



Using LifeSize systems with Microsoft Office Communications Server 2007

This technical note describes the steps to integrate a LifeSize video communications device with Microsoft Office Communication Server (OCS) 2007 R1 (v3.0.6362.0 or greater) and R2 (v3.5.6907.0 or greater) and Microsoft Office Communicator 2007 R1 (v2.0.6362.0 or greater) and R2 (v3.5.6907.0 or greater).

Note: When using Microsoft Office Communicator 2007 R2, you must modify your client computer system registry if you receive the following error:

“Incompatible security setting
The call could not be completed because security levels do not match”

To modify the registry, complete the following steps:

1. Select **Run** from the **Start** menu.
2. Enter `regedit` and click **OK**.
3. Navigate to
`HKEY_LOCAL_MACHINE\Software\Policies\Microsoft\Communicator`
4. Under `REG_DWORD`, modify `PC2PCAVEncryption` and set the value to `0`.
(This sets Microsoft Communicator to use encryption only if both ends of the call support it).
5. Exit the registry editor and restart the Microsoft Communicator R2.

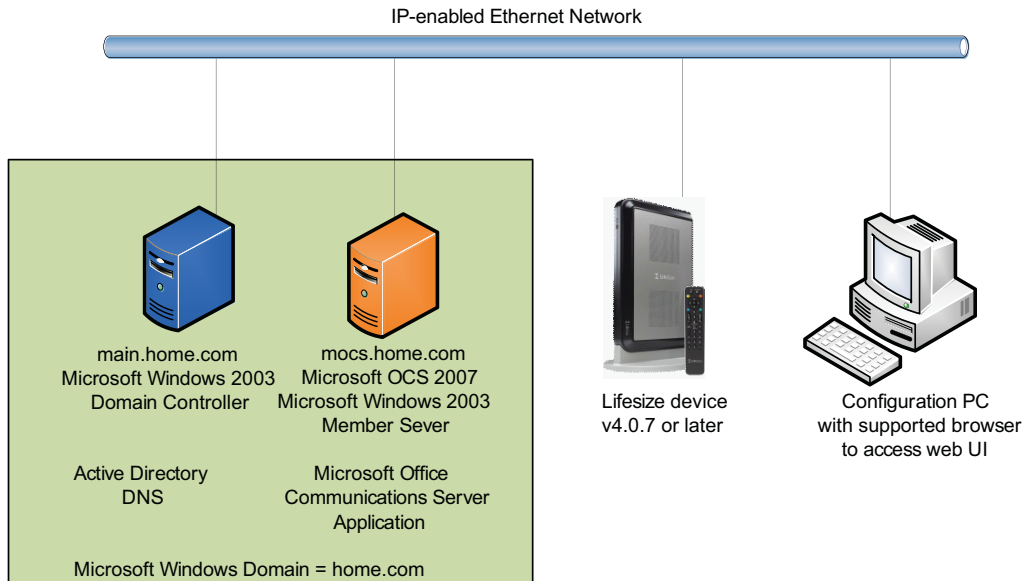
Refer to technet.microsoft.com for more information on registry settings.

Support for Microsoft OCS is available with software release v4.1 or later for LifeSize video communications systems.

This technical note explains how to add LifeSize systems to your contact list in the Microsoft Office Communicator desktop, so that you can place video calls between the desktop and LifeSize systems. You can also place calls from LifeSize systems to third-party systems within the OCS environment using commonly supported video codecs, such as H.263 and audio codecs, such as G.711. Additionally, you can place calls between LifeSize systems using the high definition H.264 video codec, and AAC-LC audio codec.

Server Setup

This technical note assumes that the Microsoft Office Communications Server is deployed on a separate member server within a Microsoft Windows domain. The Windows domain in this example is *home.com*. The Microsoft OCS is *mocs*. The Active Directory users are on *home.com*.



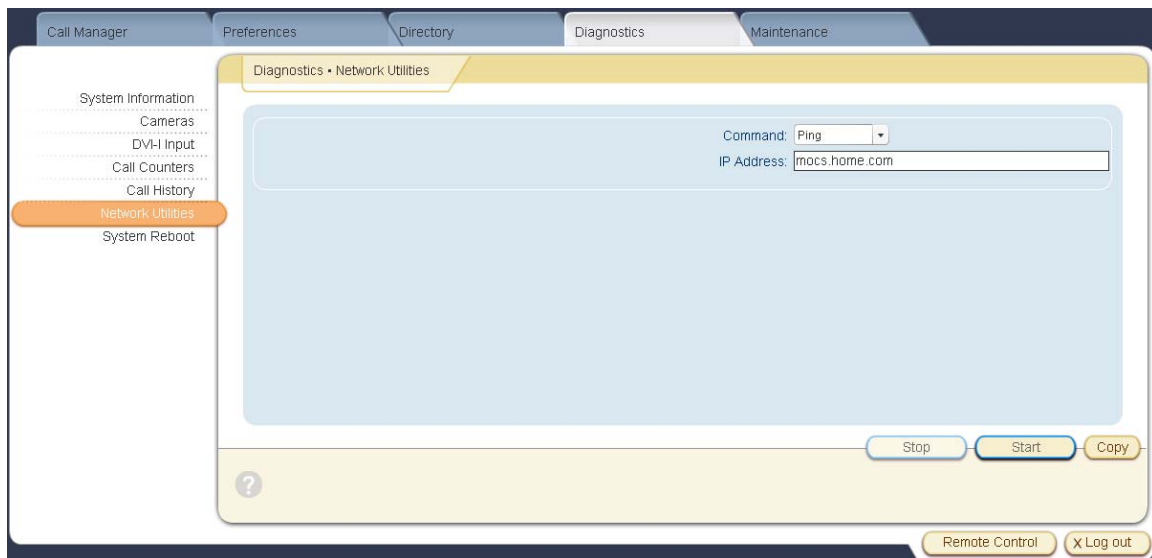
Preparation

Ensure that the LifeSize device can communicate with the Fully Qualified Domain Name (FQDN) of the Microsoft OCS server. Configure the LifeSize device with a DNS server that can resolve the Microsoft OCS FQDN.

To determine if LifeSize can communicate with the Microsoft OCS, access the web administrator interface of the LifeSize device.

1. Click the **Diagnostics** tab.
2. Click **Network Utilities**.
3. For **Command**, select **Ping**.
4. In **IP Address**, enter the FQDN of the Microsoft OCS (*mocs.home.com* in this example).
5. Click **Start**.

The following screen shows an example of a LifeSize device about to ping an OCS server called *mocs.home.com*.

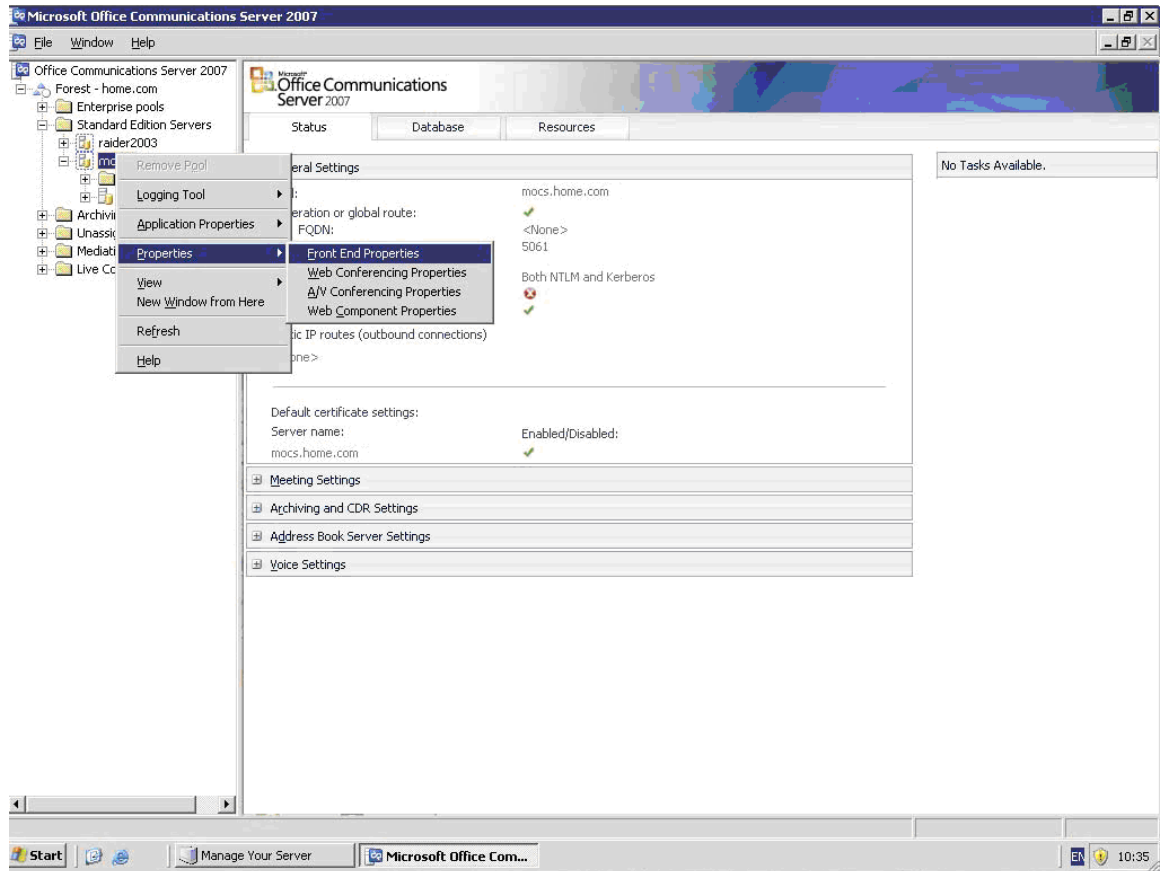


If the ping is not successful, you must resolve this issue before proceeding.

Setting Up the OCS Server

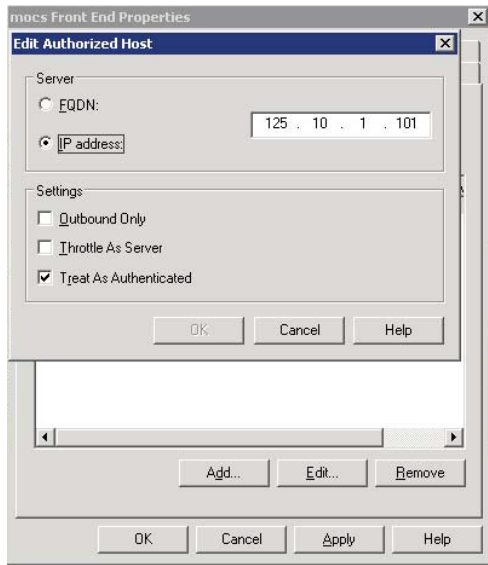
Register the IP address of the LifeSize system with the Microsoft OCS.

1. Open the Microsoft OCS console and locate your server (in this example, *mocs*).
2. Right-click *mocs*, and select **Properties>>Front End Properties**.

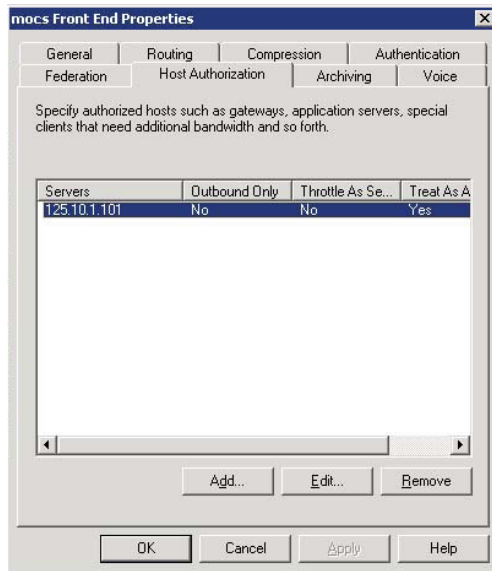


3. Select the **Host Authorization** tab.
4. Click **Add**.

5. Enter the IP address of the LifeSize device and click **Treat as Authenticated**.



6. Click **OK** to dismiss the **Edit Authorized Host** dialog box. The result should be similar to the following (the IP address will be different).

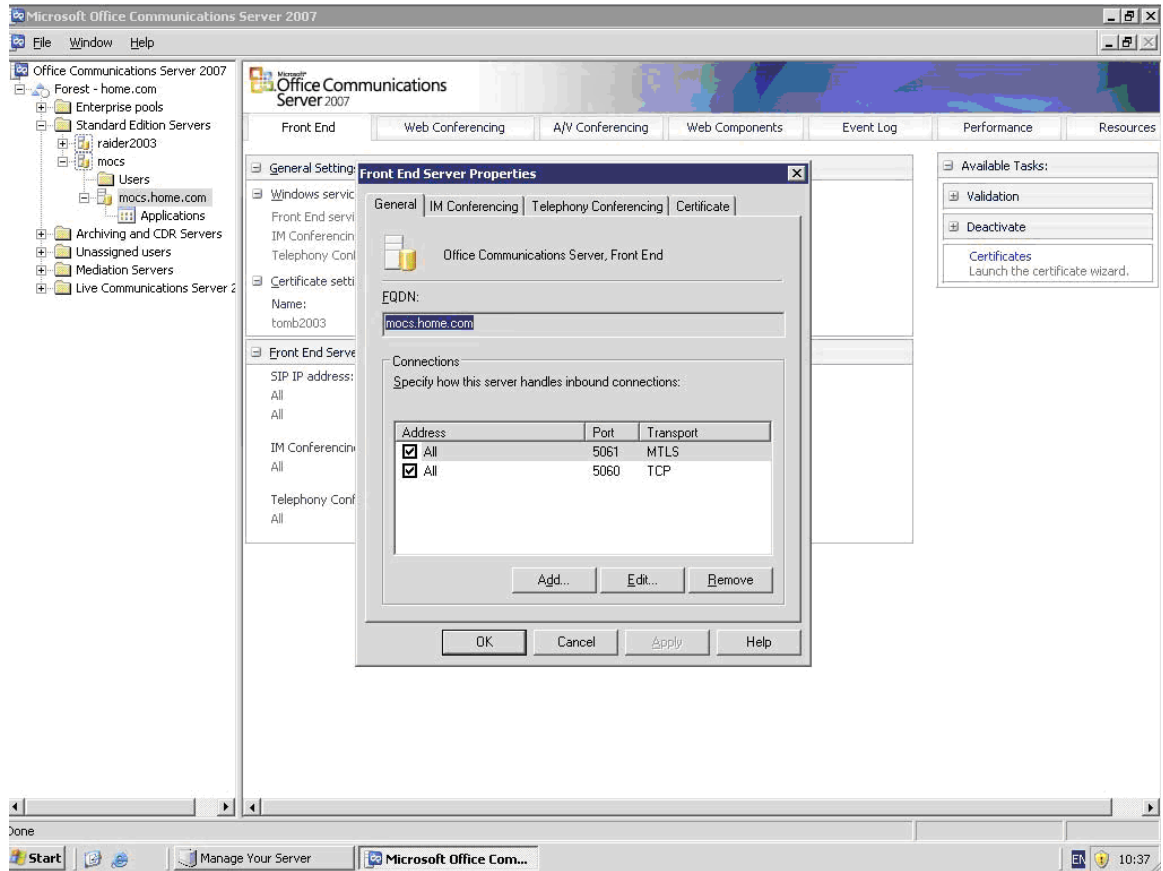


7. Click **OK** to dismiss the **Front End Properties** dialog box.

The default communication protocol for Microsoft OCS is MTLS. To use LifeSize devices, you must enable TCP. Locate your server name (*mocs*) in the Microsoft OCS console and expand its listing to expose the **Users** directory and the Fully Qualified Domain Name (FQDN), which in this example is *mocs.home.com*.

1. Right-click on the FQDN of the server (*mocs.home.com*) and select **Properties>>Front End Properties**.
2. Click **Add**.
3. For **IP Address**, select **All**.
4. For **Port**, enter 5060.

5. For **Transport**, select **TCP**.
6. Click **OK**.

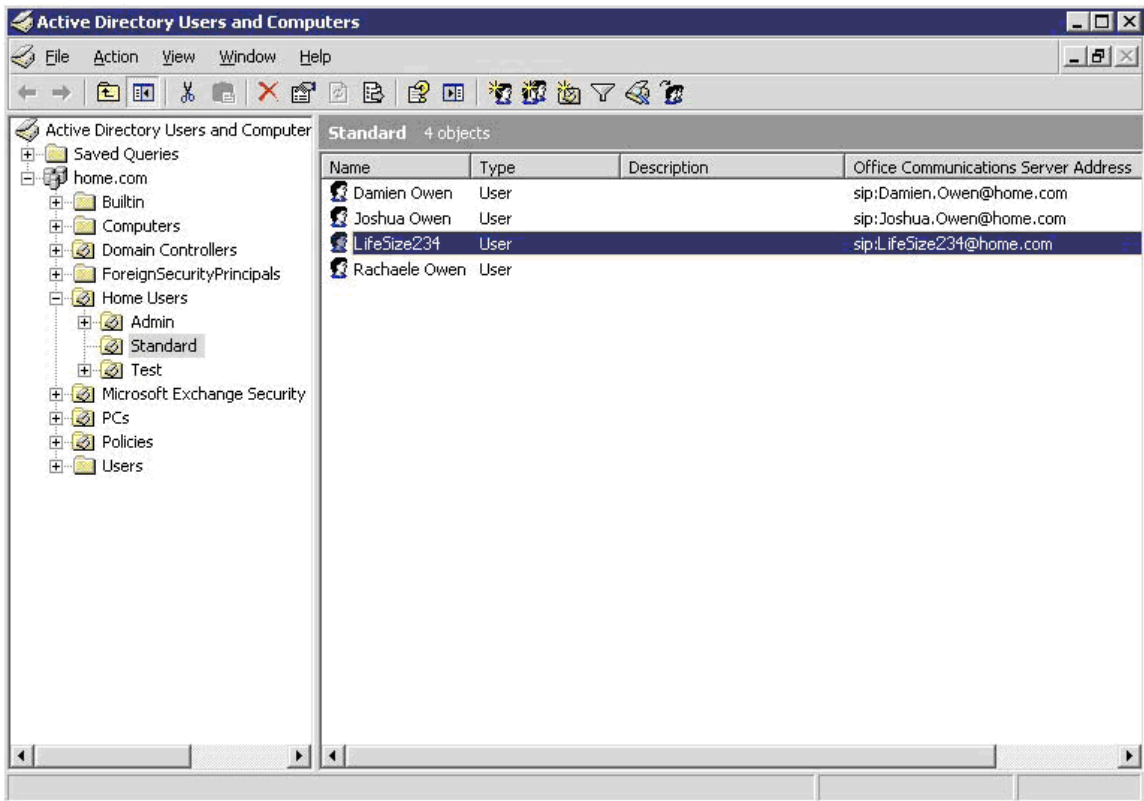


7. Verify that you have successfully added TCP on port 5060 for all IP addresses and click **OK**.

Creating and Configuring an OCS User

Navigate to your domain controller (*home*), and open **Active Directory User and Computers** from **Start>>Administrative Tools**.

1. Right-click on the Users directory and select **User** from the **New** submenu.
2. Enter a first name for the LifeSize system (this is how it will appear in other users' contact lists). For example, *LifeSize234*.
3. Enter a **Logon Name**, for example, *LifeSize234*, and select the domain name for the OCS server. For example, the logon name *LifeSize234@home.com*.
4. Click **Next**.
5. Enter a **Password**.
6. Click the **Password Never Expires** check box.
7. Click **Next**.
8. Click **Finish**.



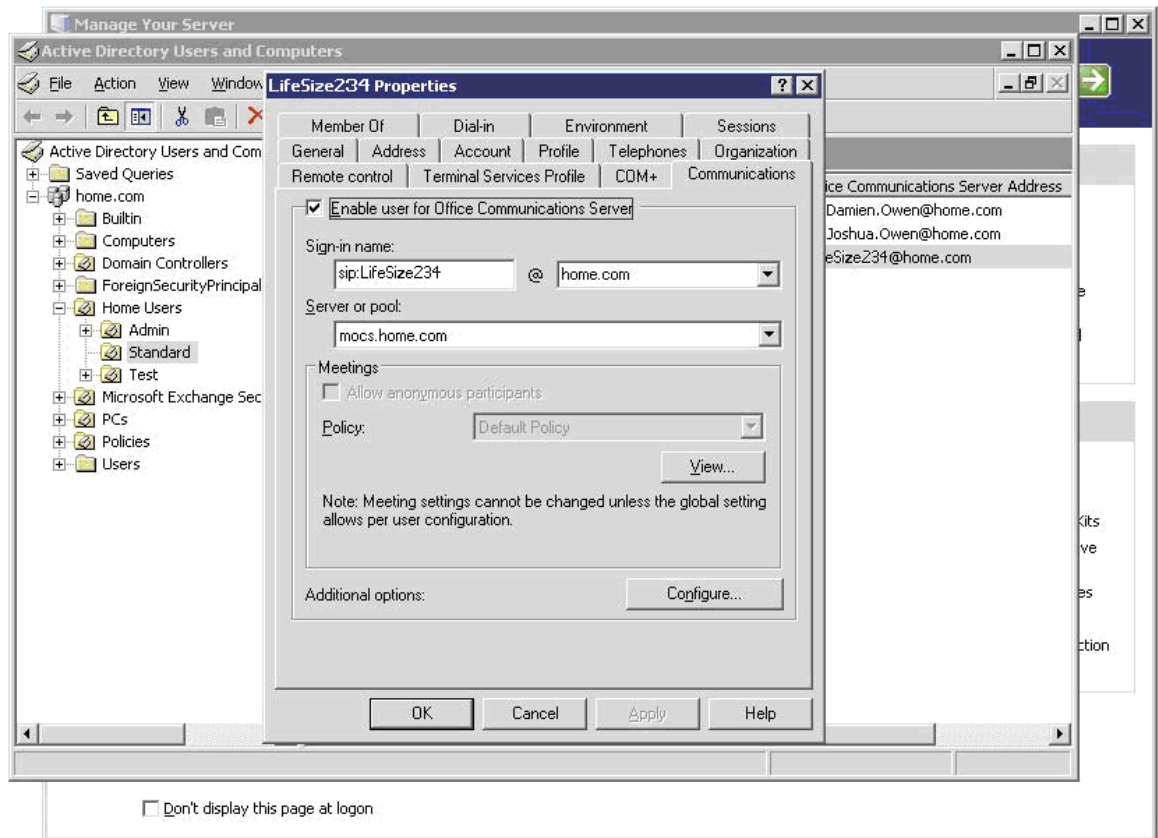
At this stage, the user created for the LifeSize device does not display its SIP ID. Close the console for the domain controller (*home*) and navigate to the console for the Microsoft OCS (*mocs*).

Because Microsoft OCS was installed on a member server (*mocs*) and not the domain server (*home*), *mocs* will not list the **Active Directory User and Computers** option under **Start>>Administrative Tools**. Instead, complete the following steps:

1. Click **Start>>Run**.
2. Enter *DSA.MSC*
3. Click **OK**.

These steps run the **Active Directory Users and Computers** plug-in.

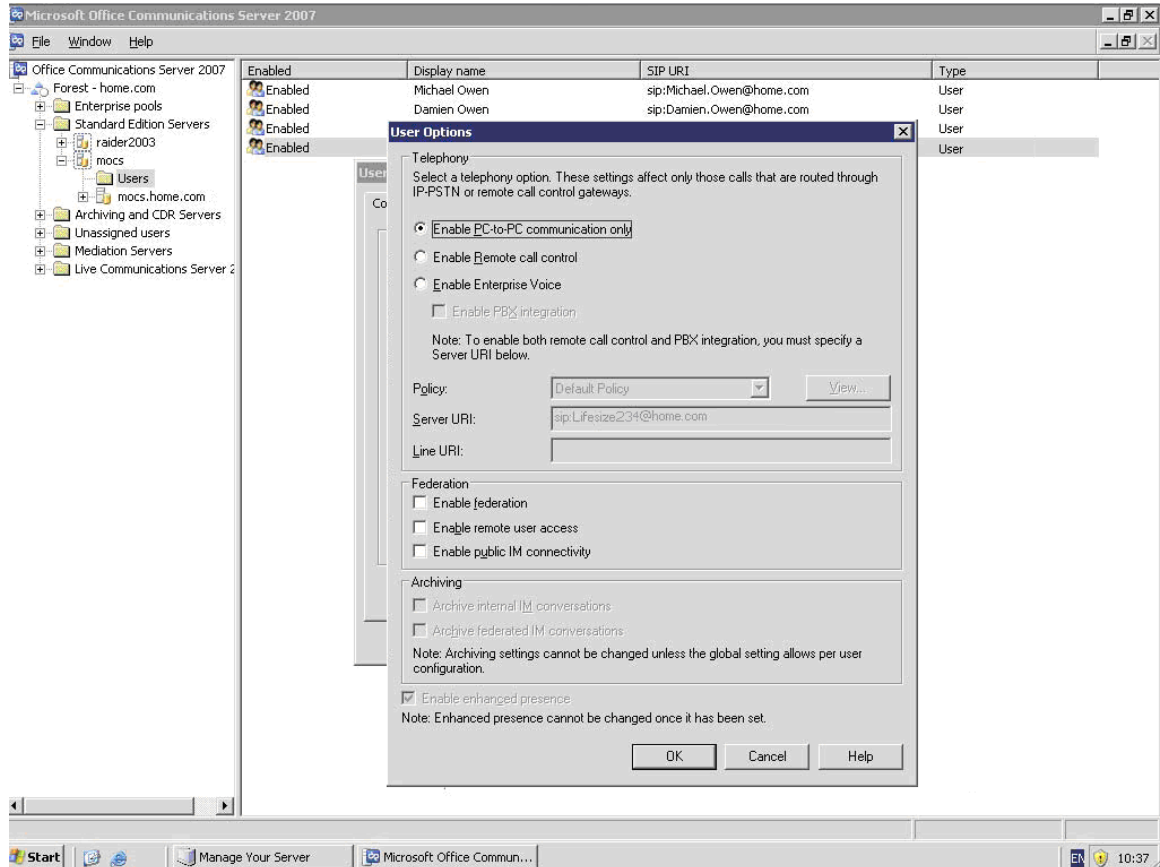
1. From the AD Users directory, locate the user you created for the LifeSize device (in this example, *LifeSize234*).
2. Right-click *LifeSize234* and select **Properties**.
3. Select the **Communications** tab.
4. Select the **Enable user for Office Communications Server** check box.
5. Enter the user name in **Sign-in name** (for example, *sip:LifeSize234*). (It may already be populated.)
6. Select the domain name from the drop down list (for example, *home.com*).
7. Select *mocs.home.com* from **Server or pool**.



8. Click **OK**.
9. Close the Active Directory console.

Open the Microsoft OCS Management console from **Start>>Administrative Tools**.

1. Open the **Users** directory under *mocs*, your Microsoft OCS.
2. Double-click on the SIP ID of the LifeSize Device, *LifeSize234*.
3. Click **Configure**.
4. Ensure **Enable PC-to-PC communication only** is selected.
5. Ensure that Server URI is set to *sip:LifeSize234@home.com*.



6. Click **OK** to close the **Configure** dialog box.
7. Click **OK** to close the **Properties** dialog box.

Configuring the LifeSize Device Using the Web Administrative Interface

Open the web administrative interface for the LifeSize device and complete the following steps:

1. Navigate to **Preferences: Communications : SIP**.
2. Verify that **SIP** is set to *Enabled*.
3. Enter the user name you created in the Active Directory for **SIP Username** (in this example, *LifeSize234*).
4. Enter the same name for **Authorization Name** (in this example, *LifeSize234*).
5. You can leave the **Authorization Password** blank as OCS does not require it.
6. Set **SIP Server Type** to *Microsoft OCS*.
7. Set **SIP Registration** to *Through Proxy*.

8. Set **SIP Proxy** to *Enabled*.
9. Enter the FQDN of the Microsoft Server in **Proxy Hostname** (in this example, *mocs.home.com*).
10. Ensure that the **Proxy IP Port** is set to *5060*.
11. Set **SIP Registrar** to *Enabled*.
12. Set **Registrar Hostname** to the domain name (in this example, *home.com*).
13. Set **TCP Signaling** to *Enabled*.
14. Ensure that the **TCP Signaling Port** is set to *5060*.
15. Click **Refresh**.
16. Ensure the **Registrar Status** at the top of the page changes to *Registered*.

The screenshot shows the SIP configuration interface in Cisco Call Manager. The Registrar Status is 'Registered'. The configuration includes the following fields and values:

- SIP: Enabled
- SIP Username: LifeSize234
- Authorization Name: LifeSize234
- Authorization Password: (empty)
- SIP Server Type: Microsoft OCS
- SIP Registration: Through Proxy
- SIP Proxy: Enabled
- Proxy Hostname: mocs.home.com
- Proxy IP Port: 5060
- SIP Registrar: Enabled
- Registrar Hostname: home.com
- Registrar IP Port: 5060
- UDP Signaling Port: 5060
- TCP Signaling: Enabled
- TCP Signaling Port: 5060
- TLS Signaling: Disabled
- TLS Signaling Port: 5061





Buttons at the bottom: Save Changes, Cancel Changes, Refresh, Copy.

Adding the LifeSize System to Your Microsoft Office Communicator Contact List

1. Right click on the **Show Menu** button at the top left of the Communicator window and from the **Tools** submenu, select **Add a Contact**.
2. Click **Next**.
3. Add the user name for the LifeSize system. For example, *LifeSize234@home.com*.

Presence States for LifeSize Devices

LifeSize Devices report a subset of Microsoft Office Communicator 2007 presence states as listed in the following table:

Presence Buttons	LifeSize Device Status	Description
	Available	The LifeSize device is online and can participate in calls.
	Busy	The LifeSize device is at its call limit or otherwise cannot receive a call.
	In a call	The LifeSize device is engaged in a call, but can receive additional calls.
	Offline	The LifeSize device is not available.