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CUPI Guide Contents

API Overview

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About Cisco Unity Connection Survivable Remote Site Voicemail (SRSV)

Cisco Unity Connection Survivable Remote Site Voicemail (SRSV) is a survivable voicemail solution that works in conjunction with Cisco Unity Connection Survivable Remote Site Telephony (SRST) in order to provide voicemail service to a branch site when connectivity to a central voicemail service is lost.

Listing the Branches

The following is an example of the *GET* request that lists the branches present in the Connection server:

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

The following is an example of response from the above *GET* request and the actual result will depend upon the information that has been provided by you:

Response Code: 200

```
<Branches total="2">
  <Branch>
    <URI>/vmrest/branches/1e0ed69d-028d-4156-9d68-f14a90438448</URI>
    <ObjectId>1e0ed69d-028d-4156-9d68-f14a90438448</ObjectId>
    <IsAlive>>true</IsAlive>
    <IsDisabled>>false</IsDisabled>
    <OperatorObjectId>159bb671-cbba-4964-b06b-871f990e1de8</OperatorObjectId>
    <Port>443</Port>
    <ProvisionState>0</ProvisionState>
    <ServerAddress>mysrsv.cisco.com</ServerAddress>
    <SyncGreetings>>false</SyncGreetings>
    <SyncVoiceName>>false</SyncVoiceName>
    <UserName>admin</UserName>
    <VmUploadState>0</VmUploadState>
    <DisplayName>Branch1</DisplayName>
    <PartitionObjectId>d6ac04c5-fb36-4e21-9e60-d15e0f9c6971</PartitionObjectId>
```

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```

<PartitionURI>/vmrest/partitions/d6ac04c5-fb36-4e21-9e60-d15e0f9c6971</PartitionURI>
<SmtpDomain>mysrsv.cisco.com</SmtpDomain>
</Branch>
<Branch>
<URI>/vmrest/branches/c3816faf-8dc6-48f3-9c6a-b8e93bba1c42</URI>
<ObjectId>c3816faf-8dc6-48f3-9c6a-b8e93bba1c42</ObjectId>
<IsAlive>true</IsAlive>
<IsDisabled>>false</IsDisabled>
<OperatorObjectId>159bb671-cbba-4964-b06b-871f990e1de8</OperatorObjectId>
<Port>443</Port>
<ProvisionState>0</ProvisionState>
<ServerAddress>mysrsv1.cisco.com</ServerAddress>
<SyncGreetings>>false</SyncGreetings>
<SyncVoiceName>>false</SyncVoiceName>
<UserName>admin</UserName>
<VmUploadState>0</VmUploadState>
<DisplayName>Branch2</DisplayName>
<PartitionObjectId>765cd618-0cff-43a4-b781-efdba282dba4</PartitionObjectId>
<PartitionURI>/vmrest/partitions/765cd618-0cff-43a4-b781-efdba282dba4</PartitionURI>
<SmtpDomain>mysrsv1.cisco.com</SmtpDomain>
</Branch>
</Branches>

```

Explanation of Data Fields

The following chart lists the data fields:

Field Name	Read/Write	Possible Values	Description
ObjectId	Read/Write	objectid	The object id of the branch at central Connection server.
IsAlive	Read	true/false	Connectivity status between central Connection and branch Connection SRSV server.
IsDisabled	Read/Write	true/false	Disabled status of branch on central Connection server.
OperatorObjectId	Read/Write	objectid	The object id of the user which is assigned as the operator user for the branch on the central Connection server.
Port	Read/Write	Port number	PAT port number for the branch server.
ProvisionState	Read/Write	0 ? Idle, 1 ? Scheduled, 2 ? In-progress	Current provisioning status of branch on the central Connection server.
ServerAddress	Read/Write	FQDN, IP Address	The address of the branch server.
SyncGreetings	Read/Write	true/false	Option to enable/disable syncing of greetings for users.
SyncVoiceName	Read/Write	true/false	Option to enable/disable syncing of voice names for users.
UserName	Read/Write	String	User name to be used for REST communication between central Connection and branch Connection SRSV server.
VmUploadState	Read/Write		

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		0 ? Idle, 1 ? Scheduled, 2 ? In-progress	Current voicemail upload status of branch on the central Connection server.
DisplayName	Read/Write	String	Display name of the branch Connection SRSV server on the central Connection server.
PartitionObjectId	Read/Write	ObjectId	Partition object ID associated with the branch on the central Connection server.
SmtDomain	Read/Write	Domain name	Smt domain of the branch Connection SRSV server.

Viewing Data for an Individual Branch

The following is an example of the *GET* request that lists the properties for an individual branch present in the central Connection server:

```
GET https://<connection-server>/vmrest/branches/<objectId>
```

The following is an example of response from the above *GET* request and the actual result will depend upon the information that has been provided by you:

Response Code: 200

```
<Branch>
<URI>/vmrest/branches/c3816faf-8dc6-48f3-9c6a-b8e93bba1c42</URI>
<ObjectId>c3816faf-8dc6-48f3-9c6a-b8e93bba1c42</ObjectId>
<IsAlive>>true</IsAlive>
<IsDisabled>>false</IsDisabled>
<OperatorObjectId>159bb671-cbba-4964-b06b-871f990e1de8</OperatorObjectId>
<Port>443</Port>
<ProvisionState>0</ProvisionState>
<ServerAddress>mysrsv.cisco.com</ServerAddress>
<SyncGreetings>>false</SyncGreetings>
<SyncVoiceName>>false</SyncVoiceName>
<UserName>admin</UserName>
<VmUploadState>0</VmUploadState>
<DisplayName>branch16</DisplayName>
<PartitionObjectId>765cd618-0cff-43a4-b781-efdba282dba4</PartitionObjectId>
<PartitionURI>/vmrest/partitions/765cd618-0cff-43a4-b781-efdba282dba4</PartitionURI>
<SmtDomain>mysrsv.cisco.com</SmtDomain>
</Branch>
```

Explanation of Data Fields

The following chart lists the data fields:

Field Name	Read/Write	Possible Values	Description
URI	Read	URL to access the branch.	Server address of a particular branch.
ObjectId	Read/Write	object ID	The object id of the branch at central Connection server.
IsAlive	Read/Write	true/false	Connectivity status between central and branch Connection server.

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IsDisabled	Read/Write	true/false	Disabled status of branch on central Connection server.
OperatorObjectId	Read/Write	Objectid	The object id of the user which is assigned as the operator user for the branch on central Connection server.
Port	Read/Write	Port number	PAT port number for the branch server.
ProvisionState	Read/Write	0 ? Idle, 1 ? Scheduled, 2 ? In-progress	Current provisioning status of branch on central Connection server.
ServerAddress	Read/Write	FQDN, IP Address	The address of the branch Connection server.
SyncGreetings	Read/Write	true/false	Option to enable/disable syncing of greetings for users.
SyncVoiceName	Read/Write	true/false	Option to enable/disable syncing of voice names for users.
UserName	Read/Write	String	User name of the administrator of a particular branch.
VmUploadState	Read/Write	0 ? Idle, 1 ? Scheduled, 2 ? In-progress	Current voicemail upload status of branch on central server.
DisplayName	Read/Write	String	Display name of the branch server on the central Connection server.
PartitionObjectId	Read/Write	ObjectId	Partition object ID associated with the branch on the central Connection server.
PartitionURI	Read/Write	URL	Partition URL associated with the branch on the central Connection server.
SmtDomain	Read/Write	Domain name	Smt domain of the branch server.

Creating a Branch

The following is an example of the *POST* request that is used for creating a branch on the central Connection server:

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

```
<Branch>
  <IsDisabled>>false</IsDisabled>
  <OperatorObjectId>159bb671-cbba-4964-b06b-871f990e1de8</OperatorObjectId>
  <Port>443</Port>
  <ServerAddress>mysrsv.cisco.com</ServerAddress>
  <SyncGreetings>>false</SyncGreetings>
  <SyncVoiceName>>false</SyncVoiceName>
  <UserName>admin</UserName>
  <Password>test</Password>
  <DisplayName>branch16</DisplayName>
  <PartitionObjectId>765cd618-0cff-43a4-b781-efdba282dba4</PartitionObjectId>
  <SmtDomain>mysrsv.cisco.com</SmtDomain>
</Branch>
```

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The mandatory properties are ServerAddress, UserName, Password, DisplayName, PartitionObjectId, and SmtDomain.

The successful response code returned for this API is 201. The error response code and data will depend upon the information provided by you:

Response Code: 201

/vmrest/branches/c3816faf-8dc6-48f3-9c6a-b8e93bba1c42

Explanation of Data Fields

The following chart lists the data fields:

Field Name	Read/Write	Possible Values	Description
IsDisabled	Read/Write	true/false	Enables or activates the branch.
OperatorObjectId	Read/Write	Object ID of the operator.	The operator or the user that must be used to synchronize the messages received by the branch Connection server.
Port	Read/Write	Port number	A port number that the branch uses to communicate with Cisco Unity Connection.
ServerAddress	Read/Write	FQDN, IP Address	The IP address or the Fully Qualified Domain Name (FQDN) of the branch Connection SRSV server.
SyncGreetings	Read/Write	true/false	Synchronize the greetings for the users on the branch Connection SRSV server.
SyncVoiceName	Read/Write	true/false	Synchronize the recorded voice name of the user on the branch Connection SRSV server.
UserName	Read/Write	String	The user name of the administrator of the branch Connection server.
Password	Read/Write	String	The password of the administrator of the branch Connection server.
DisplayName	Read/Write	String	Display name of the branch server on the central Connection server.
PartitionObjectId	Read/Write	ObjectId	Partition object ID associated with the branch on the central Connection server.
SmtDomain	Read/Write	Domain name	Smt domain of the branch server.

Updating a Branch

The following is an example of the *PUT* request that is used for updating a branch on the central Connection server:

```
PUT https://<connection-server>/vmrest/branches/c3816faf-8dc6-48f3-9c6a-b8e93bba1c42
```

```
<Branch>  
  <IsDisabled>false</IsDisabled>  
  <OperatorObjectId>159bb671-cbba-4964-b06b-871f990e1de8</OperatorObjectId>
```

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```
<Port>443</Port>
<ServerAddress>mysrsv.cisco.com</ServerAddress>
<SyncGreetings>>false</SyncGreetings>
<SyncVoiceName>>false</SyncVoiceName>
<UserName>admin</UserName>
<Password>test</Password>
<DisplayName>branch16</DisplayName>
<PartitionObjectId>765cd618-0cff-43a4-b781-efdba282dba4</PartitionObjectId>
<SmtDomain>mysrsv.cisco.com</SmtDomain>
<ProvisionState>1</ProvisionState>
<VmUploadState>0</VmUploadState>
</Branch>
```

This *PUT* request is also used for scheduling a branch for provisioning and voicemail upload. Only the properties mentioned in above XML are writable at the time of modifying a branch. The properties, ProvisionState and VmUploadState, can not be put in the request XML at the same time as a branch can be scheduled either for provisioning or voicemail upload, at a given point of time. The value of those fields can only be 1.

The successful response code returned for this API is 201. The error response code and data will depend upon the information provided by you:

Response Code: 201

/vmrest/branches/c3816faf-8dc6-48f3-9c6a-b8e93bba1c42

Explanation of Data Fields

The following chart lists the data fields:

Field Name	Read/Write	Possible Values	Description
IsDisabled	Read/Write	true/false	Enables or activates the branch.
OperatorObjectId	Read/Write	Object ID of the operator.	The operator or the user that must be used to synchronize the messages received by the branch Connection server.
Port	Read/Write	Port number	A port number that the branch uses to communicate with Cisco Unity Connection.
ServerAddress	Read/Write	FQDN, IP Address	The IP address or the Fully Qualified Domain Name (FQDN) of the branch Connection server.
SyncGreetings	Read/Write	true/false	Synchronize the greetings for the users on the branch.
SyncVoiceName	Read/Write	true/false	Synchronize the recorded voice name of the user on the branch.
UserName	Read/Write	String	The user name of the administrator of the branch Connection SRSV server.
Password	Read/Write	String	The password of the administrator of the branch Connection SRSV server.
DisplayName	Read/Write	String	

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			Display name of the branch server on the central Connection server.
PartitionObjectId	Read/Write	ObjectId	Partition object ID associated with the branch on the central Connection server.
SmtpDomain	Read/Write	Domain name	Smtp domain of the branch server.
ProvisionState	Read/Write	0 ? Idle, 1 ? Scheduled, 2 ? In-progress	Current provisioning status of branch on central Connection server.
VmUploadState	Read/Write	0 ? Idle, 1 ? Scheduled, 2 ? In-progress	Current voicemail upload status of branch on central Connection server.

Deleting a Branch

The following is an example of the Delete request that is used for deleting a branch on the central Connection server:

```
DELETE /vmrest/branches/c3816faf-8dc6-48f3-9c6a-b8e93bba1c42
```

A branch using this API can only be deleted, if the branch is not in the **in-progress** state neither for provisioning nor voicemail upload.

The successful response code returned for this API is 201. The error response code and data will depend upon the information provided by you:

Response Code: 201 Data: NA

Assigning a User to Branch

The following is an example of the Put request that is used for assigning a branch to a user by allocating the branch partition to it:

```
PUT /vmrest/users/<userObjectId>
```

```
<User>  
<PartitionObjectId>partitionObjectIdMappedToBranch</PartitionObjectId>  
</User>
```

To fetch the partition information of a branch, you can use the API to view the details of a branch. Refer to the Viewing Data for an Individual Branch section for more information. The PartitionObjectId element given in the response XML of this section denotes the partition mapped with the branch.

Response Code: 204

Removing a User from a Branch

The following is an example of the Put request that is used for removing a user from a branch by modifying its partition to some other partition that is not mapped to that branch:

```
PUT /vmrest/users/<userObjectId>
```

```
<User>
<PartitionObjectId>partitionObjectIdNotMappedToBranch</PartitionObjectId>
</User>
```

To fetch the partition information of a branch, you can use the API to view the details of a branch. Refer to the Viewing Data for an Individual Branch, page 21-3 section for more information. The PartitionObjectId element given in the response XML of this section denotes the partition mapped with the branch.

Response Code: 204

Listing All Users Those Are Part of a Particular Branch

The following is an example of the Get request that is used to list the users those are part of a particular branch by searching with the partition object ID of the branch:

```
GET /vmrest/users?query=(PartitionObjectId is partitionObjectIdMappedToBranch)
```

```
<Users total="10">
<User>
<URI>/vmrest/users/cb13e6a9-7322-45fa-91cd-7a0b1e21b754</URI> <ObjectId>cb13e6a9-7322-45fa-91cd-7a
</User>
</Users>
```

Response Code: 200

Explanation of Data Fields

The following chart lists the data fields:

Field Name	Read/Write	Possible Values	Description
URI	Read	URL to access the branch.	Server address of a particular branch.
ObjectId	Read/Write	Object ID	The object id of the branch at the central Connection server.

Creating a Call Handler for a Branch

The following is an example of the Put request that is used to create a call handler:

```
POST /vmrest/handlers/callhandlers?templateObjectId=<callhandlerTemplateObjectId>
```

```
<Callhandler>
<DisplayName>Test</DisplayName>
</Callhandler>
```

This is an existing API for creating a call handler that can be used at the branch as well.

Response Code: 201

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/vmrest/handlers/callhandlers/<callhandlerObjectId>