

[Back to: CUMI API Overview](#)

## Contents

- [1 About Notifications](#)
- [2 Getting Started](#)
- [3 Comet Event Structure](#)
  - ◆ [3.1 Example Comet Notifications](#)
  - ◆ [3.2 Example Comet Event](#)

## About Notifications

CUMI supports Comet notifications for message operations on the Inbox and Deleted folders.

## Getting Started

These are the basic steps to get up and running with Comet:

1. **Start Jetty:** Activate the Connection Jetty service by browsing to the Cisco Unity Connection Serviceability page and selecting Services. Find Connection Jetty in the list and select the Activate button.
2. **Request Notifications:** Clients need to request notifications so that the Connection server knows it should start publishing Comet events for the current authenticated user:

```
$.ajax({
  type: "POST",
  contentType: "application/xml; charset=utf-8",
  url: "/vmrest/mailbox?method=requestnotification",
  data: "{}",
  dataType: "text",
  success: function(subscriptionId) {
    gSubscriptionId = subscriptionId;
    alert("Requested events for mailbox, subscriptionId=" + subscriptionId);
  }
});
```

This returns a subscriptionId that must be used to get Comet notifications for this user (rather than the userID, for security reasons).

3. **Subscribe for events:** This is just standard Comet now, but there are a few details to know such as the port and URL to use. Jetty runs on port 7080, and cometd is running at /vmevents/cometd. Here's sample code to initialize and subscribe (in JQuery):

```
$.comet.init("http://connection-server:7080/vmevents/cometd");
$.comet.subscribe("/vmrest/mailbox/" + gSubscriptionId, function(e)
{
  alert("Event: " + e.data.EventType );
});
```

## Comet Event Structure

Each Comet event has the following attributes:

<b>DisplayName</b>	<b>Display Name of Mailbox</b>
SubscriptionId	Subscription ID
USN	Message USN
EventTime	Time of event
EventType	Type of event
MailboxId	Mailbox ID
MessageInfo	Array of message info objects (see below)

**MessageInfo** is an array of one or more objects with the following attributes:

- MessageId
- CallerAni
- MsgType
- Priority
- ReceiveTime
- Sender

**EventType** will be one of the following:

<b>EventType</b>	<b>Description</b>
NEW_MESSAGE	This event is sent when a new message arrives in the inbox folder.
SAVED_MESSAGE	This message is sent when a message is marked as read in the inbox folder.
UNREAD_MESSAGE	This event is sent when a message is marked as unread in the inbox folder.
DELETED_MESSAGE	This event is sent when a message is deleted from the inbox folder.
DELETED_MESSAGE_CREATE	This event is sent when a new message arrives in the deleted folder.
DELETED_MESSAGE_READ	This event is sent when a message is marked as read in the deleted folder.
DELETED_MESSAGE_UNREAD	The event is sent when a message is marked as unread in the deleted folder.
DELETED_MESSAGE_DELETE	The event is sent when a message is marked as deleted from the deleted folder.

## Example Comet Notifications

**Example 1:** When a message is deleted from inbox folder or when a new message arrives in the deleted folder, the following events take place:

- DELETED\_MESSAGE
- DELETED\_MESSAGE\_CREATE

**Note:** The USN remains the same for both the notification events.

**Example 2:** When a message is marked as undeleted from deleted folder, the following events take place:

- SAVED\_MESSAGE or UNREAD\_MESSAGE
- DELETED\_MESSAGE\_DELETE

**Note:** The USN remains the same for both the notification events.

**Example 3:** When a message is marked as hard deleted from the inbox folder, the following events take place:

- DELETED\_MESSAGE
- DELETED\_MESSAGE\_CREATE
- DELETED\_MESSAGE\_DELETE

**Note:** The USN remains the same for the first two notification events.

Apart from the above examples, the USN is not the same for any of the other notification scenarios.

**Note:** During the time Notifier service is down or inactive, if there is any action taken on a message that is either in the Inbox or Deleted folder, the notification for the latest status of that message is sent when the service is back to its active state.

## Example Comet Event

```
{
  "MessageInfo": [ {
    "CallerAni": "null",
    "Sender": "null",
    "MessageId": "72204bd7-e5c3-446e-adb6-ae5f80db26fb",
    "ReceiveTime": "04:15:40 PM 10/30/2008",
    "Priority": "Normal-Priority",
    "MsgType": "Voice"
  } ],
  "USN": 2265,
  "EventTime": "11:15:40 PM 10/30/2008",
  "SubscriptionId": "00bdcfd3-159a-48d3-ac7b-2f3b4f83db6c",
  "MailboxId": "abell",
  "EventType": "SAVED_MESSAGE",
  "DisplayName": "Alexander Bell"
}
```

**Back to: [CUMI API Overview](#)**