# Interdomain Federation and Intradomain Federation Deployment Integration

# IM and Presence Service Integration with Interdomain Federation Capability of Microsoft Servers

You can integrate IM and Presence Service with the interdomain federation capability of Microsoft servers.

Microsoft servers support interdomain federation with remote enterprises or public IM providers. This interdomain federation capability is still available to Microsoft Lync or Microsoft Office Communicator users when partitioned intradomain federation is configured between the Microsoft server and IM and Presence Service.

Furthermore, you can configure IM and Presence Service so that users who migrate to an IM and Presence Service supported client can still use the interdomain federation capability that is configured on the Microsoft server.

For information about configuring interdomain federation on IM and Presence Service, see *Interdomain Federation for IM and Presence Service on Cisco Unified Communications Manager*.

## Interactions and Restrictions

- Do not use email for federation when you have an integrated interdomain and partitioned intradomain federation deployment. Email address for federation is not supported in deployments where partitioned intradomain federation is configured. Email address for federation is also not supported for interdomain federation if your deployment uses the interdomain federation capabilities of Skype for

Business/Lync/OCS. Confirm that email address for federation is not enabled anywhere in the deployment in these deployment scenarios.

- When partitioned intradomain federation with the Microsoft server is enabled, it is also possible to configure both SIP-based and XMPP-based interdomain federation to remote domains on IM and Presence Service. However, this federation capability is available to users on IM and Presence Service supported clients only.

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# Remote Domain Setup for Interdomain Federation through Intradomain Federation Connections on Microsoft Servers

IM and Presence Service users can communicate with external domains using either the existing Skype for Business/Lync/OCS interdomain federation connections or using connections to those external domains that you configure directly on IM and Presence Service.

When you configure interdomain federation through existing Microsoft server intradomain federation connections, all requests to the remote domain are routed through the SIP interface between IM and Presence Service and the Microsoft server. You must configure the remote domain on IM and Presence Service to be a Microsoft server SIP Federation domain before you proceed to configure interdomain federation through existing intradomain federation connections. Do this for each remote domain.

See procedures related to adding a SIP federated domain in the *Interdomain Federation for IM and Presence Service on Cisco Unified Communications Manager* for detailed instructions on how to configure a SIP federation domain.

Choose the following options when you configure a SIP Federation domain for interdomain federation using existing intradomain connections that are configured on Microsoft servers:

- For Domain Name, enter the remote domain.

- For Integration Type, choose **Inter-domain to OCS/Lync**

- Ensure that **the Direct Federation** check box is checked.

**Note** If you have a multicluster deployment, you must perform this procedure on each cluster. These settings are cluster-wide; therefore you need to set them only on theIM and Presence Service database publisher node within any given cluster.

**What To Do Next**

**Related Topics**

Interdomain Federation for IM and Presence Service on Cisco Unified Communications Manager Integration Troubleshooting

# Configure a Static Route for a Remote Domain

When you integrate IM and Presence Service with Skype for Business/Lync/OCS interdomain federation capability, you must configure static routes on IM and Presence Service for each remote domain.

**Caution** Email address for federation is not supported in deployments where partitioned intradomain federation is configured. Email address for federation is also not supported for interdomain federation if your deployment uses the interdomain federation capabilities of Microsoft servers. Confirm that email address for federation is not enabled anywhere in the deployment in these deployment scenarios.

For Standard Edition Microsoft servers, the static routes must point to the IP address of a specific Standard Edition server.

For Enterprise Edition Microsoft servers, the static routes must point to a specific Enterprise Edition front-end server.

If you are using a Microsoft server's front-end load balancer, note the following:

- See the following URL for a list of load balancers: http://technet.microsoft.com/en-us/office/ocs/cc843611. It is your responsibility to ensure that those load balancers are deployed and managed correctly. Cisco does not support the configuration of static routes to point to such load balancers.
- Cisco recommends that you configure static routes to bypass the front-end load balancer.

For High Availability purposes, you can configure additional backup static routes for each remote domain. The backup route has a lower priority and is used only if the next hop address of the primary static route is unreachable.

**Note** If you have a multicluster deployment, you must perform this procedure on each cluster. These settings are cluster-wide; therefore you need to set them only on the IM and Presence Service publisher node within any given cluster.

**Procedure**

| | |
|---|---|
| **Step 1** | Lin to the **Cisco Unified Communications Manager IM and Presence Administration** user interface. Choose **Presence** > **Routing** > **Static Routes**. |
| **Step 2** | Click **Add New**. |
| **Step 3** | Enter the destination pattern value so that the domain, or FQDN, is reversed. For example, if the domain is remote.com, the Destination Pattern value must be .com.remote |
| **Step 4** | Choose **domain** for the Route Type. |
| **Step 5** | In the Next Hop field, enter the IP address of the next hop. |
| **Step 6** | Set the Next Hop Port and the Protocol Type as follows: |

- For TLS Encryption:

    - Next Hop Port number is **5061**

    - Protocol Type is **TLS**

- For TCP:

    - Next Hop Port number is **5060**

    - Protocol Type is **TCP**

| | |
|---|---|
| **Step 7** | Enter the Priority value as follows: |

- For primary static routes, enter the default Priority value of **1**.

- For backup static routes, enter a Priority value of greater than 1. (The lower the value, the higher the priority of the static route.)

| | |
|---|---|
| **Step 8** | Leave the default values for all other parameters. |
| **Step 9** | Click **Save**. |

**Related Topics**

Integration Troubleshooting

# Remove IM and Presence Service Integration with Microsoft Server Interdomain Federation Capability

At some stage, you may want to configure IM and Presence Service for interdomain federation with one of the remote domains that you previously configured on Skype for Business/Lync/OCS. The most likely scenario for this is when all Microsoft Lync or Microsoft Office Communicator users have been migrated to IM and Presence Service. At this point, the Microsoft server deployment can be shut down, and any interdomain federation capability can instead be enabled directly from IM and Presence Service.

To remove an IM and Presence Service integration with Microsoft server interdomain federation capability, you must complete Remove Static Route for Remote Domain, on page 5 and Remove the SIP Federation Domain, on page 5.

# Remove Static Route for Remote Domain

**Procedure**

**Step 1** Log in to the **Cisco Unified IM and Presence Administration** user interface. Choose **Presence** > **Routing** > **Static Routes**.

**Step 2** Choose the appropriate static route from the list provided. If no list is shown, click **Find**.

**Step 3** Click **Delete Selected**.

**Step 4** Click **OK** to confirm the deletion.

**What to do next**

# Remove the SIP Federation Domain

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**Note** If you have a multicluster deployment, you must perform this procedure on each cluster. These settings are cluster-wide; therefore you need to set them only on the IM and Presence Service database publisher node within any given cluster.

**Procedure**

**Step 1** Log in to the **Cisco Unified IM and Presence Administration** user interface. Choose **Presence** > **Inter-Domain Federation** > **SIP Federation**.

**Step 2** Choose the domain from the list provided. If no list is shown, click **Find**.

**Step 3** Click **Delete Selected**.

**Step 4** Click **OK** to confirm the deletion.

**What to do next**

After you remove the static route to the remote domain and remove the SIP federation domain, you can proceed to configure IM and Presence Service for interdomain federation with the remote domain. See *Interdomain Federation for IM and Presence Service on Cisco Unified Communications Manager* for more information.