SequenceNumber>
```

```
        <ObjectId>15a68e67-16b9-4847-8230-29be9baa88cf</ObjectId>
    </RestrictionPattern>
</RestrictionPatterns>

Response Code: 200
```

JSON Example

To list all restriction patterns of a particular restriction table, do the following:

```
Request URI:
GET https://<connection-server>/vmrest/restrictiontables/<restrictiontableobjectid>/restrictionpat
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",
  "RestrictionPattern": [
  {
    "URI": "/vmrest/restrictiontables/4f01e5b1-b649-4f94-b55e-
    0c53d0e29c38/restrictionpatterns/84eb77f2-7b12-402b-967b-827efd81e485",
    "Blocked": "true",
    "NumberPattern": "+*",
    "RestrictionTableObjectId": "4f01e5b1-b649-4f94-b55e-0c53d0e29c38",
    "SequenceNumber": "0",
    "ObjectId": "84eb77f2-7b12-402b-967b-827efd81e485"
  },
  {
    "URI": "/vmrest/restrictiontables/4f01e5b1-b649-4f94-b55e-
    0c53d0e29c38/restrictionpatterns/c2ee84be-546e-493e-8e94-6f20bbdcc515",
    "Blocked": "true",
    "NumberPattern": "9+*",
    "RestrictionTableObjectId": "4f01e5b1-b649-4f94-b55e-0c53d0e29c38",
    "SequenceNumber": "1",
    "ObjectId": "c2ee84be-546e-493e-8e94-6f20bbdcc515"
  },
  ]
}

Response Code: 200
```

Viewing the Specific Restriction Pattern for a Particular Restriction Table

The following is an example of the GET request that lists the details of specific restriction pattern represented by the provided value of object ID:

```
  GET https://<connection-server>/vmrest/restrictiontables/
  <restrictiontableobjectid>/restrictionpatterns/<restrictiontableobjectid>
The following is the response from the above *GET* request:
<RestrictionPattern>
    <URI>/vmrest/restrictiontables/2c2c9504-8fb4-44e3-983c-
  93eb4e20325c/restrictionpatterns/2c2c9504-8fb4-44e3-983c-93eb4e20325c</URI>
    <Blocked>false</Blocked>
    <NumberPattern>*</NumberPattern>
    <RestrictionTableObjectId>255bfdd2-5686-47f2-b40a-
```

```
   320c194521ba</RestrictionTableObjectId>
     <RestrictionTableURI>/vmrest/restrictiontables/255bfdd2-5686-47f2-b40a-
   320c194521ba</RestrictionTableURI>
     <SequenceNumber>1</SequenceNumber>
     <ObjectId>2c2c9504-8fb4-44e3-983c-93eb4e20325c</ObjectId>
</RestrictionPattern>

Response Code: 200
```

Creating a Restriction Pattern

The following is an example of the POST request that creates a restriction pattern:

```
POST https://<connectionserver>/
vmrest/restrictiontables/<restrictiontableobjectid>/restrictionpatterns
```

Example 1: The following is the example of the create request from the above *POST* request.

```
Request Body:
<RestrictionPattern>
     <NumberPattern>*#</NumberPattern>
</RestrictionPattern>

Response Code: 201
```

JSON Example

To create new restriction pattern, do the following:

```
Request URI:
POST https://<connectionserver>/
vmrest/restrictiontables/<restrictiontableobjectid>/restrictionpatterns
Accept: application/json
Content-Type: application/json
Connection: keep-alive
Request Body:
{
     "NumberPattern": "*#"
}
```

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
```

Example 2: The following is the example of the create request with specific restriction table Object ID

```
Request Body:
<RestrictionPattern>
     <NumberPattern>*#??</NumberPattern>
     <RestrictionTableObjectId>38de2a1f-ca74-4be3-bb7c-d315df4c0fc5</RestrictionTableObjectId>
</RestrictionPattern>

Response Code: 201
```

Updating a Restriction Pattern

The following is an example of the PUT request that allows you to update the restriction pattern:

Example 1: Change number pattern of restriction pattern

```
  PUT https://<connection-
  server>/vmrest/restrictiontables/<restrictiontableobjectid>/restrictionpatterns/<restrictionpatt
  bjectid>
Request Body:
<RestrictionPattern>
     <NumberPattern>??999#</NumberPattern>
</RestrictionPattern>

Response Code: 204
```

JSON Example

To change number pattern of restriction pattern, do the following:

```
Request URI:
  PUT https://<connection-
  server>/vmrest/restrictiontables/<restrictiontableobjectid>/restrictionpatterns/<restrictionpatt
  id>
Accept: application/json
Content-Type: application/json
Connection: keep-alive
{
     "NumberPattern": "99??"
}
```

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

```
Request URI: 204
```

Example 2: Change sequence of restriction pattern

NOTE:

```
*To change the sequence of restriction patterns GET the object id of restriction patterns and arra
*To change the sequence of restriction patterns through API, you must provide all the restriction

PUT https://<connectionserver>/
vmrest/restrictiontables/<restrictiontableobjectid>/restrictionpatterns
Request Body:
<RestrictionPatterns>
  <RestrictionPattern>
     <ObjectId>6564adb9-9090-42e0-81e6-04e132c4382c</ObjectId>
  </RestrictionPattern>
  <RestrictionPattern>
     <ObjectId>d9cd1525-462b-4eef-8629-0be9d0db2d18</ObjectId>
  </RestrictionPattern>
  <RestrictionPattern>
     <ObjectId>db0aed70-316b-47cb-8335-52fe34d3ca94</ObjectId>
  </RestrictionPattern>
  <RestrictionPattern>
     <ObjectId>46485dc6-bf31-4b31-be58-9eacbe718d02</ObjectId>
  </RestrictionPattern>
```

```
  <RestrictionPattern>
    <ObjectId>b7d51bb8-0059-4b56-aadd-6f9e2eaea624</ObjectId>
  </RestrictionPattern>
</RestrictionPatterns>
```

```
Response Code: 204
```

NOTE: Default restriction pattern can neither be edited nor be deleted.

NOTE: The entire restriction pattern Object Id is given including default restriction pattern. But sequence of default restriction pattern cannot be changed because default restriction pattern cannot be edited nor be deleted.

Deleting a Restriction Pattern

Example 1: Delete particular restriction pattern The following is an example of the DELETE request that deletes a specific restriction table where you need to mention the restriction pattern object ID:

```
DELETE https://<connection-
server>/vmrest/restrictiontables/<restrictiontableobjectid>/restrictionpatterns/<restrictionpatte
bjectid>
```

```
Response Code: 204
```

JSON Example

To delete particular restriction pattern, do the following:

```
DELETE https://<connectionserver>/
vmrest/restrictiontables/<restrictiontableobjectid>/restrictionpatterns/<restrictionpatternobject
id>
Accept: application/json
Connection: keep-alive
```

```
Response Code: 204
```

NOTE:

- Default restriction pattern cannot be edited or deleted.
- When restriction pattern is blocked than then calls matching to dial string will not be allowed.

Explanation of Data Fields

The following chart lists all of the data fields:

Device Name	Data Type	Operation	Comments
NumberPattern	Varchar	Read/Write	The specific numbers or patterns of numbers (including external and long-distance access codes) that can be permitted or restricted. It uses digits 0 through 9 plus the following special characters: • *Match zero or more digits

			• ? Match exactly one digit. Each ??? serves as a placeholder for one digit. • # Corresponds to the # key on the phone • + to call from one country to other country For example, to screen out all phone numbers that start with 206 but are longer than 7 digits, enter 9206?????* for the pattern (and set "Blocked" == true). Maximum length can be 40.
Blocked	Boolean	Read/Write	A flag indicating whether Cisco Unity Connection permits the use of dial strings matching the pattern. Values: • false: Permit use of dial strings matching the pattern • true: Do not permit use of dial strings matching the pattern Default Value - true
ObjectId	String(36)	Read only	Specifies the object ID of restriction patterns.
RestrictionTableObjectId	String(36)	Read only	Specifies the restriction table object id to which restriction pattern belongs.
SequenceNumber	Integer(2)	Read only	A sequential index for this restriction pattern within the parent restriction table, which specifies the order in which Cisco Unity Connection will apply each call pattern.

Explanation of Data Fields