



INTEGRATION NOTE



Installing and Configuring the Microsoft OCS Plug-in for Cisco Unified Videoconferencing Manager Release 7.1

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1 Overview

The Cisco Unified Videoconferencing Manager plug-in for Microsoft Office Communicator Server (OCS) enables OCS users to join MCU conferences.

The plug-in inserts a tab at the bottom of the OCS client interface. Users access MCU conferences by entering a conference ID in this tab.

2 Prerequisites

- A functional Cisco Unified Videoconferencing Manager server synchronized with Microsoft Active Directory and operating in Single Sign-on (SSO) mode.
- OCS installed on your network.
- The OCS registry file (used to display the OCS tab on OCS client machines).

3 How to Configure the Cisco Unified Videoconferencing Manager Server

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Increasing the Maximum Allowed SDP Buffer Size

Procedure

- Step 1** Back up the SIPConfig.xml file located by default under
C:\Program Files\Cisco\Unified Videoconferencing Manager\CUVCMRM\sipserver\conf
- Step 2** If there is an UpdatedSIPConfig.xml file in the same directory as the SIPConfig.xml file, modify the SIP message buffer size in the UpdatedSIPConfig.xml file.
- Step 3** Use a text editing tool to open the SIPConfig.xml file.
- Step 4** Locate the <SIPStack> tag and add the following text to change the maximum SIP message buffer size allowed by Cisco Unified Videoconferencing Manager to not less than 6144 Kbps:
- ```
<SIPStack>
...
 <Stack>
 <StackTcpEnabled>true</StackTcpEnabled>
 <StackSendReceiveBufferSize>3072
 </StackSendReceiveBufferSize>
 </Stack>
...
</SIPStack>
```
- Step 5** Save and close the SIPConfig.xml file.
- Step 6** Restart the “Cisco Unified Videoconferencing Manager” and “Cisco SipServer” services.
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## Defining a Microsoft OCS Server

### Procedure

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- Step 1** Select **Admin > Resource Management > Gatekeeper/SIP Server** in the Cisco Unified Videoconferencing Manager web user interface.
  - Step 2** Enter the IP address or FQDN of the Microsoft OCS server.  
Both kinds of address are supported and no other components have dependencies to this information.
  - Step 3** Select Microsoft OCS as the model type.
  - Step 4** Enter the domain of the Microsoft OCS server in the SIP Domain field.
  - Step 5** If you are using the OCS server FQDN instead of an IP address, define Primary and Alternate DNS servers for the Cisco Unified Videoconferencing Manager host machine.
  - Step 6** Select **OK** to save your changes.
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## Setting MCU SIP Mode

### Procedure

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- Step 1** Go to **Admin > Resource Management > MCU** in the Cisco Unified Videoconferencing Manager web user interface.
  - Step 2** Add a new MCU or select an existing MCU for operation in SIP mode.
  - Step 3** When there is no Cisco IOS H.323 Gatekeeper defined in the system, select **MCU operates in SIP only mode**.
  - Step 4** Select **OK** to save your changes.
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## 4 Configuring the MCU

### Configuring the Cisco Unified Videoconferencing 3500 Series MCU

#### Procedure

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- Step 1** Go to **MCU > Protocols > SIP** in the MCU web user interface.
- Step 2** Select **Enable SIP protocol**.
- Step 3** Select **Using Microsoft OCS**.
- Step 4** Enter the IP address of the Cisco Unified Videoconferencing Manager server in the Specify address field.
- Step 5** Enter 5060 in the port field.
- Step 6** Select **Treat as outbound proxy**.
- Step 7** Select **Advanced SIP Settings**.
- Step 8** Select **Enable Video Fast Update**.
- Step 9** (For OCS R2) Deselect **Support reliable provisional responses (RFC 3262)**.
- Step 10** Deselect **Use 'Empty Invite' when sending Invite messages to endpoints**.
- Step 11** Select **OK** to save your changes.

**Step 12** Go to **MCU > Settings > Advanced** and ensure that Register conference ID is not selected.

**Step 13** Go to **MCU > Services** and ensure that the first audio codec in the MCU service definition is G722.1

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## Configuring the Cisco Unified Videoconferencing 5000 Series MCU

### Procedure

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**Step 1** Go to **MCU > Configuration > Protocols** in the MCU web user interface.

**Step 2** Select the **Enable SIP** protocol check box.

**Step 3** Select the **Specify** option.

**Step 4** Enter the IP address of the Cisco Unified Videoconferencing Manager server in the IP address field.

**Step 5** Enter **5060** in the Port field.

**Step 6** Select the **TCP** option in the Type field.

**Step 7** Select **More**.

**Step 8** Clear **Use 'Empty Invite'** to enable sending invite messages to endpoints.

**Step 9** Select **OK** to save the changes.

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## 5 Configuring the OCS 2007 Server

### Procedure

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**Step 1** Go to **Administrative Tools > Office Communicator 2007** in the OCS 2007 user interface.

**Step 2** Expand the Standard Edition Servers tree view.

**Step 3** Right-select the OCS server name and select **Properties > Front End Properties**.

**Step 4** Add TCP support for inbound connections.

**Step 5** Return to **Administrative Tools > Office Communicator 2007**.

**Step 6** Expand the Standard Edition Servers tree view.

**Step 7** Right-click the OCS server name and select **Properties > Front End Properties**.

**Step 8** Select **Host Authorization**.

**Step 9** Add the Cisco Unified Videoconferencing Manager server as a trusted device using either the IP address or FQDN of the Microsoft OCS server.

Both kinds of address are supported and no other components have dependencies to this information.

**Step 10** Select **OK** to save your changes.

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## 6 Configuring the OCS 2007 R2 Server

### Procedure

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**Step 1** Go to **Administrative Tools > Office Communicator 2007 R2** in the OCS 2007 R2 user interface.

**Step 2** Expand the Enterprise pools tree view.

- Step 3** Right-click the OCS server name and select **Properties > Pool Properties**.
- Step 4** Change the media encryption level to **Support encryption**.
- Step 5** Select **OK** to save your changes.
- Step 6** Expand the Enterprise pools tree view.
- Step 7** Right-click the OCS server name and select **Properties > Front End Properties**.
- Step 8** Select **Add** on the General tab.
- Step 9** Select **TCP** in the Transport field to enable TCP support for inbound connections.
- Step 10** Select **OK** in the Add Connection window.
- Step 11** Select **OK** in the Front End Properties window.
- Step 12** Return to **Administrative Tools > Office Communicator 2007 R2**.
- Step 13** Expand the Enterprise pools tree view.
- Step 14** Right-click the OCS server name and select **Properties > Front End Properties**.
- Step 15** Select **Host Authorization**.
- Step 16** Add the Cisco Unified Videoconferencing Manager server as a trusted device using either the IP address or FQDN of the Microsoft OCS server.
- Both kinds of address are supported and no other components have dependencies to this information.
- Step 17** Select **OK** to save your changes.
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## 7 How to Configure the DNS Server

Use this procedure to define a new host for the pool name, and an SRV record for the SIP service.



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**Note** You can skip this section if your OCS pool name and DNS server name are identical.

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### Procedure

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- Step 1** Go to **Programs > Administrative Tools > DNS**.
- Step 2** Right-click the OCS server name and select **New Host (A)**.
- Step 3** Enter the new OCS server name and IP address for the pool displayed in the Fully qualified domain name (FQDN) field.
- Step 4** Select **Add Host**.
- Step 5** Right-click the OCS server name and select **Other New Records**.
- Step 6** Select **Service Location (SRV)** and select **Create Record**.
- Step 7** Enter a string followed by “\_sip” in the **Service** field.
- Step 8** Select **OK** to save your changes.
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## 8 How to Configure the OCS Client

This section describes how to modify the ocs2007.reg registry file to display the OCS tab on OCS client machines.

You can configure this change in registry settings in the domain controller and push it out to all client machines within the domain using a group policy.

- [Configuring the ocs2007.reg Registry File, page 6](#)

# Configuring the ocs2007.reg Registry File

## Procedure

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- Step 1** Locate the ocs2007.reg registry file supplied with the product.
- Step 2** Open the file with a text editing tool.
- Step 3** Locate the text shown below:
- ```
Windows Registry Editor Version 5.00
[HKEY_LOCAL_MACHINE\SOFTWARE\Policies\Microsoft\Communicator]
"TabURL"="http://Server_Name.Server_Domain:Port/ocs/jsp/oc/tab.xml"

[HKEY_CURRENT_USER\SOFTWARE\Microsoft\Windows\CurrentVersion\Internet
Settings\ZoneMap\Domains\Server_Domain.Server_Name] "http"=dword:00000002"
```
- Step 4** Change Server_Name to the machine name of the Cisco Unified Videoconferencing Manager server.
- Step 5** Change Server_Domain to your organization domain. For example, "mycompany.com".
- Step 6** Verify that you can access the tab.xml file using the URL defined for "TabURL".
- Step 7** Save and close the ocs2007.reg file.
- Step 8** Run the ocs2007.reg file.
- Step 9** The Cisco Unified Videoconferencing Manager server must be defined as a trusted web site in the local intranet zone. If it is not, go to your Internet Explorer security settings and manually add the Cisco Unified Videoconferencing Manager server to the local intranet web site list.
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9 Dialing Directly to the MCU

Users can dial directly to the MCU IP address using the "Auto Attendant" mechanism without the need to register to an H.323 gatekeeper or SIP registrar.

The Auto Attendant feature allows you to access the MCU video Interactive Voice Response (IVR) mechanism by dialing the IP address of the MCU from your H.323 or SIP endpoint.

Users then specify the conference they want to create or join using the MCU IVR.

10 Obtaining Documentation and Submitting a Service Request

For information on obtaining documentation, submitting a service request, and gathering additional information, see the monthly *What's New in Cisco Product Documentation*, which also lists all new and revised Cisco technical documentation, at:

<http://www.cisco.com/en/US/docs/general/whatsnew/whatsnew.html>

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