Lync Federation Guide
Technical Documentation for enabling Lync Federation to the BlueJeans Network
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BlueJeans' Lync/Skype for Business integrations provides bi-directional content sharing, video and audio between Microsoft Lync or Skype For Business, H.323/SIP based Video Room Systems, Cisco Jabber, PSTN, and mobile endpoints in enterprises with Microsoft® Lync™ Server 2013/2010, OCS 2007 R2 and Microsoft Office365 deployments.

The following document is intended to provide detailed steps to federate with the BlueJeans Lync server.

BlueJeans Supported Lync Environments & Clients

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Federation Checklist

1. Enable Lync on BlueJeans account
   Your BlueJeans Administrator can enable Lync through the BlueJeans Group Admin interface.

2. Federate with BlueJeans
   If your Lync deployment is not configured as open federation, you will need to add lync.bluejeans.com among your list of federated partners.

3. Ensure you have a publicly issued certificate installed on the Edge server.

4. Ensure firewall allows ports in both directions only towards below BJNIP space:
   199.48.152.0/22, 31.171.208.0/21, 103.20.59.0/24, 103.255.54.0/24, 8.10.12.0/24 & 165.254.117.0/24

   - TCP Port  5061 - Lync federation and SIP/TLS connection.
   - UDP Ports 50000-59999 - RTP Media
   - TCP Ports  50000-59999 - RTP Media

[Note: The reason why above requirements are different from Microsoft’s is because BJN do not use the A/V Edge service; we only use the Access Edge service for SIP traffic federation. Microsoft]
uses a proprietary method of tunneling media between federated A/V Edge services on 3478 for UDP and 443 for TCP that BlueJeans do not support. We require that they allow bidirectional traffic for above combinations of IPs and port ranges, to allow the initial SIP call setup for Media connectivity. If the Admin has Firewall rules that allow inbound traffic when there is symmetric (same pair of IPs and ports) traffic flowing in the outbound direction, then that should not require opening ports inbound.

5. Ensure you have updated SRV record for your Lync SIP domain.

**Federation for Lync 2013**

To initiate federation between your Lync server 2013 and BlueJeans follow these steps:

1. **Login to the Lync Front End or Standard Edition Server and open the Lync Control Panel by going to Start > All Programs > Microsoft Lync Server 2013 > Lync Server Control Panel**

![Figure 1 – Access Lync Server Control Panel (in Windows 2013 Server)](image)

2. **On the Lync server control panel enable federation at a global level by going to: Federation and External Access -> External Access Policy and seeing if Federated User Access is checked. If not, enable Federated user access by clicking on Edit > Show Details and check Enable Communications with Federated users. See Figure 2.**
3. To enable federation at a system level, select *Access Edge Configuration* from the top navigation.

4. Under *Edit Access Edge Configuration*: Select *Enable federation* and *Enable partner domain discovery*. See Figure 3.

5. To add the BlueJeans Lync domain, go to *SIP Federated Domains* from top navigation.

6. Now add a new domain pointing to `lync.bluejeans.com` and edge server pointing to `sip.lync.bluejeans.com` FQDN.
Federation for Lync 2010

To initiate federation between your Lync server 2010 and BlueJeans follow these steps:

1. Login to the Lync Front End or Standard Edition Server and open the Lync Control Panel by going to Start > All Programs > Microsoft Lync Server 2010 > Lync Server Control Panel

2. On the Lync server control panel enable federation at a global level by going to: External
User Access -> External Access Policy and seeing if Federated User Access is checked. If not, enable Federated user access by clicking on Edit > Show Details and check Enable Communications with Federated users. See Figure 6.

![Figure 6 – External Access Policy](image)

3. To enable federation at a system level, select Access Edge Configuration from the top navigation.

4. Under Edit Access Edge Configuration: Select Enable federation and Enable partner domain discovery. See Figure 7.

![Figure 7 – Access Edge Configuration](image)

5. To add the BlueJeans Lync domain, go to Federated Domains from top navigation.
6. Now add a new domain pointing to lync.bluejeans.com and edge server pointing to sip.lync.bluejeans.com FQDN.

**Figure 8 – Federated Domains**

**Federation for Office365 Enterprise (E Plans)**

To initiate federation between your Lync server 2010 and BlueJeans follow these steps:

1. Login to the Office365 portal as an Admin and access the Lync Settings by clicking on Manage under Lync settings.
2. On the Lync Online Control Panel, ensure Domain federation is set to Enabled. If it is Disabled, go to Domain Federation > Edit and then enable federation by selecting either Turn on external communications with all except blocked domains (Open Federation) or Turn off external communications with all except allowed domains, in which case you need to allow the BlueJeans Lync domain as shown in Figure 10.

3. If the option to Turn off external communications with all except allowed domains was selected, add the BlueJeans Lync domain by clicking on add a domain and entering the domain as lync.bluejeans.com. See Figure 11.

4. Once enabled, the domain will show up as allowed on the Domain Federation tab. See Figure 12.
Figure 12 – External Communications: Domain added

5. Ensure each user is setup for Lync Federation calls by going to Users > Edit User Settings, select a user and ensure the Lync Users in other organizations box is checked. See Figure 13.

Figure 13 – Lync Users in other organizations

**Federation for Office365 Small Business (P Plans)**

*Microsoft Office365 Small Business Plans (P1 or P2 Plan) are by default set to open federation.*

To initiate federation between your Lync server 2010 and BlueJeans follow these steps:

1. Login as an Admin to the Office365 online portal and click on General Settings under Lync.
2. Ensure External Communications is set to **Enabled** on the Lync Online Control Panel.

Federation for OCS 2007 R2

To initiate federation between your Office Communications Server (OCS) 2007 R2 and BlueJeans follow these steps:

Pre Requisites:
- OCS 2007 R2 deployed & operational
- OCS Edge server has been configured to use in this deployment
• Ensure you have installed Administrative tools on the Edge server

1. Launch the setupse/setuppee file from the OCS CD which is located at \setup\amd64
3. Open Computer management by clicking on start and type “Computer Management”
4. Install Administrative tools. See Figure 16.

Figure 16 – Install Administrative Tools
5. Expand Services and Applications. Right click on Office Communicator Server then click Properties.
6. Add the BlueJeans domain to be federated (Figure 15). Follow steps below.
   a. Go to Allow tab
   b. Click Add
   c. Enter the Federated partner domain name as lync.bluejeans.com and Federated partner Access Edge Server as sip.lync.bluejeans.com.
   d. Click OK.
   e. Click OK again.

![Figure 19 – Add Federated Partner](image)

**For more information on Federation:**

Refer to Microsoft’s online documents:


**How do I contact Support at BlueJeans?**

You can reach us at support@bluejeans.com with any questions you have about Federation with the BlueJeans cloud.