Cisco Unity Connection Provisioning Interface (CUPI) API for Unified Messaging

Cisco Unity Connection Provisioning Interface (CUPI) API -- User Unified Messaging Account

Create a Unified Messaging Account

To add a new unified messaging account to user, server must have Unified Messaging Services Configured. The following URI can be used to view the user object ID:

```
GET https://<connection-server>/vmrest/users/<user-objectid
```

From the above URI, get the unified messaging account:

```
GET https://<connection-server>/vmrest/users/<user-objectid>/externalserviceaccounts
```

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

```
<ExternalServiceAccount>
    <URI>/vmrest/users/9375d893-c8eb-437b-90bf-
  7de4b1d0c3e8/externalserviceaccounts/39871e30-849a-4dcf-b868-2faf360d503a</URI>
    <ObjectId>39871e30-849a-4dcf-b868-2faf360d503a</ObjectId>
   <ExternalServiceObjectId>1cd78b6c-1e6e-4542-a6e7-14f431d6569c</ExternalServiceObjectId>

    <SubscriberObjectId>9375d893-c8eb-437b-90bf-7de4b1d0c3e8</SubscriberObjectId>
    <UserURI>/vmrest/users/9375d893-c8eb-437b-90bf-7de4b1d0c3e8</UserURI>
    <EnableCalendarCapability>true</EnableCalendarCapability>
    <EnableMeetingCapability>false</EnableMeetingCapability>
    <EnableTtsOfEmailCapability>true</EnableTtsOfEmailCapability>
    <IsPrimaryMeetingService>false</IsPrimaryMeetingService>
    <LoginType>0</LoginType>
    <UserPassword/>
    <EmailAddress>chhavi@com</EmailAddress>
    <EnableMailboxSynchCapability>true</EnableMailboxSynchCapability>
    <EmailAddressUseCorp>false</EmailAddressUseCorp>
</ExternalServiceAccount>
```

```
Response Code: 200
```

JSON Example

```
GET
https://<connection-server>/vmrest/users/<user-objectid>/externalserviceaccounts/<objectid>
Accept: application/json
Content-type: 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:

```
Response Code: 200
```

Updating the Unified Messaging Account

JSON Example

To view the unified messaging account, do the following:

```
Request URI:
PUT https://<connection-server>/vmrest/users/<userobjectid>/
externalserviceaccounts/<externalserviceaccountsobjectId>
Accept: application/json
Content-type: application/json
Connection: keep-alive
{
    "EmailAddressUseCorp":"true"
    "EnableCalendarCapability":"true"
    "EnableMailboxSynchCapability":"true"
      "EnablTtsOfEmailCapability":"true"
}
```

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
```

Explanation of Data Fields

Device Name	Data Type	Operation	Comments
EmailAddressUseCorp	Boolean	Read/Write	Use Corporate Email Address Default value: False
EnableTtsOfEmailCapability	Boolean	Read/Write	Access Exchange Email by Using Text to Speech (TTS) Default value: False
EnableCalendarCapability	Boolean	Read/Write	Access Exchange Calendar and Contacts Default value: False
EnableMailboxSynchCapability	Boolean	Read/Write	Synchronize Connection and Exchange Mailboxes (Single Inbox) Default value: False

Cisco Unity Connection Provisioning Interface (CUPI) API -- User Template Unified Messaging Account

Unified Messaging Account API

The following URI can be used to view the user template object ID:

```
GET https://<connection-server>/vmrestvmrest/usertemplates/<usertemplateobjectid>
```

From the above URI, get the unified messaging account:

```
GET https://<connection-
    server>/vmrestvmrest/usertemplates/<usertemplateobjectid>/templateexternalserviceacco
    unts
```

Updating the Unified Messaging Account

```
Request Body:
<TemplateExternalServiceAccount>
    <EmailAddressUseCorp>true</EmailAddressUseCorp>
    <EnableCalendarCapability>true</EnableCalendarCapability>
    <EnableMailboxSynchCapability>true</EnableMailboxSynchCapability>
    <EnableTtsOfEmailCapability>true</EnableTtsOfEmailCapability>
</TemplateExternalServiceAccount>
```

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 view the unified messaging account, do the following:

```
Request URI:
GET
https://<connection-server>/vmrest/usertemplates/<usertemplateobjectid>/templateexternalserviceaccounts/<templateexternalserviceaccountsobjectId

Accept: application/json
Content-type: 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:

```
{
    "EmailAddressUseCorp":"true"
    "EnableCalendarCapability":"true"
    "EnableMailboxSynchCapability":"true"
     "EnablTtsOfEmailCapability":"true"
}
```

```
Response Code: 200
```

Explanation of Data Fields

Device Name	Data Type	Operation	Comments
EmailAddressUseCorp	Boolean	Read/Write	Use Corporate Email Address Default value: False
EnableTtsOfEmailCapability	Boolean	Read/Write	Access Exchange Email by Using Text to Speech (TTS) Default value: False
EnableCalendarCapability	Boolean	Read/Write	Access Exchange Calendar and Contacts Default value: False
EnableMailboxSynchCapability	Boolean	Read/Write	Synchronize Connection and Exchange Mailboxes (Single Inbox) Default value: False

Cisco Unity Connection Provisioning Interface (CUPI) API -- User Template External Services

About External Services

This page contains information on how to use the API to create, list, modify, and delete Unified Messaging Services (also known as external services). When you create Unified Messaging Service Accounts, you base

each account on a Unified Messaging Service. Creating a new Unified Messaging service is based on any one of the following:

- Exchange/BPOS-D
- MeetingPlace
- Office 365
- Google Workspace *(applicable with Unity Connection 14 and later)*

Unity Connection 14 and later provides a new way to users for accessing the voice messages on their Gmail account. For this, you need to configure unified messaging with Google Worspace to synchronize the voice messages between Unity Connection and Gmail server.

Listing External Services

Example 1

The following is an example of the GET request that lists the Unified Messaging Services:

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

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:

```xml
<ExternalServices total="3">
  <ExternalService>
    <URI>/vmrest/externalservices/53a7675f-94c2-4596-ae3a-69b9287d119d</URI>
    <ObjectId>53a7675f-94c2-4596-ae3a-69b9287d119d</ObjectId>
    <AuthenticationMode>3</AuthenticationMode>
    <DisplayName>exchange_1</DisplayName>
    <IsEnabled>true</IsEnabled>
    <SecurityTransportType>1</SecurityTransportType>
    <Server>10.78.171.187</Server>
    <ServiceAlias>admin</ServiceAlias>
    <ServicePassword/>
    <ServerType>4</ServerType>
    <SupportsCalendarCapability>true</SupportsCalendarCapability>
    <SupportsTtsOfEmailCapability>true</SupportsTtsOfEmailCapability>
    <ValidateServerCertificate>false</ValidateServerCertificate>
    <UseServiceCredentials>true</UseServiceCredentials>
    <SupportsMailboxSynchCapability>true</SupportsMailboxSynchCapability>
    <ExchDoAutodiscover>false</ExchDoAutodiscover>
    <MailboxSynchFaxAction>1</MailboxSynchFaxAction>
    <MailboxSynchEmailAction>2</MailboxSynchEmailAction>

<ExternalServiceResetURI>/vmrest/externalservices/53a7675f-94c2-4596-ae3a-69b9287d119d/reset</ExternalServiceResetURI>

  </ExternalService>
  <ExternalService>
    <URI>/vmrest/externalservices/bc1dbc08-bfdb-46e8-acb4-12cb511ebb01</URI>
    <ObjectId>bc1dbc08-bfdb-46e8-acb4-12cb511ebb01</ObjectId>
    <AuthenticationMode>1</AuthenticationMode>
    <DisplayName>ofc_365</DisplayName>
    <IsEnabled>true</IsEnabled>
    <ServiceAlias>admin</ServiceAlias>
    <ServicePassword/>
    <ServerType>5</ServerType>
    <SupportsCalendarCapability>true</SupportsCalendarCapability>
    <SupportsTtsOfEmailCapability>true</SupportsTtsOfEmailCapability>
    <ValidateServerCertificate>false</ValidateServerCertificate>
    <UseServiceCredentials>true</UseServiceCredentials>
    <SupportsMailboxSynchCapability>true</SupportsMailboxSynchCapability>
    <ExchDoAutodiscover>true</ExchDoAutodiscover>
    <ExchOrgDomain>10.78.171.70</ExchOrgDomain>
    <ExchSite/>
    <MailboxSynchFaxAction>1</MailboxSynchFaxAction>
    <MailboxSynchEmailAction>2</MailboxSynchEmailAction>
    <ProxyServer/>

<ExternalServiceResetURI>/vmrest/externalservices/bc1dbc08-bfdb-46e8-acb4-12cb511ebb01/reset</ExternalServiceResetURI>

  </ExternalService>
  <ExternalService>
    <URI>/vmrest/externalservices/9d7f6b48-19fc-446a-8afe-6d454a0b3de1</URI>
    <ObjectId>9d7f6b48-19fc-446a-8afe-6d454a0b3de1</ObjectId>
    <DisplayName>meeting_place</DisplayName>
    <IsEnabled>true</IsEnabled>
    <Server>10.78.171.87</Server>
    <ServiceAlias>admin</ServiceAlias>
    <ServicePassword/>
    <ServerType>1</ServerType>
    <SupportsCalendarCapability>true</SupportsCalendarCapability>
    <SupportsMeetingCapability>true</SupportsMeetingCapability>
    <TransferExtensionDialString>12112</TransferExtensionDialString>
  </ExternalService>
</ExternalServices>
```

Example 2

The following is an example of another GET request that lists the Unified Messaging Service based on <externalservice-id>:

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

```
<ExternalService>
 <URI>/vmrest/externalservices/6f4f7023-e9e5-4cd0-bf55-e20a0be6fd78</URI>
 <ObjectId>6f4f7023-e9e5-4cd0-bf55-e20a0be6fd78</ObjectId>
 <TenantObjectId>fe6541fb-b42c-44f2-8404-ded14cbf7438</TenantObjectId>
 <AuthenticationMode>1</AuthenticationMode>
 <DisplayName>UMS_API</DisplayName>
 <IsEnabled>true</IsEnabled>
 <SecurityTransportType>1</SecurityTransportType>
 <Server>10.65.156.190</Server>
 <ServiceAlias>clientteam\administrator</ServiceAlias>
 <ServicePassword/>
 <ServerType>4</ServerType>
 <SupportsCalendarCapability>true</SupportsCalendarCapability>
 <SupportsTtsOfEmailCapability>true</SupportsTtsOfEmailCapability>
 <ValidateServerCertificate>false</ValidateServerCertificate>
 <UseServiceCredentials>true</UseServiceCredentials>
 <SupportsMailboxSynchCapability>true</SupportsMailboxSynchCapability>
 <ExchDoAutodiscover>false</ExchDoAutodiscover>
 <MailboxSynchFaxAction>1</MailboxSynchFaxAction>
 <MailboxSynchEmailAction>2</MailboxSynchEmailAction>
</ExternalService>
```

```
Response Code: 200
```

Listing Specific Tenant Related User Template External Services by System Administrator

In Cisco Unity Connection 10.5(2) and later, the system administrator can use TenantObjectID to list the specific tenant related user template external services using the following URI:

```
GET https://<connection-server>/vmrest/externalservices?query=(TenantObjectId is
<Tenant-ObjectId>)
```

To get the TenantObjectID, use the following URI:

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

Adding Unified Messaging Service

This section contains information on how to create External Services:

- Adding Exchange/BPOS-D External Service
- Adding Meeting Place External Service
- Adding Office 365 External Service

Adding Exchange/BPOS-D External Service

The following is an example of the POST request that adds the Exchange/BPOS-D Unified Messaging Service:

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

The request parameters will depend upon the information given by you.

```
<ExternalService>
 <DisplayName>UMS_API</DisplayName>
 <ServiceAlias> client-team\administrator</ServiceAlias>
 <ServicePassword>Ecsbulab12</ServicePassword>
 <ServerType>4</ServerType>
 <Server>10.65.156.190</Server>
 <AuthenticationMode>1</AuthenticationMode>
 <SecurityTransportType>1</SecurityTransportType>
</ExternalService>
```

```
Response Code: 201
```

The following are the list of mandatory parameters required to create a Unified Messaging Service:

- Display Name: The display name of the unified messaging service
- Service Alias: The alias of the unified messaging service
- Service Password: The password of the unified messaging service
- Server Type: The type of unified messaging service account (Exchange/BPOS-D: 4)
- Server: The IP address of the Exchange server
- Authentication Mode: The web-based Authentication Mode of the Unified Messaging Service: Basic (1), Digest (2), and NTLM (3)
- Exchange Server Type: The Exchange Server Type of the Unified Messaging Account: Exchange 2003 (0) and Exchange 2007/2010/2013 (1)
- Security Transport Type: The web-based protocol of the Unified Messaging Account: HTTP (0) and HTTPS (1)

Adding Meeting Place External Service

The following is an example of the POST request that adds the Meeting Place Unified Messaging Service:

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

The request parameters will depend upon the information given by you.

```
<ExternalService>
 <DisplayName>MeetingPlace</DisplayName>
 <ServiceAlias> admin</ServiceAlias>
 <ServicePassword>ecsbulab</ServicePassword>
 <ServerType>1</ServerType>
 <Server>10.76.175.167</Server>
 <TransferExtensionDialString>111111</TransferExtensionDialString>
</ExternalService>
```

```
Response Code: 201
```

Adding Office 365 External Service

Unity Connection 12.5(1) SU2 and later supports **OAuth2** web authentication mode for configuring Unified Messaging with Office 365 service. For using OAuth2 web authentication mode for configuring Unified Messaging, you must create and register an application on Microsoft Azure portal corresponding to the Unified Messaging Service. After registering the application, you will get the values of **Application (Client) ID**, **Directory ID** and **Client Secret** on Azure portal.

With Unity Connection 11.5(1) SU9 and later, two new fields, **AdAuthenticationEndpoint** and **ResourceURI** are introduced in this API. These fields are auto populated with default values which can be modified according to required Active Directory.

For more information on configuring Unified Messaging with OAuth2 authentication mode, see Task List for Configuring Unified Messaging section of "Configuring Unified Messaging" chapter in *Unified Messaging Guide for Cisco Unity Connection Release 12.x* guide available at https://www.cisco.com/c/en/us/td/docs/voice_ip_comm/connection/12x/unified_messaging/b_12xcucumgx.html.

The following is an example of the POST request that adds the Office 365 Unified Messaging Service:

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

The request parameters will depend upon the information given by you.

```xml
<ExternalService>
    <DisplayName>OFC_Service</DisplayName>
    <IsEnabled>true</IsEnabled>
    <ExchDoAutodiscover>true</ExchDoAutodiscover>
    <ExchOrgDomain>domain.com</ExchOrgDomain>
    <SupportsCalendarCapability>true</SupportsCalendarCapability>
    <ServiceAlias>admin</ServiceAlias>
    <SupportsCalendarCapability>true</SupportsCalendarCapability>
    <SupportsTtsOfEmailCapability>true</SupportsTtsOfEmailCapability>
    <SupportsMeetingCapability>false</SupportsMeetingCapability>
    <ValidateServerCertificate>false</ValidateServerCertificate>
    <UseServiceCredentials>true</UseServiceCredentials>
    <AuthenticationMode>4</AuthenticationMode>
    <ServicePassword>password123</ServicePassword>
    <ServerType>5</ServerType>
    <ClientId>d64ea56b-1d60-47c7-a26d-7bcbee3a09c3</ClientId>
    <ClientSecret> </ClientSecret>
    <DirectoryID>cafae64a-ffb2-4585-8c11-2d86aa8b3bf5</DirectoryID>
  <AdAuthenticationEndpoint>https://login.microsoftonline.com</AdAuthenticationEndpoint>

    <ResourceURI>https://outlook.office365.com</ResourceURI></ExternalService>
```

```
Response Code: 201
```

The following are the list of mandatory parameters required to create a Unified Messaging Service:

- Display Name: The display name of the unified messaging service
- Service Alias: The administrator account name of active directory
- Service Password: The administrator account password of active directory
- Server Type: The type of unified messaging service account. The value of Server Type for Office 365 is 5
- ExchOrgDomain: The domain name of hosted exchange server
- ExchDoAutodiscover: The Auto Discovery flag that should always be true for Office 365

Note AuthenticationMode: The web authentication mode for Unified Messaging. The possible authentication mode can be Basic (1), NTLM (3) and OAuth2 (4) for Office 365 service. By default, the Authentication Mode is set to Basic (1).

Note If you select OAuth2 authentication mode for Office 365 service, you must provide the values of DirectoryID, ClientId and ClientSecret from Azure portal.

Note *(Applicable to 12.5SU7 and later releases)* If you select OAuth2 authentication mode for Office 365 service, **Service Alias** and **Service Password** fields are not required in API request body for adding Unified Messaging Service.

Modifying Unified Messaging Service

The following is an example of the PUT request that modifies the Unified Messaging Service represented by <externalserviceObject-id>:

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

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

```
<ExternalService>
 <ServiceAlias> client-team\administrator</ServiceAlias>
 <ServicePassword>Ecsbulab13</ServicePassword>
 <ServerType>4</ServerType>
 <Server>10.65.156.190</Server>
 <AuthenticationMode>1</AuthenticationMode>
 <SecurityTransportType>1</SecurityTransportType>
</ExternalService>
```

```
<ExternalService>
 <ServiceAlias> client-team\administrator</ServiceAlias>
 <ServicePassword></ServicePassword>
 <ServerType>4</ServerType>
 <Server>10.65.156.190</Server>
 <AuthenticationMode>4</AuthenticationMode>
 <SecurityTransportType>1</SecurityTransportType>
 <ClientId>d64ea56b-1d60-47c7-a26d-7bcbee3a09c3</ClientId>
 <ClientSecret></ClientSecret>
 <DirectoryID>cafae64a-ffb2-4585-8c11-2d86aa8b3bf5</DirectoryID>
</ExternalService>
```

```
Successful Response Code: 204
```

✎

Note *(Applicable to 12.5SU7 and later releases)* If you select OAuth2 authentication mode for Office 365 service, **Service Alias** and **Service Password** fields are not relevant in modification of Unified Messaging Service.

Deleting Unified Messaging Service

The following is an example of the DELETE request that deletes a Unified Messaging Service as represented by < externalserviceobject-id >:

```
https://<connection_server>/vmrest/usertemplates/externalservices/<objectId >
```

The output for this request returns the successful response code.

```
Response Code: 204
```

Explanation of Data Fields

Field	Description
Display Name	The display name of the unified messaging service
Service Alias	The administrator account name of active directory
Service Password	The administrator account password of active directory
Server Type	The type of unified messaging service account. Possible values are: • 1: For Meeting Place • 4: For Exchange /BPOS-D • 5: For Office 365
Server	The IP address of the Exchange server
Authentication Mode	The web-based Authentication Mode of the Unified Messaging Service. Possible value are: • 1: For Basic • 2: For Digest • 3: For NTLM • 4: OAuth2 By default, the Authentication Mode is set to Basic (1)

Field	Description
Exchange Server Type	The Exchange Server Type of the Unified Messaging Account. Possible values are: • 0: Exchange 2003 • 1: Exchange 2007/2010/2013 and above
Security Transport Type	The web-based protocol of the Unified Messaging Account. Possible values are: • 0: For HTTP • 1: For HTTPS
TransferExtensionDialString	The digits that Cisco Unity Connection must dial to transfer users on the phone to the opening of the Cisco Unified Meeting Place Server
ExchOrgDomain	The domain name of hosted exchange server
ExchDoAutodiscover	The Auto Discovery flag that should always be true for Office 365
DirectoryID	*(Applicable only when OAuth2 authentication mode is selected)* Directory id of the application registered on Microsoft Azure portal
ClientID	*(Applicable only when OAuth2 authentication mode is selected)* Client id of the application registered on the Microsoft Azure portal
ClientSecret	*(Applicable only when OAuth2 authentication mode is selected)* The value of Client Secret of the application registered on the Microsoft Azure portal.
AD Authentication Endpoint	*(Applicable only when OAuth2 authentication mode is selected)* This field is optional . Its value depend on Active Directory chosen on Microsoft Azure Portal. For different values of AD Authentication Endpoint, refer Endpoints of the registered application at Azure portal. Default value of AD Authentication Endpoint field is https://login.microsoftonline.com
Resource URI	*(Applicable only when OAuth2 authentication mode is selected)*This field is optional . Its value depend on Active Directory chosen on Microsoft Azure Portal. Default value of Resource URI field is https://outlook.office365.com

Cisco Unity Connection Provisioning Interface (CUPI) API -- User Template External Service Accounts

About External Service Accounts

A user template may have zero or more unified messaging service accounts (also known as external service accounts). Examples of these services include Cisco Unified MeetingPlace 8.0, Exchange 2003, Exchange 2007, and Exchange 2010. Using CUPI for user templates, an administrator can:

- Retrieve a list of its unified messaging service accounts,
- Retrieve one of its unified messaging service accounts, and
- Change the password for one of its unified messaging service accounts

Listing External Service Accounts

To retrieve a list of unified messaging service accounts, use the GET method with URI:

```
https://<connection_server>/vmrest/usertemplates/usertemplateobject-id/templateexternalserviceaccounts
```

In the following example, the user has two unified messaging service accounts, Exchange2K3 and Exchange2K7:

```
GET
https://<connection-server>/vmrest/usertemplates/<usertemplateobject-id>/externalserviceaccounts
```

```
<TemplateExternalServiceAccounts total="1">
<TemplateExternalServiceAccount>

<URI>/vmrest/usertemplates/85a845d3-063d-4641-aa70-8b536282bffb/templateexternalserviceaccounts/c4e7b01f-8b6e-4a08-9d57-856e81919c66</URI>

 <EmailAddressUseCorp>false</EmailAddressUseCorp>
 <EnableCalendarCapability>true</EnableCalendarCapability>
 <EnableMailboxSynchCapability>true</EnableMailboxSynchCapability>
 <EnableMeetingCapability>false</EnableMeetingCapability>
 <EnableTtsOfEmailCapability>true</EnableTtsOfEmailCapability>
 <ExternalServiceObjectId>26f20913-af8d-465a-8437-707028d376bd</ExternalServiceObjectId>
 <IsPrimaryMeetingService>false</IsPrimaryMeetingService>
 <LoginType>0</LoginType>
 <ObjectId>c4e7b01f-8b6e-4a08-9d57-856e81919c66</ObjectId>
 <UserTemplateObjectId>85a845d3-063d-4641-aa70-8b536282bffb</UserTemplateObjectId>

<UserTemplateURI>/vmrest/usertemplates/85a845d3-063d-4641-aa70-8b536282bffb</UserTemplateURI>

 <DisplayName>UMS_AP1111I</DisplayName>
 <ServerType>4</ServerType>
 <UserTemplateDisplayName>Template</UserTemplateDisplayName>
</TemplateExternalServiceAccount>
</TemplateExternalServiceAccounts>
```

```
Response Code: 200
```

For each unified messaging service account, CUPI returns the following information:

- URI - The URI for retrieving the unified messaging service account
- IsEnabled - A flag to indicate whether the unified messaging service account is enabled
- UseServiceCredentials - A flag to indicate whether service credentials or user credentials are used to sign in the unified messaging service account
- LoginType - A flag to indicate whether the user alias (0), a guest account (1), or a specified user ID (2) is used to sign in the account
- UserId - The user ID to sign in to the unified messaging service account, if one is used
- ObjectId - The unique ID of the unified messaging service account
- Display Name - The display name of the unified messaging service account

To retrieve a specific unified messaging service account, use the GET method with the URI field from above as follows:

```
GET
http://<connection_server>/vmrest/usertemplates/<objectId>/templateexternalserviceaccounts/<objectId>
```

```xml
<?xml version="1.0" encoding="UTF-8"?>
<TemplateExternalServiceAccount>

<URI>/vmrest/usertemplates/85a845d3-063d-4641-aa70-8b536282bffb/templateexternalserviceaccounts/c4e7b01f-8b6e-4a08-9d57-856e81919c66</URI>

 <EmailAddressUseCorp>false</EmailAddressUseCorp>
 <EnableCalendarCapability>true</EnableCalendarCapability>
 <EnableMailboxSynchCapability>true</EnableMailboxSynchCapability>
 <EnableMeetingCapability>false</EnableMeetingCapability>
 <EnableTtsOfEmailCapability>true</EnableTtsOfEmailCapability>
 <ExternalServiceObjectId>26f20913-af8d-465a-8437-707028d376bd</ExternalServiceObjectId>
 <IsPrimaryMeetingService>false</IsPrimaryMeetingService>
 <LoginType>0</LoginType>
 <ObjectId>c4e7b01f-8b6e-4a08-9d57-856e81919c66</ObjectId>
 <UserTemplateObjectId>85a845d3-063d-4641-aa70-8b536282bffb</UserTemplateObjectId>

<UserTemplateURI>/vmrest/usertemplates/85a845d3-063d-4641-aa70-8b536282bffb</UserTemplateURI>

 <DisplayName>UMS_AP1111I</DisplayName>
 <ServerType>4</ServerType>
 <UserTemplateDisplayName>Template</UserTemplateDisplayName>
</TemplateExternalServiceAccount>
```

```
Response Code: 200
```

Adding New External Service Account

The following is an example of the POST request that adds a Unified Messaging Account:

```
https://<connection_server>/vmrest/usertemplates/<objectId>/templateexternalserviceaccounts/<objectId>
```

The actual response will depend upon the information given by you. The following are the mandatory parameters that you need to enter to create a Unified Messaging Account:

```
<TemplateExternalServiceAccount>
 <ExternalServiceObjectId>NewUnfiedServiceAccount </ExternalServiceObjectId>
 <EnableCalendarCapability>true</EnableCalendarCapability>
 <EnableTtsOfEmailCapability>true</EnableTtsOfEmailCapability>
 <EnableMailboxSynchCapability>true</EnableMailboxSynchCapability>
</TemplateExternalServiceAccount>
```

```
Response Code: 201
```

Modifying External Service Account

The following is an example of the PUT request that modifies a Unified Messaging Account as represented by <unifiedmessagingaccountid>:

```
https://<connection_server>/vmrest/usertemplates/<objectId>/ templateexternalserviceaccounts
 /<objectId>
```

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

```
<TemplateExternalServiceAccount>
 <EnableCalendarCapability>true</EnableCalendarCapability>
 <EnableTtsOfEmailCapability>true</EnableTtsOfEmailCapability>
 <EnableMailboxSynchCapability>true</EnableMailboxSynchCapability>
</TemplateExternalServiceAccount>
```

```
Response Code: 204
```

Deleting External Service Account

The following is an example of the DELETE request that deletes a Unified Messaging Account as represented by < externalserviceaccount-id >:

```
https://<connection_server>/vmrest/usertemplates/<template-object-id>/
templateexternalserviceaccounts /< objectId>
```

The output for this request returns the successful response code.

```
Response Code: 204
```

Explanation of Data Fields

The following chart lists all of the data fields available on External Service Accounts.

Field Name	Writable?	Available Value	Explanation/Comments
EmailAddressUseCorp	Read/Write	True/False	Use Corporate Email Address
EnableCalendarCapability	Read/Write	True/False	Enables users to hear notification of upcoming meetings on the phone.

Field Name	Writable?	Available Value	Explanation/Comments
EnableMailboxSynchCapability	Read/Write	True/False	Synchronizes voice messages in Connection and Exchange.
EnableMeetingCapability	Read Only	True/False	Enables Meeting Capability
EnableTtsOfEmailCapability	Read/Write	True/False	Enables users to access Exchange email messages by using text to speech.
ExternalServiceObjectId	Read Only	36 characters	Displays External Service ObjectId
IsPrimaryMeetingService read	Read Only	True/False	Displays Primary Meeting Service
LoginType	Read/Write	0-Login using user's Connection alias used for login 1- Login as guest 2-Login as UserId| Base, Phone, Pager	Dipslays the type of login done by the
ObjectId	All	Read Only	ObjectId of the Device
UserTemplateURI	Read Only		Displays user template URI
UserTemplateObjectId	Read Only	36 characters	Displays user template ObjectId
DisplayName	All	Read/Write	Friendly name for the Device like "Mobile Phone"
ServerType	Read Only	1-MeetingPlace 8.x,4-Exchange/BPOS-D,5-Office 365	Displays the name of the external service account
UserTemplateDisplayName	Read Only	1-64 characters	Display Name for User Template.

Cisco Unity Connection Provisioning Interface (CUPI) API -- End User Unified Messaging Accounts

Unified Messaging Account API

Updating the Unified Messaging Account

JSON Example

To view the unified messaging account, do the following:

```
Request URI:
PUT https://<connection-server>/vmrest/users/<userobjectid>/
externalserviceaccounts/<externalserviceaccountsobjectId>
Accept: application/json
Content-type: application/json
Connection: keep-alive
{
    "EmailAddressUseCorp":"true"
    "EnableCalendarCapability":"true"
    "EnableMailboxSynchCapability":"true"
      "EnablTtsOfEmailCapability":"true"
}
```

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
```

Explanation of Data Fields

Parameters	Operation	Data Type	Comments
URI	Read Only	String	URI of the Unified Messaging Account.
ObjectId	Read Only	String (36)	Unique Identifier of the Unified Messaging Account.
IsEnabled	Read Only	Boolean	A flag indicating whether the external service is enabled. • false: The external service is disabled. • true: The external service is enabled. Default value: false.
UseServiceCredentials	Read Only	Boolean	A flag indicating whether to use service credentials rather than user credentials to logon to the external service. • false: Use user credentials. • true: Use service credentials.
Login Type	Read Only	Integer	A flag to indicate whether the user alias (0), a guest account (1), or a specified user ID (2) is used to sign in the account .
Display Name	Read/Write	String (64)	The display name of the unified messaging service account.
UserId	Read Only	String	The user ID to sign in to the unified messaging service account, if one is used