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Introduction

In order to assign a schedule to a call handler, such as the Opening Greeting Call Handler, an administrator should first create a ScheduleSet and its supporting objects, and then change the Call Handler to point to that new ScheduleSet.

Creating a Schedule

Schedules are relatively complicated objects in Cisco Unity Connection. They are comprised of 4 different types of objects, and the top level object is called a ScheduleSet. For a more detailed explanation of how the schedules work in Unity Connection, check [Schedules Overview](#)

When a schedule has been created, the administrator will need the ScheduleSet's ObjectId in order to associate it with a call handler.

Associating a ScheduleSet with a Call Handler

Retrieving the List of Call Handlers

In order to retrieve the list of call handlers, an administrator makes a GET request to the call handler resource:

```
GET /vmrest/handlers/callhandlers
```

This will return a list of all call handlers on the system. A portion of that list is shown here:

```
200  
OK
```

Cisco_Unity_Connection_Provisioning_Interface_(CUPI)_API_--_Assigning_a_Schedule_to_a_Call_Handler

```
<?xml version="1.0" encoding="UTF-8"?>
<Callhandlers total="5">
  <Callhandler>
    <URI>/vmrest/handlers/callhandlers/03991ce8-0eaa-40cc-86a9-c0c88d9066ad</URI>
    <CreationTime>2010-05-25T18:38:51Z</CreationTime>
    <Language>1033</Language>
    <Undeletable>true</Undeletable>
    <VoiceName>0164efab-5c35-42bd-8284-018746edc64b.wav</VoiceName>
    <VoiceFileURI>/vmrest/voicefiles/0164efab-5c35-42bd-8284-018746edc64b.wav</VoiceFileURI>
    <LocationObjectId>6919b242-ed60-4f3a-95fa-40967171485e</LocationObjectId>
    <LocationURI>/vmrest/locations/connectionlocations/6919b242-ed60-4f3a-95fa-40967171485e</LocationURI>
    <EditMsg>true</EditMsg>
    <IsPrimary>false</IsPrimary>
    <OneKeyDelay>1500</OneKeyDelay>
    <ScheduleSetObjectId>a7e21c61-296d-46f1-9860-50966bbfbb8e</ScheduleSetObjectId>
    <ScheduleSetURI>/vmrest/schedulesets/a7e21c61-296d-46f1-9860-50966bbfbb8e</ScheduleSetURI>
    <SendUrgentMsg>0</SendUrgentMsg>
    <MaxMsgLen>300</MaxMsgLen>
    <IsTemplate>false</IsTemplate>
    <ObjectId>03991ce8-0eaa-40cc-86a9-c0c88d9066ad</ObjectId>
    <RecipientDistributionListObjectId>7082dace-606c-4f2c-8af1-764d149e4500</RecipientDistributionListObjectId>
    <RecipientDistributionListURI>/vmrest/distributionlists/7082dace-606c-4f2c-8af1-764d149e4500</RecipientDistributionListURI>
    <DisplayName>Opening Greeting</DisplayName>
    <AfterMessageAction>2</AfterMessageAction>
    <AfterMessageTargetConversation>PHGreeting</AfterMessageTargetConversation>
    <AfterMessageTargetHandlerObjectId>3910fd6b-8d56-4b83-89a6-d5c825d69916</AfterMessageTargetHandlerObjectId>
    <TimeZone>4</TimeZone>
    <UseDefaultLanguage>true</UseDefaultLanguage>
    <UseDefaultTimeZone>true</UseDefaultTimeZone>
    <MediaSwitchObjectId>2d4be643-a206-4705-92a9-261d191f2df4</MediaSwitchObjectId>
    <PhoneSystemURI>/vmrest/phonesystems/2d4be643-a206-4705-92a9-261d191f2df4</PhoneSystemURI>
    <UseCallLanguage>true</UseCallLanguage>
    <SendSecureMsg>false</SendSecureMsg>
    <EnablePrependDigits>false</EnablePrependDigits>
    <DispatchDelivery>false</DispatchDelivery>
    <CallSearchSpaceObjectId>44228e57-f458-4d56-809a-8d33fbdec56</CallSearchSpaceObjectId>
    <CallSearchSpaceURI>/vmrest/searchspaces/44228e57-f458-4d56-809a-8d33fbdec56</CallSearchSpaceURI>
    <InheritSearchSpaceFromCall>true</InheritSearchSpaceFromCall>
    <PartitionObjectId>5d61a103-87a8-41c6-ba0b-90e1c72eda7c</PartitionObjectId>
    <PartitionURI>/vmrest/partitions/5d61a103-87a8-41c6-ba0b-90e1c72eda7c</PartitionURI>
    <GreetingsURI>/vmrest/handlers/callhandlers/03991ce8-0eaa-40cc-86a9-c0c88d9066ad/greetings</GreetingsURI>
    <TransferOptionsURI>/vmrest/handlers/callhandlers/03991ce8-0eaa-40cc-86a9-c0c88d9066ad/transferoptions</TransferOptionsURI>
    <MenuEntriesURI>/vmrest/handlers/callhandlers/03991ce8-0eaa-40cc-86a9-c0c88d9066ad/menueentries</MenuEntriesURI>
  </Callhandler>
  <Callhandler>
    ...
  </Callhandler>
  ...
</Callhandlers>
```

Selecting the Call Handler

From the list of call handlers obtained by doing the previous step, the administrator should choose one, usually based on `DisplayName`. In program code, this can be done by loading the returned XML document into an XML parser, and then finding the node with the requested `DisplayName`.

In this example, let's choose the Opening Greeting Call Handler, meaning the call handler with the `DisplayName` "Opening Greeting." The URI field tells the administrator which URI to use in order to retrieve, modify, or delete the call handler. In this example, the URI is `/vmrest/handlers/callhandlers/03991ce8-0eaa-40cc-86a9-c0c88d9066ad`.

Modifying the Call Handler

In order to change the schedule associated with a call handler, the administrator makes a PUT to the call handler resource, requesting a modification to the ScheduleSetObjectId field. Let's say that 9dd6c1d5-249e-4715-8953-396ce2f26314 is the ObjectId for the ScheduleSet that the administrator created earlier.

```
PUT /vmrest/handlers/callhandlers/03991ce8-0eaa-40cc-86a9-c0c88d9066ad
```

```
<Callhandler>  
  <ScheduleSetObjectId>9dd6c1d5-249e-4715-8953-396ce2f26314</ScheduleSetObjectId>  
</Callhandler>
```

At this point, the call handler will now be active during the time periods described by the ScheduleSet.

Finding Which Schedule Is Assigned to a Call Handler

In order to find out which schedule is currently assigned to a call handler, an administrator makes a GET request to the call handler resource, as described earlier. After selecting a call handler from the list, the ScheduleSetURI field provides a link to the ScheduleSet that is associated with the call handler. The administrator can then make a GET request to that URI to retrieve the ScheduleSet:

```
GET /vmrest/schedulesets/9dd6c1d5-249e-4715-8953-396ce2f26314
```

That will return the ScheduleSet. From that ScheduleSet object, the administrator can retrieve the ScheduleSetMembers, Schedules, and ScheduleDetails that comprise the entire Schedule.