Cisco Unity Connection Provisioning Interface (CUPI) API--Message Aging Policy APIs

Cisco Unity Connection Provisioning Interface (CUPI) API -- Mailbox Store API

Mailbox Stores Configuration

Administrator can use this APIs for creating, reading, modifying and deleting mailbox stores for listing,viewing, creation, selection, and deletion. During installation, Cisco Unity Connection automatically creates:

- A mailbox store database for information on voice messages (who each message was sent to,when it was sent, the location of the WAV file on the hard disk, and so on).
- An operating-system directory for voice message WAV files.
- An administrator with the required permissions can create up to four additional mailbox stores. Each additional mailbox store includes:
- Another mailbox-store database for information on voice messages that are saved in that mailbox store. The database is pre-sized for an average of approximately 40 messages each for 10,000 users, or about 1.25 GB. (The database application currently being used for Connection cannot dynamically resize a database after it is created.)
- Another operating-system directory for the voice message WAV files and other message attachments.

Listing the Mailbox Stores

The following is an example of the GET request that lists all the mailbox stores:

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

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

```
<MailboxStores total="1">
  <MailboxStore>
     <URI>/vmrest/mailboxstores/fd3ad7cd-805d-4727-82dd-c05dae4261c0</URI>
     <MailDatabase>UnityMbxDb1</MailDatabase>
     <Server>ucbu-aricent-vm256.cisco.com</Server>
     <ObjectId>fd3ad7cd-805d-4727-82dd-c05dae4261c0</ObjectId>
     <Mounted>true</Mounted>
     <RequiredSecurity>0</RequiredSecurity>
     <MailboxStoreType>0</MailboxStoreType>
     <DisplayName>Unity Messaging Database -1</DisplayName>
     <DbInstance>ciscounity</DbInstance>
     <Status>0</Status>
     <Undeletable>true</Undeletable>
     <LastError>0</LastError>
     <MaxSizeMB>15000</MaxSizeMB>
     <TotalSizeOfMailbox>0.0 Kilobytes</TotalSizeOfMailbox>
     <TimeAtWhichSizeCalculated>2013-04-10 22:59:23.323</TimeAtWhichSizeCalculated>
     <MailboxURI>/vmrest/mailboxstores/fd3ad7cd-805d-4727-82ddc05dae4261c0/
     mailboxes</MailboxURI>
  </MailboxStore>
</MailboxStores>
```

```
Response Code: 200
```

JSON Example

To list all mailboxstores(GET), do the following:

```
Request URI:
GET https://<connection-server>/vmrest/mailboxstores
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",
  "MailboxStore": {
     "URI": "/vmrest/mailboxstores/2668cf73-c234-4fb4-82e1-8b7299485b3c",
     "MailDatabase": "UnityMbxDb1",
     "Server": "ucbu-aricent-vm506.cisco.com",
     "ObjectId": "2668cf73-c234-4fb4-82e1-8b7299485b3c",
     "Mounted": "true",
     "RequiredSecurity": "0",
     "MailboxStoreType": "0",
     "DisplayName": "Unity Messaging Database -1",
     "DbInstance": "ciscounity",
     "Status": "0",
     "Undeletable": "true",
     "LastError": "0",
     "MaxSizeMB": "15000",
     "TotalSizeOfMailbox": "0.0 Kilobytes",
     "TimeAtWhichSizeCalculated":"2013-04-10 22:59:23.323",
     "MailboxURI": "/vmrest/mailboxstores/2668cf73-c234-4fb4-82e1-
     8b7299485b3c/mailboxes"
     }
  }
```

```
Response Code: 200
```

Viewing the Specific Mailbox Stores

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

```
GET https://<connection-server>/vmrest/mailboxstores /<mailboxstore-objectid>
```

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

```
<MailboxStore>
     <URI>/vmrest/mailboxstores/fd3ad7cd-805d-4727-82dd-c05dae4261c0</URI>
     <MailDatabase>UnityMbxDb1</MailDatabase>
     <Server>ucbu-aricent-vm256.cisco.com</Server>
     <ObjectId>fd3ad7cd-805d-4727-82dd-c05dae4261c0</ObjectId>
     <Mounted>true</Mounted>
     <RequiredSecurity>0</RequiredSecurity>
     <MailboxStoreType>0</MailboxStoreType>
     <DisplayName>Unity Messaging Database -1</DisplayName>
     <DbInstance>ciscounity</DbInstance>
     <Status>0</Status>
     <Undeletable>true</Undeletable>
     <LastError>0</LastError>
     <MaxSizeMB>15000</MaxSizeMB>
     <TotalSizeOfMailbox>0.0 Kilobytes</TotalSizeOfMailbox>
     <TimeAtWhichSizeCalculated>2013-04-10 22:59:23.323</TimeAtWhichSizeCalculated>
     <MailboxURI>/vmrest/mailboxstores/fd3ad7cd-805d-4727-82ddc05dae4261c0/
     mailboxes</MailboxURI>
  </MailboxStore>
```

```
Response Code: 200
```

JSON Example

To view individual mailbox store (GET), do the following:

```
Request URI:
GET https://<connection-server>/vmrest/mailboxstores/<mailboxstore-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:

```
{
     "URI": "/vmrest/mailboxstores/2668cf73-c234-4fb4-82e1-8b7299485b3c",
     "MailDatabase": "UnityMbxDb1",
     "Server": "ucbu-aricent-vm506.cisco.com",
     "ObjectId": "2668cf73-c234-4fb4-82e1-8b7299485b3c",
     "Mounted": "true",
     "RequiredSecurity": "0",
     "MailboxStoreType": "0",
     "DisplayName": "Unity Messaging Database -1",
     "DbInstance": "ciscounity",
     "Status": "0",
     "Undeletable": "true",
     "LastError": "0",
     "MaxSizeMB": "15000",
     "TotalSizeOfMailbox": "0.0 Kilobytes",
     "TimeAtWhichSizeCalculated":"2013-04-10 22:59:23.323",
     "MailboxURI": "/vmrest/mailboxstores/2668cf73-c234-4fb4-82e1-8b7299485b3c/mailboxes"
}
```

```
Response Code: 200
```

Viewing the Number of Mailboxes in a Mailbox Store

The following is an example of the GET request that lists the number of mailboxes in a mailbox store represented by the provided value of mailbox store object ID:

```
GET https://<connection-server>/vmrest/mailboxstores/<mailboxstore-objectid>/mailboxes
```

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

```
Response Code: 200
<Mailboxes total="3"/>
```

JSON Example

To view the number of mailboxes in a mailbox store, do the following:

```
Request URI
GET https://<connection-server>/vmrest/mailboxstores/<mailboxstore-objectid>/mailboxes
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": "3"
}
```

```
Response Code: 200
```

Creating the Mailbox Store

The parameters that can be given as part of the POST Request Body are : DisplayName, MaxSizeMB,Mounted, Undeletable. Even If the other values such as "server" are mentioned as part of the request body , the values will not be used while creation and default values will be used. The following is an example of the POST request that creates a mailbox store:

```
POST https://<connection-server>/vmrest/mailboxstores
  Request Body:
  <MailboxStore>
     <DisplayName>Unity Messaging Database</DisplayName>
     <MaxSizeMB>15000</MaxSizeMB>
  </MailboxStore>
```

The following is the example of the response from the above *POST* request:

```
Response Code: 201
/vmrest/voicemailboxstores /2668cf73-c234-4fb4-82e1-8b7299485b3ce
```

JSON Example

To create a new mailbox store, do the following:

```
Request URI:
POST https://<connection-server>/vmrest/mailboxstores
Accept: application/json
Content-Type: application/json
Connection: keep-alive
Request Body:
{
     "DisplayName":"Unity Messaging Database",
     "MaxSizeMB":"15000"
}
```

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
/vmrest/voicemailboxstores /2668cf73-c234-4fb4-82e1-8b7299485b3ce
```

Updating the Mailbox Stores

The following is an example of the PUT request that allows you to update the content of the mailbox store:

```
PUT https://<connection-server>/vmrest/mailboxstores/<mailboxstore-objectid>
Request Body:
  <MailboxStore>
     <Mounted>false</Mounted>
  </MailboxStore>
</pre
<pre>
Response Body: 204
```

The output for this request returns the successful response code.

JSON Example

To update mounted field of mailbox store, do the following:

```
Request URI:
PUT https://<connection-server>/vmrest/mailboxstores/<mailboxstore-objectid>
Accept: application/json
Content-Type: application/json
Connection: keep-alive
Request Body:
{
     "Mounted":"false"
}
```

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
```

Deleting the Mailbox Store

The following is an example of the DELETE request that deletes a specific mailbox store where you need to mention the mailbox store object ID:

```
DELETE https://<connection-server>/vmrest/mailboxstores/<mailboxstore-objectid
```

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

```
Response Code: 204
```

The output for this request returns the successful response code.

JSON Example

To delete mailbox store, do the following:

```
DELETE https://<connection-server>/vmrest/mailboxstores/<mailboxstore-objectid>
Accept: application/json
Connection: keep-alive
```

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

```
Response Code: 204
```

Explanation of Data Fields

The following chart lists all of the data fields:

Parameter	Data Type	Operations	Description
URI	String	Read Only	The URI of the mailbox store.
MailDatabase	String (512)	Read Only	The name of the mailbox database,such as "UnityMbxDb1". For external IMAP mailstores this value will be NULL.
Server	String (256)	Read Only	The name of the server on which the mailbox store resides.
ObjectId	String (36)	Read Only	A globally unique, system-generated identifier for a MailboxStore object.
Mounted	Boolean	Read/Write	A flag indicating whether the mailbox store is mounted. You should check this setting before accessing the mailbox store database. Tools can set it to denote that a mailbox store is offline when offline database maintenance needs to be performed. Default Value: true
RequiredSecurity	String	Read Only	The method of encryption that Cisco Unity Connection will use on a mailbox store connection. Possible values are: • 0: No encryption. • 1: TLS level encryption. • 2: SSL encryption. • 3: IPSec encryption. Default Value: 0

Parameter	Data Type	Operations	Description
MailboxStoreType	String	Read Only	The type of mailbox store (e.g.,UMSS). Possible values are: • 0: UMSS - Cisco Unity Connection message store solution. • 1: IMAP • 2: POP3 • 3: WebDAV • 4: MPE_WS Used by the Common Calendaring Library to retrieve calendaring and meeting information from the Meeting Place Express web service. Default Value: 0
DisplayName	String (64)	Read/Write	A descriptive name for the message Store.
DbInstance	String (256)	Read Only	The name of the dbinstance on which the mailbox store resides. Default Value: ciscounity Status Read Only String Current status of the mailbox store. Possible values are: • 0: OK • 1: Moving • 2: MoveFailed • 3: MoveRequested
Undeletable	Boolean	Read/Write	A flag indicating whether this mailbox store can be deleted. It is used to prevent deletion of factory defaults. Default Value: true

Parameter	Data Type	Operations	Description
LastError	String	Read Only	Last error result from a mailbox store maintenance action, that is create or delete. Possible values are: • 0: OK • 1: UnknownError • 2: DuplicateDisplayName • 3: InternalNameError • 4: DatabaseError • 5: InsufficientDiskSpace • 6: MailstoreNotEmpty • 7: MailstoreStillReferenced:This error is returned when deleting an mbx database is still referenced by another object (user template,etc). • 8: MailstoreOverMaxSize • 9: MailstoreNotFound • 10: MailstoreUndeletable • 11: RemoteServerOffline • 12: MailstoreNotMounted • 13: InvalidRequest • 14: MailboxNotMounted • 15: MustRunOnPublisher Default Value: 0
MaxSizeMB	Integer	Read/Write	This is the max size in MB for the mailbox store. The range can vary from 1 to 2147483647. Default Value: 15000
TotalSizeOfMailbox	String	Read Only	Total Size of the voicemail messages and the mailbox attachments in the mailbox store.
TimeAtWhichSizeCalculated	String	Read Only	Time at which the total size of mailbox store was calculated.
MailboxesURI	String	Read Only	The URI of the mailboxes.

Cisco Unity Connection Provisioning Interface (CUPI) API -- Mailbox Quota alert

Mailbox Quota Alert

These APIs are capable of retrieving and updating the email notification Mailbox Quota Alert text from CUC.

Acceptance criteria :

- GET API to view the "header" and body of the quota alert text in specified language.
- API to set the "header" and body of the quota alert text for specified language.

GET : https:// <connection-server>/vmrest/mailboxquotatexts

This API can be used by Administrator to fetch the list of Mailbox Quota alerts that will be used as email notification alert texts for end user. Currently, there is only one Mailbox Quota Alert which is Warning Quota, that can be configured in different languages. Output of this API will be:

```
<MailboxQuotaTexts total="1">

                <MailboxQuotaText>


<URI>/vmrest/mailboxquotatexts/da9d6130-baf7-4b8b-8aa5-1d973567d0b6</URI>

                        <ObjectId>da9d6130-baf7-4b8b-8aa5-d973567d0b6</ObjectId>

                        <Body/>

                       <DefaultBody>Your mailbox has exceeded the quota warning threshold
 specified by your administrator.
\n\nCurrent Usage: %CURRENTUSAGE%\nQuota Warning Threshold: %THRESHOLD%\nQuota Size Limit:
 %LIMIT%\n\
nPlease reduce your mailbox size by deleting few items from your mailbox.</DefaultBody>

                        <DefaultSubject>Voicemail Mailbox Quota Warning</DefaultSubject>

                        <LanguageCode>1033</LanguageCode>

                        <Subject/>

                        <UseDefault>true</UseDefault>

                      <RuleDescription>Text for Mailbox Warning Quota</RuleDescription>

              </MailboxQuotaText>

</MailboxQuotaTexts>
```

GET :https:// <connection-server>/vmrest/mailboxquotatexts/<mailboxQuotaTextObjectId>

This API can be used by Administrator to fetch the details of a particular Mailbox Quota Alert.

Output of this API will be:

```
<MailboxQuotaText>

          <URI>/vmrest/mailboxquotatexts/da9d6130-baf7-4b8b-8aa5-1d973567d0b6</URI>

          <ObjectId>da9d6130-baf7-4b8b-8aa5-1d973567d0b6</ObjectId>

          <Body/>

          <DefaultBody>Your mailbox has exceeded the quota warning threshold specified by
 your administrator.\n\nCurrent Usage: %CURRENTUSAGE%\nQuota
Warning Threshold: %THRESHOLD%\nQuota Size Limit: %LIMIT%\n\nPlease reduce your mailbox
size by deleting few items
from your mailbox.</DefaultBody>

          <DefaultSubject>Voicemail Mailbox Quota Warning</DefaultSubject>

          <LanguageCode>1033</LanguageCode>

          <Subject/>

          <UseDefault>true</UseDefault>

          <RuleDescription>Text for Mailbox Warning Quota</RuleDescription>

</MailboxQuotaText>
```

PUT : https:// <connection-server>/vmrest/mailboxquotatexts/<mailboxQuotaTextObjectId>

This API can be used by an administrator to modify the subject line, body and Use Default flag for the email notification alert for the end users. If an administrator updates "UseDefault" option to false and if "Subject" and "Body" (customized subject and body texts) of the Alert are null in the database or in input XML, then it is mandatory to provide both of them. Input will be an XML with following data :

```
<MailboxQuotaText>

           <Body>changed body content</Body>

           <Subject>Changed subject line</Subject>

           <UseDefault>false</UseDefault>

</MailboxQuotaText>
```

```
Output: HTTP response code : 204
```

Explanation of Data Fields

The following chart lists all of the data fields:

Parameter	Data Type	Operations	Description
URI	String	Read Only	URI of Mailbox Quota alert
ObjectId	Char (36)	Read Only	Acts as a primary key for the API. The ObjectID is a unique system-generated identifier for a Mailbox Quota Alert object.
Body	String	Read/Write	Customized body text for Mailbox Quota Alert.

Parameter	Data Type	Operations	Description
DefaultBody	String	Read Only	Default body text for the Mailbox Quota Alert
DefaultSubject	String	Read Only	Default subject line for Mailbox Quota Alert
LanguageCode	Integer	Read/Write	Specified the language code in which the alert will be displayed
Subject	String	Read/Write	Customized subject line for Mailbox Quota Alert
UseDefault	Boolean	Read/Write	Specify that whether DefaultSubject and DefaultBody is used or not. Values can be: • false -0 • true -1
RuleDescription	String	Read Only	Specified the type of Mailbox Quota Alert

Cisco Unity Connection Provisioning Interface (CUPI) API -- Message Aging Policy

Message Aging Policy

In Cisco Unity Connection, the Message Aging Policies ensures that the hard disk where voice messages are stored does not get filled up. Each policy allows you to specify message aging rules to automatically:

- Move new messages to the Saved Items folder after a specified number of days.
- Move read messages to the Deleted Items folder after a specified number of days.
- Permanently delete messages in the Deleted Items folder after a specified number of days. In the Default System Policy message aging policy, this is the only rule that is enabled.
- Based on the age of the messages, permanently delete secure messages that have been touched in any way (for example by saving, deleting, or opening but then saving messages as new).
- Based on the age of the messages, permanently delete all secure messages regardless of whether users have listened to or touched the messages in any way.

Note There are total numbers of 2 Default Message Aging Policies:

- Default System Policy
- Do Not Age Messages

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

Listing the Message Aging Policies

The following is an example of the GET request that lists all the message aging policies:

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

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

```
<MessageAgingPolicies total="2">
  <MessageAgingPolicy>
    <URI>/vmrest/messageagingpolicies/0f02be4e-5d70-4a1d-b182-ce14ede90ac0</URI>
    <ObjectId>0f02be4e-5d70-4a1d-b182-ce14ede90ac0</ObjectId>
    <Enabled>true</Enabled>
    <DisplayName>Default System Policy</DisplayName>
    <MessageAgingRuleURI>/vmrest/messageagingpolicies/0f02be4e-5d70-4a1d-b182-
    ce14ede90ac0/messageagingrules</MessageAgingRuleURI>
  </MessageAgingPolicy>
  <MessageAgingPolicy>
    <URI>/vmrest/messageagingpolicies/7f762fe2-ef33-4664-afb9-bd47c2ef7e41</URI>
    <ObjectId>7f762fe2-ef33-4664-afb9-bd47c2ef7e41</ObjectId>
    <Enabled>false</Enabled>
    <DisplayName>Do Not Age Messages</DisplayName>
    <MessageAgingRuleURI>/vmrest/messageagingpolicies/7f762fe2-ef33-4664-afb9-
    bd47c2ef7e41/messageagingrules</MessageAgingRuleURI>
  </MessageAgingPolicy>
</MessageAgingPolicies>
```

```
Response Code: 200
```

JSON Example

To list all the message aging policies, do the following:

```
Request URI:
GET https://<connection-server>/vmrest/messageagingpolicies
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"
  "MessageAgingPolicy":[
  {
    "URI":"/vmrest/messageagingpolicies/adac77f4-8a77-430d-8836-0fc9aef3fef5"
    "ObjectId":"adac77f4-8a77-430d-8836-0fc9aef3fef5"
    "Enabled":"true"
    "DisplayName":"Default System Policy"
    "MessageAgingRuleURI":"/vmrest/messageagingpolicies/adac77f4-8a77-430d-8836-
    0fc9aef3fef5/messageagingrules"
  }
  {
    "URI":"/vmrest/messageagingpolicies/2e02eca6-270b-4b7f-a153-f03ea74d403d"
    "ObjectId":"2e02eca6-270b-4b7f-a153-f03ea74d403d"
    "Enabled":"false"
    "DisplayName":"Do Not Age Messages"
    "MessageAgingRuleURI":"/vmrest/messageagingpolicies/2e02eca6-270b-4b7f-a153-
    f03ea74d403d/messageagingrules"
  }
  ]
}
```

```
Response Code: 200
```

Viewing the Specific Message Aging Policy

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

```
GET https://<connection-server>/vmrest/messageagingpolicies/<messageagingpolicyobject-id>
```

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

```
<MessageAgingPolicy>
    <URI>/vmrest/messageagingpolicies/3f3f9297-e1eb-46a5-bbdf-d86298e2531c</URI>
    <ObjectId>3f3f9297-e1eb-46a5-bbdf-d86298e2531c</ObjectId>
    <Enabled>true</Enabled>
    <DisplayName>Texoma_Message_Policy</DisplayName>
    <MessageAgingRuleURI>/vmrest/messageagingpolicies/3f3f9297-e1eb-46a5-bbdf-
d86298e2531c/messageagingrules</MessageAgingRuleURI>
</MessageAgingPolicy>
```

```
Response Code: 200
```

JSON Example

To list details of an individual message aging policy, do the following:

```
Request URI:
GET https://<connection-server>/vmrest/messageagingpolicies/<messageagingpolicyobject-id>
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:

```
{
    "URI":"/vmrest/messageagingpolicies/3f3f9297-e1eb-46a5-bbdf-d86298e2531c"
    "ObjectId":"3f3f9297-e1eb-46a5-bbdf-d86298e2531c"
    "Enabled":"true"
    "DisplayName":"Default System Policy"
    "MessageAgingRuleURI":"/vmrest/messageagingpolicies/3f3f9297-e1eb-46a5-bbdf-
d86298e2531c/messageagingrules"
}
```

```
Response Code: 200
```

Creating a Message Aging Policy

Example 1: The following is an example of the POST request that creates a message aging policy:

```
*POST https://<connection-server>/vmrest/messageagingpolicies
Request Body:
<MessageAgingPolicy>
    <DisplayName>Texoma_Message_Policy</DisplayName>
</MessageAgingPolicy>
```

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
/vmrest/messageagingpolicies/3f3f9297-e1eb-46a5-bbdf-d86298e2531c
```

JSON Example

To create new message aging policy, do the following:

```
Request URI:
POST https://<connection-server>/vmrest/messageagingpolicies
Accept: application/json
Content-Type: application/json
Connection: keep-alive
Request Body:
{
    "DisplayName":"Texoma_Message_Policy"
}
```

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
/vmrest/messageagingpolicies/3f3f9297-e1eb-46a5-bbdf-d86298e2531c
```

Example 2: The following is the example of the create a new message aging policy with some more parameter

```
*POST https://<connection-server>/vmrest/messageagingpolicies
Request Body:
<MessageAgingPolicy>
    <DisplayName>Texoma_New_Message_Policy</DisplayName>
    <Enabled>false</Enabled>
</MessageAgingPolicy>
```

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
/vmrest/messageagingpolicies/3f3f9297-e1eb-46a5-bbdf-d86298e2531c
```

Updating a Message Aging Policy Parameters

The following is an example of the PUT request that allows you to update the display name of message aging policy:

```
*PUT https://<connection-server>/vmrest/messageagingpolicies/<messageagingpolicyobject-id>
Request Body:
<MessageAgingPolicy>
    <DisplayName>Texoma_Message_Policy_2</DisplayName>
</MessageAgingPolicy>
```

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

```
Response Code: 204
```

JSON Example

To update the display name of message aging policy, do the following:

```
Request URI:
PUT https://<connection-server>/vmrest/messageagingpolicies/<messageagingpolicyobject-id>
Accept: application/json
Content-Type: application/json
Connection: keep-alive
Request Body:
{
    "DisplayName":"Texoma_Message_Policy_2"
}
```

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
```

Deleting a Message Aging Policy

The following is an example of the DELETE request that deletes a message aging policy with a valid object ID:

```
DELETE https://<connection-server>/vmrest/messageagingpolicies<messageagingpolicyobject-id>
```

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

```
Response Code: 204
```

JSON Example

To delete a message aging policy with a valid object ID, do the following:

```
DELETE https://<connection-server>/vmrest/messageagingpolicies<messageagingpolicyobject-id>
Accept: application/json
Connection: keep-alive
```

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

```
Response Code: 204
```

Explanation of Data Fields

The following chart lists all of the data fields:

Parameters	Operations	Data Type	Comments
DisplayName	Read/Write	String	Name of the Message Aging Policy Maximum length: 64
Enabled	Read/Write	Boolean	Specifies if message aging rules to be applied or not. Possible values: • true: If message aging rules to be enforced. • false: If message aging rules to be ignored. Default value is true.
MessageAgingRuleURI	Read Only	String	Specifies the URI of message aging rules.
ObjectId	Read Only	String	Object Id of the message aging policy. Maximum length : 36
URI	Read Only	String	Specifies the message aging policy URI.

Cisco Unity Connection Provisioning Interface (CUPI) API -- Message Aging Rules

Message Aging Rules

Administrator can use this API to update/ fetch the message aging rules. Various attributes of message aging rules can also be updated using this API.

Listing the Message Aging Rules

The following is an example of the GET request that lists all the message aging rules:

```
GET
https://<connection-server>/vmrest/messageagingpolicies/<messageagingpolicyobject-Id>/messageagingrules
```

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

```
<MessageAgingRules total="2">
  <MessageAgingRule>
    <URI>/vmrest/messageagingpolicies/0f02be4e-5d70-4a1d-b182-
    ce14ede90ac0/messageagingrules/6951ad4c-a16c-4bf2-b61a-300bbf24519d</URI>
    <MessageAgingPolicyObjectId>0f02be4e-5d70-4a1d-b182-
    ce14ede90ac0</MessageAgingPolicyObjectId>
    <MessageAgingPolicyURI>/vmrest/messageagingpolicies/0f02be4e-5d70-4a1d-b182-
    ce14ede90ac0</MessageAgingPolicyURI>
    <ObjectId>6951ad4c-a16c-4bf2-b61a-300bbf24519d</ObjectId>
    <Days>7</Days>
    <Enabled>true</Enabled>
    <Secure>false</Secure>
    <SendNotification>true</SendNotification>
    <NotificationDays>3</NotificationDays>
    <RuleDescription>Move Saved Messages to the Deleted Items</RuleDescription>
  </MessageAgingRule>
  <MessageAgingRule>
    <URI>/vmrest/messageagingpolicies/0f02be4e-5d70-4a1d-b182-
    ce14ede90ac0/messageagingrules/8792058b-cf27-4c10-8ac1-e903b8d18065</URI>

<MessageAgingPolicyObjectId>0f02be4e-5d70-4a1d-b182-ce14ede90ac0</MessageAgingPolicyObjectId>

    <MessageAgingPolicyURI>/vmrest/messageagingpolicies/0f02be4e-5d70-4a1d-b182-
    ce14ede90ac0</MessageAgingPolicyURI>
    <ObjectId>8792058b-cf27-4c10-8ac1-e903b8d18065</ObjectId>
    <Days>15</Days>
    <Enabled>true</Enabled>
    <Secure>false</Secure>
    <SendNotification>false</SendNotification>
    <NotificationDays>3</NotificationDays>
    <RuleDescription>Permanently Delete Messages in the Deleted Items </RuleDescription>
  </MessageAgingRule>
</MessageAgingRules>
```

```
Response Code: 200
```

JSON Example

To list all message aging rules, do the following:

```
Request URI:
GET
https://<connection-server>/vmrest/messageagingpolicies/<messageagingpolicyobject-Id>/messageagingrules
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"
  "MessageAgingRule":
  [
  {
    "URI":"/vmrest/messageagingpolicies/2fcb9e34-bb41-41e3-b212-
    1bff3e1d93ed/messageagingrules/230f8ab1-1dba-45db-8e2c-dbd22cad718a"
    "MessageAgingPolicyObjectId":"2fcb9e34-bb41-41e3-b212-    1bff3e1d93ed"
    "MessageAgingPolicyURI":"/vmrest/messageagingpolicies/2fcb9e34-bb41-41e3-b212-
    1bff3e1d93ed"
    "ObjectId":"230f8ab1-1dba-45db-8e2c-dbd22cad718a"
    "Days":"30"
    "Enabled":"true"
    "Secure":"true"
    "SendNotification":"false"
    "NotificationDays":"3"
    "RuleDescription":"Permanently Delete Secure Touched Messages "
  }
  {
    "URI":"/vmrest/messageagingpolicies/2fcb9e34-bb41-41e3-b212-
    1bff3e1d93ed/messageagingrules/b0bc585c-7704-4f36-b7f6-8e8319d89da3"
    "MessageAgingPolicyObjectId":"2fcb9e34-bb41-41e3-b212-1bff3e1d93ed"
    "MessageAgingPolicyURI":"/vmrest/messageagingpolicies/2fcb9e34-bb41-41e3-b212-
    1bff3e1d93ed"
    "ObjectId":"b0bc585c-7704-4f36-b7f6-8e8319d89da3"
    "Days":"60"
    "Enabled":"false"
    "Secure":"true"
    "SendNotification":"false"
    "NotificationDays":"3"
    "RuleDescription":"Permanently Delete All Secure Messages "
  }
  ]
}
```

```
Response Code: 200
```

Viewing the Specific Message Aging Rule

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

```
GET https://<connection-server>/vmrest/messageagingpolicies/<messageagingpolicyobject-
  Id>/messageagingrules/<messageagingruleobject-Id>
```

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

```
<MessageAgingRule>
    <URI>/vmrest/messageagingpolicies/0f02be4e-5d70-4a1d-b182-
    ce14ede90ac0/messageagingrules/c160becb-0042-441e-a021-4bb4aeb05da4</URI>
    <MessageAgingPolicyObjectId>0f02be4e-5d70-4a1d-b182-
    ce14ede90ac0</MessageAgingPolicyObjectId>
    <MessageAgingPolicyURI>/vmrest/messageagingpolicies/0f02be4e-5d70-4a1d-b182-
    ce14ede90ac0</MessageAgingPolicyURI>
    <ObjectId>c160becb-0042-441e-a021-4bb4aeb05da4</ObjectId>
    <Days>30</Days>
    <Enabled>false</Enabled>
    <Secure>true</Secure>
    <SendNotification>false</SendNotification>
    <NotificationDays>3</NotificationDays>
    <RuleDescription>Permanently Delete Secure Touched Messages </RuleDescription>
</MessageAgingRule>
```

```
Response Code: 200
```

JSON Example

To list details of an individual message aging rule, do the following:

```
Request URI:
GET https://<connection-server>/vmrest/messageagingpolicies/<messageagingpolicyobject-
Id>/messageagingrules/<messageagingruleobject-Id>
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:

```
{
    "URI":"/vmrest/messageagingpolicies/0f02be4e-5d70-4a1d-b182-
ce14ede90ac0/messageagingrules/c160becb-0042-441e-a021-4bb4aeb05da4"
    "MessageAgingPolicyObjectId":"0f02be4e-5d70-4a1d-b182-ce14ede90ac0"
    "MessageAgingPolicyURI":"/vmrest/messageagingpolicies/0f02be4e-5d70-4a1d-b182-
ce14ede90ac0"
    "ObjectId":"c160becb-0042-441e-a021-4bb4aeb05da4"
    "Days":"60"
    "Enabled":"false"
    "Secure":"true"
    "SendNotification":"false"
    "NotificationDays":"3"
    "RuleDescription":"Permanently Delete Secure Touched Messages"
}
```

```
Response Code: 200
```

Updating a Message Aging Rule

The following is an example of the PUT request that allows you to update the days parameter of enabled message aging rule:

```
PUT
https://<connection-server>/vmrest/messageagingpolicies/<messageagingpolicyobject-Id>/messageagingrules/<messageagingruleobject-Id>
Request Body:
<MessageAgingRule>
    <Days>25</Days>
</MessageAgingRule>
```

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 update the days parameter of enabled message aging rule, do the following:

```
PUT
https://<connection-server>/vmrest/messageagingpolicies/<messageagingpolicyobject-Id>/messageagingrules/<messageagingruleobject-Id>
Accept : application/json
Content-Type: application/json
Connection: keep-alive
Request Body:
{
    "Days":"25"
}
```

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
```

Note You can't update the days as well as the NotificationDays parameter if message aging rule is disabled.

Explanation of Data Fields

The following chart lists all of the data fields:

Parameter	Operation	Data Type	Comments
Days	Read/Write	Integer	Age message older than this number of days. Range: 1 to 365.
Action	Read/Write	Integer	Describes the action to take when the rule is applied. Default Value: 0 Values: • 0: Soft Delete • 1: Hard Delete • 2: ToSaved
Enabled	Read/Write	Boolean	It specifies whether the particular rule is enabled or not. Values : true or false Default Value: true.
MessageAgingPolicyObjectId	Read Only	String (36)	It specifies the object id of respective Message Aging Policy
MessageAgingPolicyURI	Read/Write	String	URI of Message Aging Policy.

Parameter	Operation	Data Type	Comments
AgingRuleType	Read/Write	Integer	Contains the type or purpose of the aging rule. Default Value: 10 Values: • 10: MoveSeenToDeleted • 11: HardDeleteDeleted • 12: HardDeleteSecureTouched • 13: HardDeleteAllSecure • 14: MoveNewToSaved
AgingTimeType	Read/Write	Integer	This defines what column to use (modificationtime or arrivaltime) when calculating messages to age. Default Value: 0 Value: • 0: ModificationTime • 1: ArrivalTime
LastMessageNotifiedMarker	Read/Write	datetime	A marker used by the sysagent task so we don't send more than one notification per message.
NotificationDays	Read/Write	Integer	If SendNotification is True, send the notification this many days before the rule takes place. It is always less than equal to Days parameter. Range: 0 to 365. Default Value: 3.
ObjectId	Read Only	String (36)	Object id of Message Aging Rule
RuleDescription	Read Only	String	It describes the action taken by rule.
Secure	Read Only	Boolean	It specifies whether the message is secured type or not.
SendNotification	Read/Write	Boolean	It specifies whether notification is sent prior to taking action. Values: true or false. Default Value: false.
Seen	Read/Write	Integer	Apply this rule to messages where tbl_FolderItem. Seen is equal to this value. Default Value: NULL
Recent	Read/Write	Integer	If SendNotification is True, send the notification this many days before the rule takes place. Default Value: 3
URI	Read Only	string	URI of Message Aging Rule.

Cisco Unity Connection Provisioning Interface (CUPI) API -- Message Aging Text

Message Aging Text

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

Listing the Message Aging Texts

The following is an example of the GET request that lists all the message aging texts:

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

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

```
<MessageAgingTexts total="1">
  <MessageAgingText>
     <URI>/vmrest/messageagingtexts/0220cac9-6df0-48c2-929f-e38d7ff88e3d</URI>
     <ObjectId>0220cac9-6df0-48c2-929f-e38d7ff88e3d</ObjectId>
     <LanguageCode>1033</LanguageCode>
     <DefaultSubject>Your message from %SENDER% will be moved to the Saved Messages
    folder in %DAYSUNTIL% day(s).</DefaultSubject>
     <Subject/>
     <DefaultBody>Your message from %SENDER%, which was received on
     %MODIFICATIONTIME%, will be moved to the Saved Messages folder in %DAYSUNTIL%
     day(s).</DefaultBody>
     <Body/>
     <UseDefault>false</UseDefault>
     <RuleDescription>Text for Move New Messages to the Saved Messages Folder
   Rule</RuleDescription>
  </MessageAgingText>
<MessageAgingTexts>
```

```
Response Code: 200
```

JSON Example

To list all the message aging texts, do the following:

```
Request URI:
GET https://<connection-server>/vmrest/messageagingtexts
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"
     "MessageAgingText":[
{
     "URI": "/vmrest/messageagingtexts/0220cac9-6df0-48c2-929f-e38d7ff88e3d",
     "ObjectId": "0220cac9-6df0-48c2-929f-e38d7ff88e3d",
     "LanguageCode": "1033",
     "DefaultSubject": "Your message from %SENDER% will be moved to the Saved Messages
   folder in %DAYSUNTIL% day(s).",
     "Subject": [],
     "DefaultBody": "Your message from %SENDER%, which was received on
   %MODIFICATIONTIME%, will be moved to the Saved Messages folder in %DAYSUNTIL% day(s).",

     "Body": [],
     "UseDefault": "false",
     "RuleDescription": "Text for Move New Messages to the Saved Messages Folder Rule"
  }
  ]
}
```

```
Response Code: 200
```

JSON Example

To list all the message aging texts, do the following:

```
Request URI:
GET https://<connection-server>/vmrest/messageagingtexts
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"
     "MessageAgingText":[
{
     "URI": "/vmrest/messageagingtexts/0220cac9-6df0-48c2-929f-e38d7ff88e3d",
     "ObjectId": "0220cac9-6df0-48c2-929f-e38d7ff88e3d",
     "LanguageCode": "1033",
     "DefaultSubject": "Your message from %SENDER% will be moved to the Saved Messages
   folder in %DAYSUNTIL% day(s).",
     "Subject": [],
     "DefaultBody": "Your message from %SENDER%, which was received on
   %MODIFICATIONTIME%, will be moved to the Saved Messages folder in %DAYSUNTIL% day(s).",

     "Body": [],
     "UseDefault": "false",
     "RuleDescription": "Text for Move New Messages to the Saved Messages Folder Rule"
  }
  ]
}
```

```
Response Code: 200
```

Viewing the Specific Message Aging Text

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

```
GET https://<connection-server>/vmrest/messageagingtexts/<messageagingtextobject-id>
```

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

```
<MessageAgingText>
     <URI>/vmrest/messageagingtexts/0220cac9-6df0-48c2-929f-e38d7ff88e3d</URI>
     <ObjectId>0220cac9-6df0-48c2-929f-e38d7ff88e3d</ObjectId>
     <LanguageCode>1034</LanguageCode>
     <DefaultSubject>Your message from %SENDER% will be moved to the Saved Messages folder
 in
   %DAYSUNTIL% day(s).</DefaultSubject>
     <Subject/>
     <DefaultBody>Your message from %SENDER%, which was received on %MODIFICATIONTIME%,
   will be moved to the Saved Messages folder in %DAYSUNTIL% day(s).</DefaultBody>
     <Body/>
     <UseDefault>true</UseDefault>
     <RuleDescription>Text for Move New Messages to the Saved Messages Folder
   Rule</RuleDescription>
</MessageAgingText>
```

```
Response Code: 200
```

JSON Example

To list details of an individual message aging text, do the following:

```
Request URI:
GET https://<connection-server>/vmrest/messageagingtexts/<messageagingtextobject-id>
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:

```
{
     "URI": "/vmrest/messageagingtexts/0220cac9-6df0-48c2-929f-e38d7ff88e3d",
     "ObjectId": "0220cac9-6df0-48c2-929f-e38d7ff88e3d",
     "LanguageCode": "1034",
     "DefaultSubject": "Your message from %SENDER% will be moved to the Saved Messages
folder in
   %DAYSUNTIL% day(s).",
     "Subject": [],
     "DefaultBody": "Your message from %SENDER%, which was received on %MODIFICATIONTIME%,

   will be moved to the Saved Messages folder in %DAYSUNTIL% day(s).",
    "Body": [],
    "UseDefault": "true",
    "RuleDescription": "Text for Move New Messages to the Saved Messages Folder Rule"
}
```

```
Response Code: 200
```

Updating a Message Aging Text

Example 1: Update UseDefault Parameter

The following is an example of the PUT request that allows you to update the parameters of message aging text:

```
PUT https://<connection-server>/vmrest/messageagingtexts/<messageagingtextobjectid>
Request Body:
<MessageAgingText>
     <UseDefault>Message Aging Text</UseDefault>
</MessageAgingText>
```

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 update the parameter of message aging text, do the following:

```
Request URI:
PUT https://<connection-server>/vmrest/messageagingtexts/<messageagingtextobjectid>
Accept: application/json
Content-Type: application/json
Connection: keep-alive
Request Body:
{
     "UseDefault":"Message Aging Text"
}
```

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
```

Example 2: Update Subject and Body of Message Aging Text

The following is an example of the PUT request that allows you to update the parameters of message aging text:

```
PUT https://<connection-server>/vmrest/messageagingtexts/<messageagingtextobjectid>
Request Body:
<MessageAgingText>
     <UseDefault>false</UseDefault>
     <Subject>Message aging text</Subject>
     <Body>Message aging Text</Body>
</MessageAgingText>
```

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 update the subject and body of message aging text, do the following:

```
Request URI:
PUT https://<connection-server>/vmrest/messageagingtexts/<messageagingtextobjectid>
Accept: application/json
Content-Type: application/json
Connection: keep-alive
Request Body:
{
     "UseDefault": "False",
     "Subject": "Message Aging test",
     "Body": "Message Aging Text"
}
The following is the response from the above *PUT* request and the actual response will
depend upon the information given by you:
<pre>
Response Code: 204
```

Explanation of Data Fields

Parameter	Operations	Data Type	Comments
ObjectId	Read Only	String (36)	Object id of message aging text
LanguageCode	Read/Write	Integer	the language identifier for this row
DefaultSubject	Read Only	String (84)	Default data supplied subject
Subject	Read/Write	String (84)	Admin supplied subject. Can be modified or updated only if UseDefault parameter is false.
DefaultBody	Read Only	String (2048)	Default data supplied default body.

Cisco Unity Connection Provisioning Interface (CUPI) API -- Message Expiration

Message Expiration

Administrator can use this API to set number of days after which message will be expired and hard deleted from the system. Message Expiration value is applicable for both audio as well as video messages.

Fetching Message Expiration field value

The following is an example of the GET request to fetch Message Expiration field value of audio and video messages:

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

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

```
<MessageExpirations total="1">
<MessageExpiration>
<URI>/vmrest/messageexpirations/72269af8-7376-48d2-bf23-9abf6e98b303</URI>
<ObjectId>72269af8-7376-48d2-bf23-9abf6e98b303</ObjectId>
<Enabled>false</Enabled>
<MaximumAgeDays>180</MaximumAgeDays>
<MaxVideoMsgAgeDays>30</MaxVideoMsgAgeDays>
</MessageExpiration>
</MessageExpirations>
```

```
Response Code: 200
```

JSON Example

```
GET https://<connection-server>/vmrest/messageexpirations
Accept: application/json
Content_type: application/json
Connection: keep_alive
```

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

```
{
   "@total": "1",
   "MessageExpiration":    {
      "URI": "/vmrest/messageexpirations/72269af8-7376-48d2-bf23-9abf6e98b303",
      "ObjectId": "72269af8-7376-48d2-bf23-9abf6e98b303",
      "Enabled": "true",
      "MaximumAgeDays": "180",
      "MaxVideoMsgAgeDays": "30"
   }
}
```

```
Response Code: 200
```

Enabling and Updating Message Expiration field value

The following is an example of the PUT request that allows you to enable message expiration and update the number of days for Message Expiration of audio and video messages:

```
PUT https://<connection-server>/vmrest/messageexpirations/<messageexpirationobjectid>
Request Body:
<MessageExpiration>
<Enabled>true</Enabled>
<MaximumAgeDays>23</MaximumAgeDays>
<MaxVideoMsgAgeDays>11</MaxVideoMsgAgeDays>
</MessageExpiration>
```

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

```
PUT https://<connection-server>/vmrest/messageexpirations/<messageexpirationobjectid>
Accept: application/json
Content_type: application/json
Connection: keep_alive
Request Body:
{
      "Enabled": "true",
      "MaximumAgeDays": "55",
      "MaxVideoMsgAgeDays": "44"
}
```

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

```
Response Code: 204
```

Explanation of Data Fields

The following chart lists all of the data fields:

Parameter	Operations	Data Type	Comments
ObjectId	Read Only	String (36)	A globally unique, system-generated identifier for Message Expiration Policy.
Enabled	Read/Write	Boolean	A flag indicating whether the Message Expiration is applicable or not. Values can be: • false - Message Expiration is not applicable. • true - Message Expiration is applicable. Default Value - false
MaximumAgeDays	Read/Write	Integer	The number of days after which the audio/video message will be marked as expired from the Cisco Unity Connection. • Range - 1-999 Days Default Value - 180
MaxVideoMsgAgeDays	Read/Write	Integer	The number of days after which the video part of a video message will be deleted and only audio part will be retained. Note: It is recommended that the number of days entered in MaxVideoMsgAgeDays should be less than the number of days entered in MaximumAgeDays field. • Range - 1-999 Days Default Value - 30