

Changing SIP Transport from MTLS - SRTP to TCP - RTP

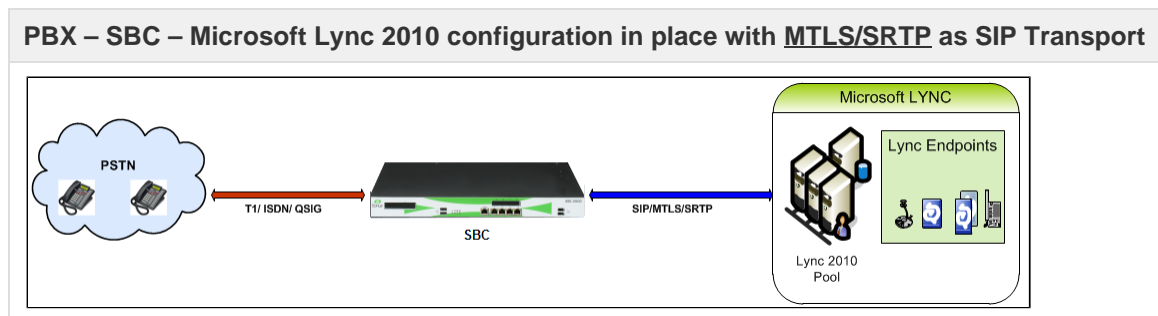
This article describes the steps necessary to modify the SBC Edge (SBC) configuration such that the SIP Transport is changed from TLS/SRTP (MTLS/SRTP) to TCP/RTP.

For the purposes of this article it is assumed that **PBX – SBC – Microsoft Lync 2010** configuration is in place already with MTLs/SRTP as SIP Transport.

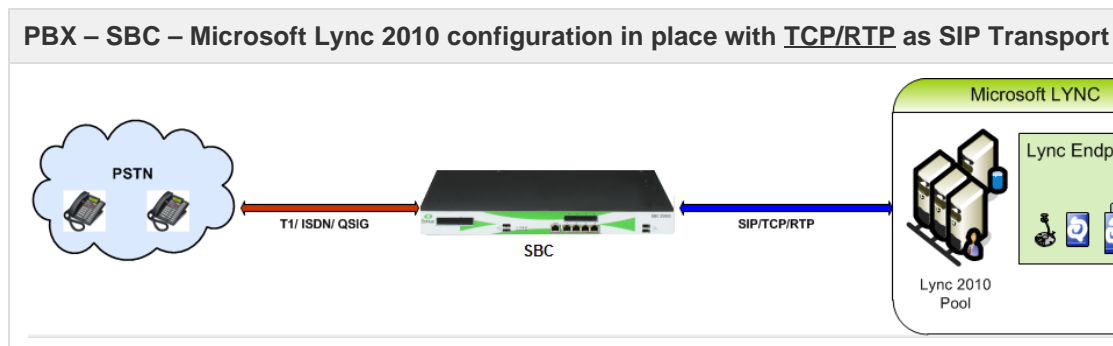
The process requires changes on both the SBC and on the Lync Server. The six steps to accomplish the change are:

1. Edit the appropriate Signal Group on the SBC.
2. Edit the appropriate Media List on the SBC.
3. Edit the appropriate SIP Server Table on the SBC.
4. Edit the port and protocol settings on the Lync Server.
5. Publish the altered topology
6. Stop/Restart the Lync Mediation Server service.

Topology Before



Topology After



- SBC Configuration Changes
 - SIP Signaling Group
 - Media List
 - SIP Server Table
- Lync Changes (Topology Builder)
 - PSTN Gateway Properties Change
 - Publish Topology
- Lync Mediation Server Service Restart

SBC Configuration Changes

SIP Signaling Group

1. In the WebUI, click the **Settings** tab.
2. In the left navigation pane, go to **Signaling Groups > (relevant SIP Signaling Group)**.
3. Change the **Listening Ports** configuration to 5068, as shown below.
4. Change the **TLS Profile ID** to N/A.

Figure 1: SIP Signaling Group Before

BEFORE (when the config is MTLS/SRTP)

The screenshot shows the 'Signaling Group Table' with the following data:

Type	Description	Adm
SIP	Lync Mediation server	✓
SIP	SIP Trunk	✓
SIP	SIP Reg	✓
SIP	Test	✓
SIP	SBA: UC Mediation	✓

The 'Listen Ports' section shows a table with the following data:

Port	Protocol	TLS Profile ID
5067	TLS	SBA: Lync 2010 TLS

Figure 2: SIP Signaling Group After

AFTER (when the config is TCP/RTP)

The screenshot shows the 'Signaling Group Table' with the following data:

Type	Description	Adm
SIP	Lync Mediation server	✓
SIP	SIP Trunk	✓
SIP	SIP Reg	✓
SIP	Test	✓
SIP	SBA: UC Mediation	✓

The 'Listen Ports' section shows a table with the following data:

Port	Protocol	TLS Profile ID
5068	TCP	N/A

Media List


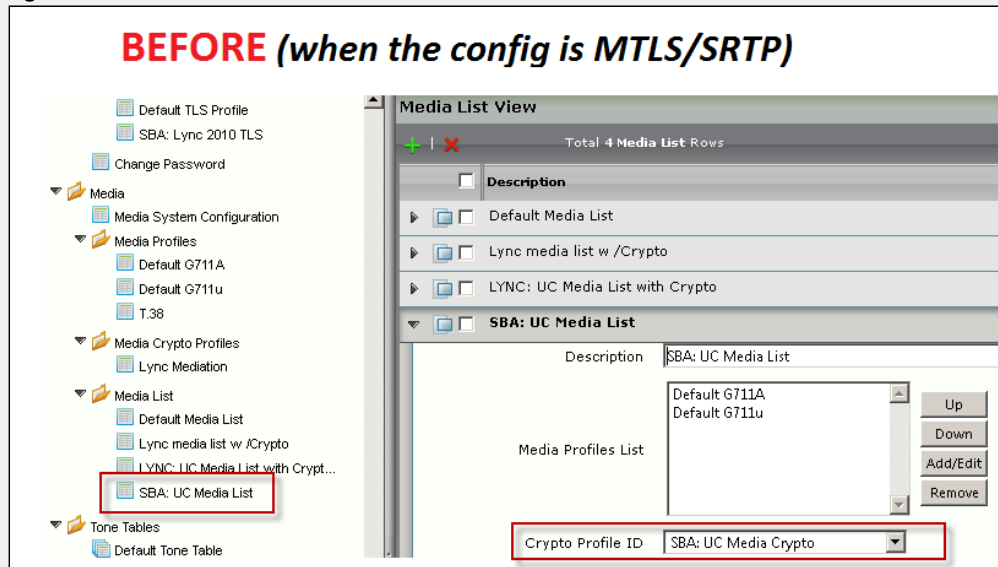
1. In the WebUI, click the **Settings** tab.
2. In the left navigation pane, go to **Media > Media List > (relevant media list entry)**.
 This is the Media List specified in the SIP Signaling Group above.
3. Change the **Crypto Profile ID** value to **None** as shown below.

Figure 3: Media List Before

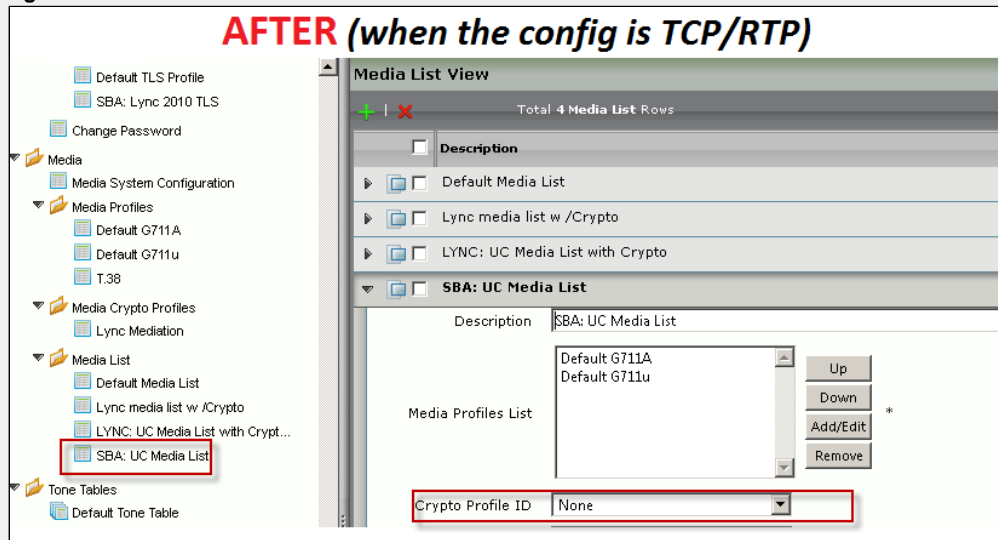
BEFORE (when the config is MTLS/SRTP)



The screenshot shows the 'Media List View' for 'SBA: UC Media List'. The 'Crypto Profile ID' dropdown is set to 'SBA: UC Media Crypto'. The 'Media Profiles List' contains 'Default G711A' and 'Default G711u'. The 'Description' field is 'SBA: UC Media List'.

Figure 4: Media List After

AFTER (when the config is TCP/RTP)



The screenshot shows the 'Media List View' for 'SBA: UC Media List'. The 'Crypto Profile ID' dropdown is now set to 'None'. The 'Media Profiles List' contains 'Default G711A' and 'Default G711u'. The 'Description' field is 'SBA: UC Media List'.

SIP Server Table

1. In the WebUI, click the **Settings** tab.
2. In the left navigation pane, go to **SIP > SIP Server Tables >(relevant SIP Server Table Entry)**.

3. Change the **Port** value to 5068, as shown below.
4. Change the **Protocol** value to TCP, as shown below.

Figure 5: SIP Server Table Before

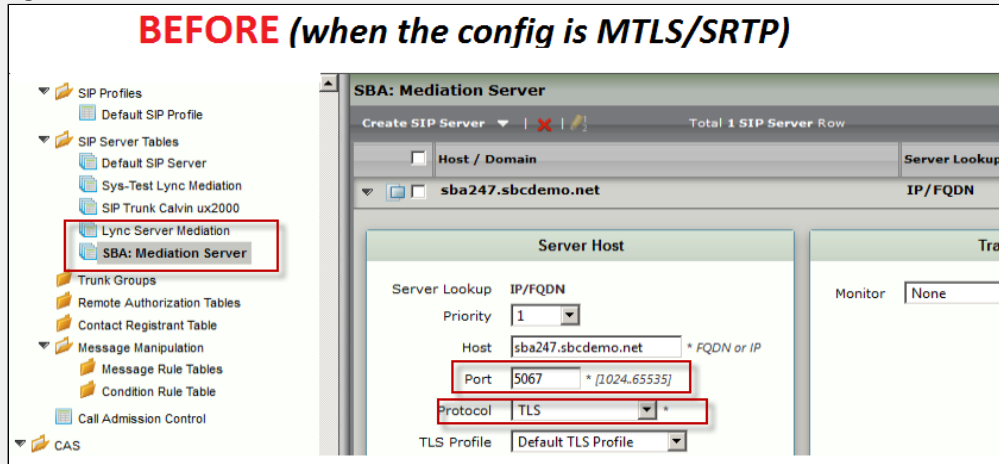
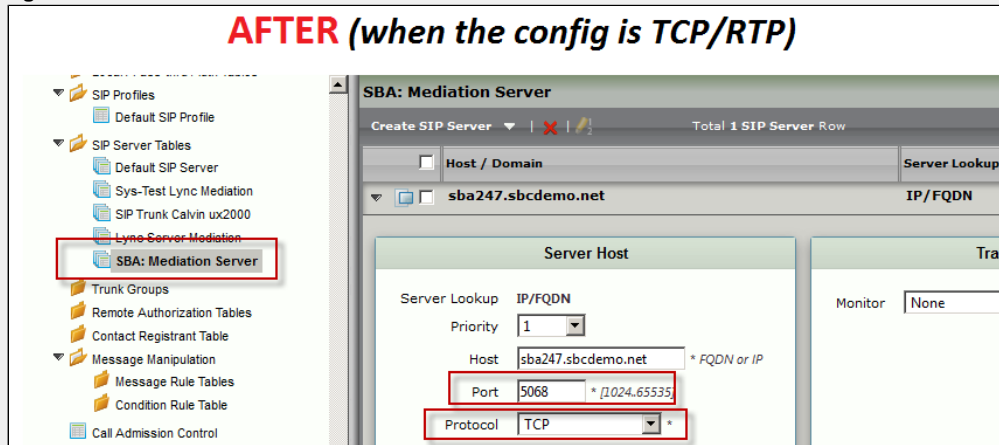


Figure 6: SIP Server Table After

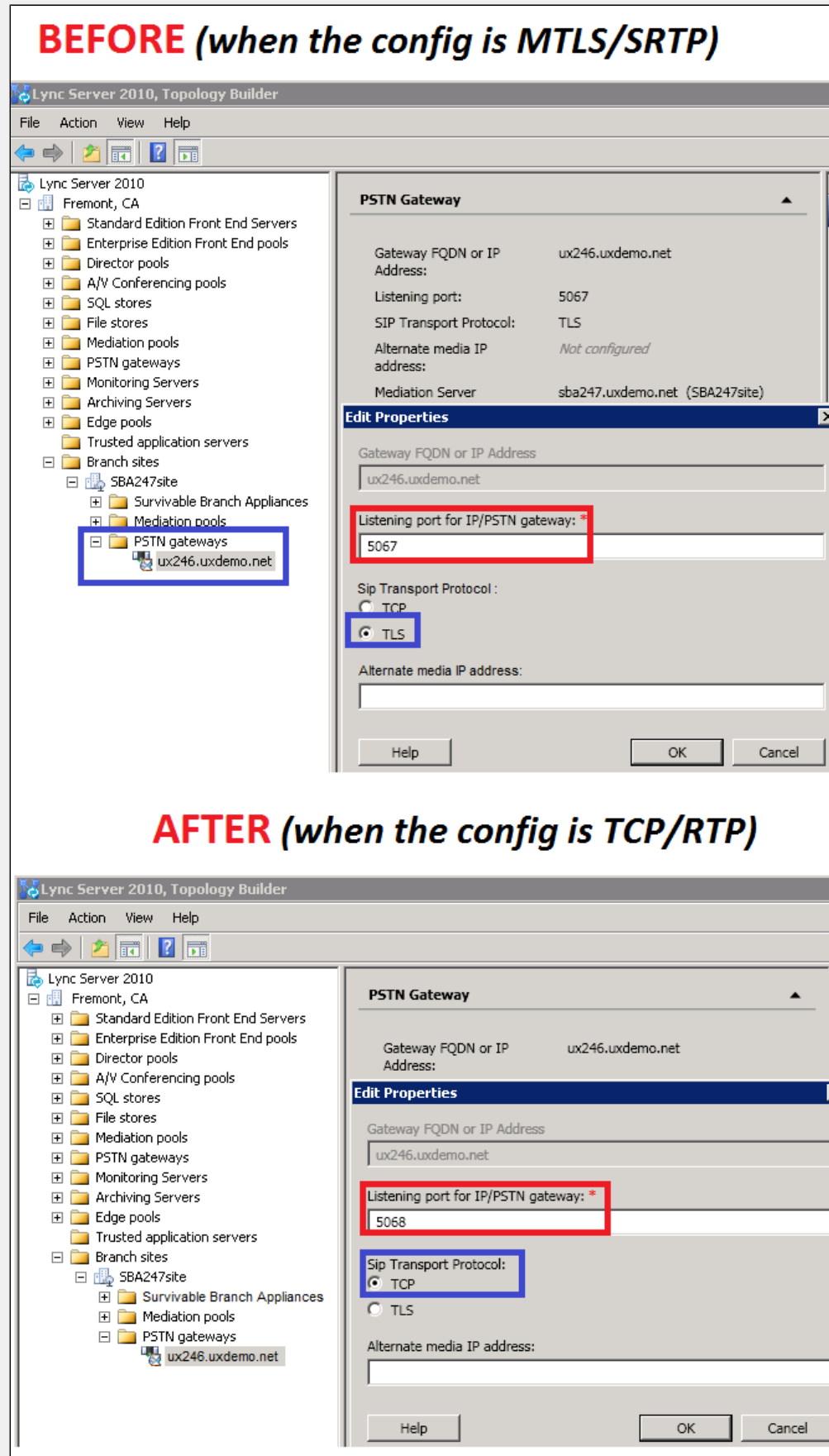


Lync Changes (Topology Builder)

PSTN Gateway Properties Change

1. Log into the Lync front end server PC.
2. Launch the **Lync Server 2010 Topology Builder**.
3. In the Navigation Tree, go to **Branch Sites > PSTN gateways > (relevant SBC entry)**.
4. Right-click the relevant SBC.
5. Select **Edit Properties...**
6. Change the **Listening Port for IP/PSTN gateway** to 5068, as shown below.
7. Change the **SIP Transport Protocol** to TCP, as shown below.
8. Click **OK**.

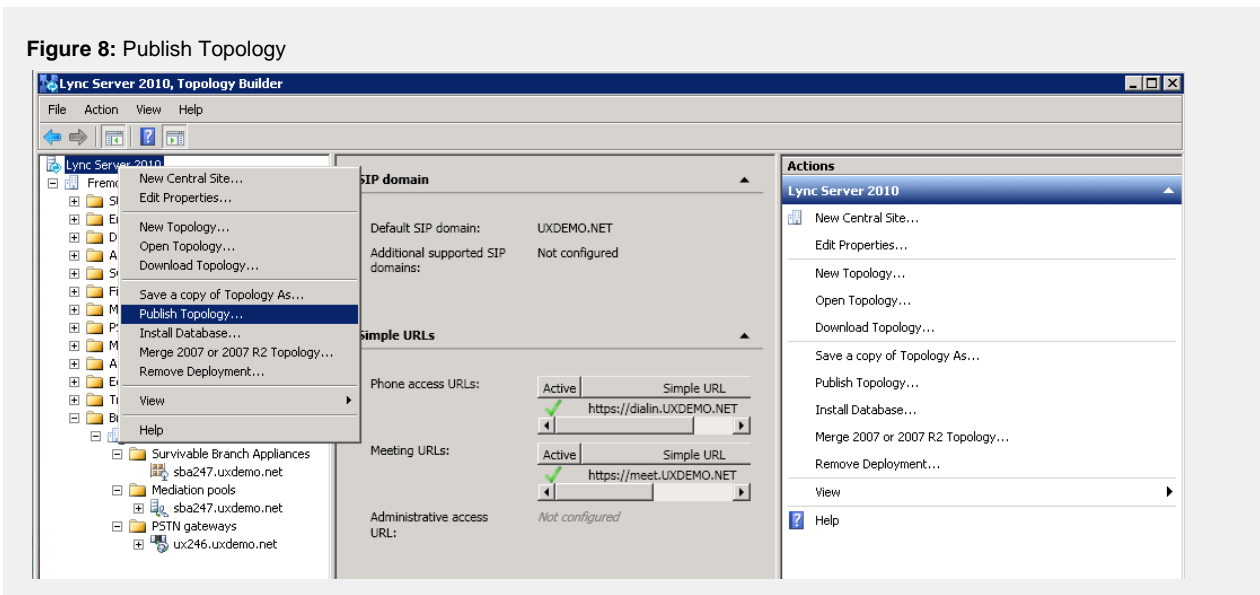
Figure 7: PSTN Gateway Properties Change



Publish Topology

To publish the topology:

1. In the Topology Builder navigation tree, right-click **Lync Server 2010**.
2. Select **Publish Topology....**



Lync Mediation Server Service Restart

1. Launch the **Lync Server 2010 Configuration** page
 - a. In your browser, go to (the FQDN of the front end pool//cscp).
2. Select the *Mediation Server in the Service list.
3. Select **Stop service** from the **Action** drop-down list, as shown below.
4. Select **Start service** from the **Action** drop-down list, as shown below.

