Cisco Unity Connection Provisioning Interface (CUPI) API -- Subscriber Dependency

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Subscriber Dependency API

Administrator can use this API to list the objects that reference a specified user. Using this API administrator can also replace the dependencies with another user.

Listing Dependencies of All Users

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

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

```
<SubscriberDependencies total="2">
  <SubscriberDependency>
   <DependencyType>TT2</DependencyType>
   <DependentEntityObjectId>43205549-0127-48c9-9261-f84102a5890f</DependentEntityObjectId>
   <DependentEntityObjectType>3</DependentEntityObjectType>
   <DependentEntityOwner>Donald_UserTemplate_1 </DependentEntityOwner>
   <DependencyDestinationType>2</DependencyDestinationType>
   <SubscriberObjectId>10b494ca-56ff-4430-a49f-747a33abbd09</SubscriberObjectId>
   <UserURI>/vmrest/users/10b494ca-56ff-4430-a49f-747a33abbd09</UserURI>
   <DependentEntityOwnerType>User Template </DependentEntityOwnerType>
  </SubscriberDependency>
  <SubscriberDependency>
   <DependencyType>Recipient</DependencyType>
   <DependentEntityObjectId>beb9623b-60e4-439d-8fe3-b4c7eec42dfc</DependentEntityObjectId>
   <DependentEntityObjectType>3</DependentEntityObjectType>
   <DependentEntityOwner>Operator </DependentEntityOwner>
   <DependencyDestinationType>5</DependencyDestinationType>
   <SubscriberObjectId>cfbb6680-f028-4282-8740-ba7531e574cf</SubscriberObjectId>
   <UserURI>/vmrest/users/cfbb6680-f028-4282-8740-ba7531e574cf</UserURI>
   <DependentEntityOwnerType>Call Handler </DependentEntityOwnerType>
  </SubscriberDependency>
<SubscriberDependencies>

Response Code: 200
```

JSON Example

```
GET https://<connection-server>/vmrest/subscriberdependencies
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": "2",
  "SubscriberDependency":
[
  {
   "DependencyType": "TT2",
   "DependentEntityObjectId": "43205549-0127-48c9-9261-f84102a5890f",
   "DependentEntityObjectType": "3",
   "DependentEntityOwner": "Donald_UserTemplate_1",
   "DependencyDestinationType": "2",
   "SubscriberObjectId": "10b494ca-56ff-4430-a49f-747a33abbd09",
   "UserURI": "/vmrest/users/10b494ca-56ff-4430-a49f-747a33abbd09",
   "DependentEntityOwnerType": "User Template"
  },
  {
   "DependencyType": "Recipient",
   "DependentEntityObjectId": "beb9623b-60e4-439d-8fe3-b4c7eec42dfc",
   "DependentEntityObjectType": "3",
   "DependentEntityOwner": "Operator",
   "DependencyDestinationType": "5",
   "SubscriberObjectId": "cfbb6680-f028-4282-8740-ba7531e574cf",
   "UserURI": "/vmrest/users/cfbb6680-f028-4282-8740-ba7531e574cf",
   "DependentEntityOwnerType": "Call Handler"
  }
]
}
```

```
Response Code: 200
```

Viewing Dependency of a Specific User

```
GET https://<connection-server>/vmrest/subscriberdependencies/<subscriber-objectid>
```

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

```
<SubscriberDependencies total="1">
  <SubscriberDependency>
  <DependencyType>Standard Greeting</DependencyType>
  <DependentEntityObjectId>7ea0ecb6-4125-4866-a0f6-5308a5a4b3d1</DependentEntityObjectId>
  <DependentEntityObjectType>66</DependentEntityObjectType>
  <DependentEntityOwner>Texoma_SystemCallhandlerTemplate_1</DependentEntityOwner>
  <DependencyDestinationType>0</DependencyDestinationType>
  <SubscriberObjectId>4bc6f97a-0c97-4ed9-a7e2-05e611bb02d3</SubscriberObjectId>
  <UserURI>/vmrest/users/4bc6f97a-0c97-4ed9-a7e2-05e611bb02d3</UserURI>
  <DependentEntityOwnerType>Call Handler Template</DependentEntityOwnerType>
 </SubscriberDependency>
</SubscriberDependencies>
```

```
Response code: 200
```

JSON Example

```
GET https://<connection-server>/vmrest/subscriberdependencies/<subscriber-objectid>
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",
  "SubscriberDependency":
  {
  "DependencyType": "Standard Greeting",
  "DependentEntityObjectId": "7ea0ecb6-4125-4866-a0f6-5308a5a4b3d1",
  "DependentEntityObjectType": "66",
  "DependentEntityOwner": "Texoma_SystemCallhandlerTemplate_1",
  "DependencyDestinationType": "0",
  "SubscriberObjectId": "4bc6f97a-0c97-4ed9-a7e2-05e611bb02d3",
  "UserURI": "/vmrest/users/4bc6f97a-0c97-4ed9-a7e2-05e611bb02d3",
  "DependentEntityOwnerType": "Call Handler Template"
  }
}

Response Code: 200
```

Finding Dependencies

Example 1:

Suppose following is the dependent object of a particular user and it is required to find the complete dependency, then below are the steps that should be followed. Dependent Object:

```
<SubscriberDependency>
  <DependencyType>Standard Greeting</DependencyType>
  <DependentEntityObjectId>7ea0ecb6-4125-4866-a0f6-5308a5a4b3d1</DependentEntityObjectId>
  <DependentEntityObjectType>66</DependentEntityObjectType>
  <DependentEntityOwner>Texoma_SystemCallhandlerTemplate_1 </DependentEntityOwner>
  <DependencyDestinationType>0</DependencyDestinationType>
  <SubscriberObjectId>4bc6f97a-0c97-4ed9-a7e2-05e611bb02d3</SubscriberObjectId>
  <UserURI>/vmrest/users/4bc6f97a-0c97-4ed9-a7e2-05e611bb02d3</UserURI>
  <DependentEntityOwnerType>Call Handler Template</DependentEntityOwnerType>
</SubscriberDependency>
```

Steps to be followed:

- Check DependentEntityOwnerType and DependentEntityObjectId from the response, which depicts the type of object referencing the user. In the example, the referencing object entity is call handler template, whose name is 'Texoma_SystemCallhandlerTemplate_1' and object id is '7ea0ecb6-4125-4866-a0f6-5308a5a4b3d1'.
- Check DependencyType, which specifies type of dependency. In this example, it is Standard Greeting. For more information, see the Possible Value of DependencyType section.
- Check DependencyDestinationType, where user is actually referred. In the example, it is 0 that is After Greeting Action. For more information, see the Possible Values of DependencyDestinationType section.
- Therefore, user is referenced in the After Greeting action of Standard Greeting of callhandler template(Texoma_SystemCallhandlerTemplate_1)

Example 2:

Dependent Object:

```
<SubscriberDependency>
  <DependencyType>PCTRCaller</DependencyType>
  <DependentEntityObjectId>476dd400-4130-4795-9e15-c8ce3dd57ff3</DependentEntityObjectId>
  <DependentEntityObjectType>45</DependentEntityObjectType>
  <DependentEntityOwner>Donald_Operator_1</DependentEntityOwner>
  <DependencyDestinationType>4</DependencyDestinationType>
```

```
    <SubscriberObjectId>cfbb6680-f028-4282-8740-ba7531e574cf</SubscriberObjectId>
    <UserURI>/vmrest/users/cfbb6680-f028-4282-8740-ba7531e574cf</UserURI>
    <DependentEntityOwnerType>User</DependentEntityOwnerType>
</SubscriberDependency>
```

Steps to be followed:

- Check the DependentEntityOwnerType and DependentEntityObjectId from response, which depicts the type of object referencing the user. In the example, the referencing object entity is user whose name is 'Donald_Operator_1' and object id is '476dd400-4130-4795-9e15-c8ce3dd57ff3'. For more information, see the Possible Value of DependencyType section.
- Check DependencyType, which specifies type of dependency. In this example, the PCTRCaller is DependencyType.
- Check DependencyDestinationType, where user is actually referred. In the example, it is 4 that is refrenced by personal rule caller. For more information, see the Possible Values of DependencyDestinationType section.
- In above example specified user is referenced in the personal call transfer rule of user (Donald_Operator_1).

Moving Dependencies of One User to Another

Example 1:

Suppose following is the dependent object of a particular user and it is required to move dependencies to another user, then below are the steps that should be followed. Dependent Object:

```
<SubscriberDependency>
    <DependencyType>Standard Greeting</DependencyType>
    <DependentEntityObjectId>7ea0ecb6-4125-4866-a0f6-5308a5a4b3d1</DependentEntityObjectId>
    <DependentEntityObjectType>66</DependentEntityObjectType>
    <DependentEntityOwner>Texoma_SystemCallhandlerTemplate_1 </DependentEntityOwner>
    <DependencyDestinationType>0</DependencyDestinationType>
    <SubscriberObjectId>4bc6f97a-0c97-4ed9-a7e2-05e611bb02d3</SubscriberObjectId>
    <UserURI>/vmrest/users/4bc6f97a-0c97-4ed9-a7e2-05e611bb02d3</UserURI>
    <DependentEntityOwnerType>Call Handler Template</DependentEntityOwnerType>
</SubscriberDependency>
```

Steps to be followed:

- Check the DependentEntityOwnerType and DependentEntityObjectId from response. In this example, DependentEntityOwnerType is Call Handler Template, and DependentEntityObjectId is 7ea0ecb6-4125-4866-a0f6-5308a5a4b3d1.
- Perform GET Operation on Dependent Object with DependentEntityObjectId as Object ID of dependent object entity. In this example use URI:

  ```
  https://<connection-server>/vmrest/callhandlertemplates/<DependentEntityObjectId>
  ```

- Check DependencyType, which specifies type of dependency. In this example it is Greeting (Standard), therefore, use GET on

  ```
  https://<connection-server>/vmrest/callhandlertemplates/<DependentEntityObjectId>/templategreetings/Standard
  ```

- Check DependencyDestinationType.In this example it is 0 that is After Greeting therefore, perform PUT operation to move the dependency to new user.

  ```
  PUT
  https://<connection-server>/vmrest/callhandlertemplates/<DependentEntityObjectId>/templategreetings/Standard
  ```

```
<TemplateGreeting>
  <AfterGreetingAction>2</AfterGreetingAction>
  <AfterGreetingTargetConversation>PHGreeting</AfterGreetingTargetConversation>

<AfterGreetingTargetHandlerObjectId>9b121ddf-8ce4-4bbd-b179-ab75ab63eb15</AfterGreetingTargetHandlerObjectId>
</TemplateGreeting>
```

Where, AfterGreetingTargetHandlerObjectId is the call handler of new user. In above example After Greeting action of Standard Greeting of call handler template is now referencing callhandler of new user.

Explanation of Data Fields

Parameter	Operations	Data Type	Comments
UserURI	Read Only	String	URI of referenced User
DependencyType	Read Only	String(24)	Type of dependency (e.g., After Greeting, After Message, Routing Rule, etc.). Possible values are specified in the table given under the Possible Value of DependencyType section.
DependentEntityObjectId	Read Only	String(32)	The unique identifier of the entity that is dependent on the user.
DependentEntityObjectType	Read Only	Integer	The type of object that is dependent on the user. Possible values are specified in the table given under the Possible Values of DependentEntityObjectType section.
DependentEntityOwner	Read Only	String(36)	The unique identifier of the entity that owns the object which is dependent on the user. For example, a user's call handler may be the dependent entity, but the call handler is owned by another user.
DependencyDestinationType	Read Only	Integer	Possible values are specified in the table given under the Possible Values of DependencyDestinationType section.
SubscriberObjectId	Read Only	String(36)	Unique Object Id of referenced User
DependentEntityOwnerType	Read Only	String(24)	The entity owner type of object (e.g., User, Call Handler Template)

Possible Value of Dependency Type

Name	Value	Description	DisplayName
NotificationRuleCaller	NotificationRuleCaller	Reference from notification rule caller	Notification
GreetingOffHours	GreetingOffHours	Reference from closed greeting	Closed Greeting
GreetingInternal	GreetingInternal	Reference from internal greeting	Internal Greeting
GreetingError	GreetingError	Reference from error greeting	Error Greeting
GreetingHoliday	GreetingHoliday	Reference from holiday greeting	Holiday Greeting

Possible Value of Dependency Type

Name	Value	Description	DisplayName
GreetingAlternate	GreetingAlternate	Reference from alternate greeting	Alternate Greeting
GreetingBusy	GreetingBusy	Reference from busy greeting	Busy Greeting
GreetingStandard	GreetingStandard	Reference from standard greeting	Standard Greeting
UserExit	UserExit	Reference from user's call handler's exit action	Exit Action
PCTRCaller	PCTRCaller	Reference from personal rule caller	PCTR Caller
SMPPProvider	SMPP	Reference from SMPP Provider SMPP Provider	SMPP Provider
TT_Pound	TT#	Reference from call handler's TT# menu entry	#
TT_Star	TT*	Reference from call handler's TT* menu entry	*
TT_0	TT0	Reference from call handler's TT0 menu entry	0
TT_1	TT1	Reference from call handler's TT1 menu entry	1
TT_2	TT2	Reference from call handler's TT2 menu entry	2
TT_3	TT3	Reference from call handler's TT3 menu entry	3
TT_4	TT4	Reference from call handler's TT4 menu entry	4
TT_5	TT5	Reference from call handler's TT5 menu entry	5
TT_6	TT6	Reference from call handler's TT6 menu entry	6
TT_7	TT7	Reference from call handler's TT7 menu entry	7
TT_8	TT8	Reference from call handler's TT8 menu entry	8
TT_9	TT9	Reference from call handler's TT9 menu entry	9
AfterGreeting	After Greeting	Reference from call handler's "AfterGreeting" action	After Greeting
AfterMessage	AfterMessage	Reference from call handler's "AfterMessage" action	AfterMessage
Exit	Exit	Reference from call handler's "Exit" action	Exit
NoInput	NoInput	Reference from call handler's "NoInput" action	NoInput
NoSelection	NoSelection	Reference from call handler's "NoSelection" action	AfterMessage
Zero	Zero	Reference from call handler's "Zero" action	Zero
RoutingRule	RoutingRule	Reference from a routing rule's "Action".	RoutingRule

Possible Values of DependentEntityObjectType

Name	Value	Description
CallHandler	3	CallHandler
DirectoryHandler	6	Directory Handler used to search a subset of the directory. Formerly referred to as "NameLookupHandler."
GreetingRule	66	Defines the greeting to play and the action to take for a call handler
InterviewHandler	5	Special case handler that asks the caller up to 20 questions
PersonalRuleCaller	45	A caller that drives a personal rule.
MenuEntry	67	Touch-tone menu entry for a call handler
NotificationRule	72	Specifies when and which notification device is used for notification of a new message.
Subscriber	21	User that has a subscription to a voice mail service and as such also is assigned at least one mailbox.
UserTemplate	10	Template for creating a new user.
RoutingRule	103	System call routing rule.
GlobalUser	104	Global user account type.
SMPPProvider	53	A provider of Short Message Peer-To-Peer services
CallHandlerTemplate	135	Template for creating new call handlers
NotificationRuleCaller	152	User triggering a notification rule

Possible Values of DependencyDestinationType

Name	Value	Description
AfterGreeting	0	The user is an After Greeting destination
AfterMessage	1	The user is an After Message destination
CallerInputKey	2	The user is a destination of a caller input key
DirectoryHandlerCallerInputKey	3	The user is a destination of a directory handler
PCTR	4	The user is referenced by a personal rule caller

Possible Values of DependencyDestinationType