Integration of Lync2010 and MyPBX

Version: 1.0

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1. Introduction

Brief introduction of the Lync server installed, and the target achieved in this manual.

Brief Introduction:

This is a standard version of Lync installed in windows 2008 R2 enterprise (64bit). It requires two computers to install, one for DC and the other one for Lync. Because only TCP/TLS is supported by Lync, which doesn't match the general trunks we get like pstn/sip(udp)/BRI/GSM or others, a translator like MyPBX is needed.

Basic Information:

IP of DC: 192.168.5.221
IP of Lync: 192.168.5.222
IP of MyPBX: 192.168.5.101
FQDN: lync.server.com(Front end server, SQL and mediation pool are installed here)
Account: harryhua, extension:128888,UPN:harryhua@server.com
extension range in MyPBX:500-510
default TCP port: 5060 (MyPBX), 5068(Lync)

Target:

1. Making internal calls between MyPBX and Lync server by dialing extension number directly without'+'.
2. Making outbound calls from Lync via the pstn trunk of MyPBX directly
3. Making inbound calls from PSTN trunk and then dial the number of Lync extension number after the second dial tone

2. Create topology to MyPBX and publish it

Open the topology you have got from the builder. If you haven't got one, please create and publish it successfully before adding a new gateway.

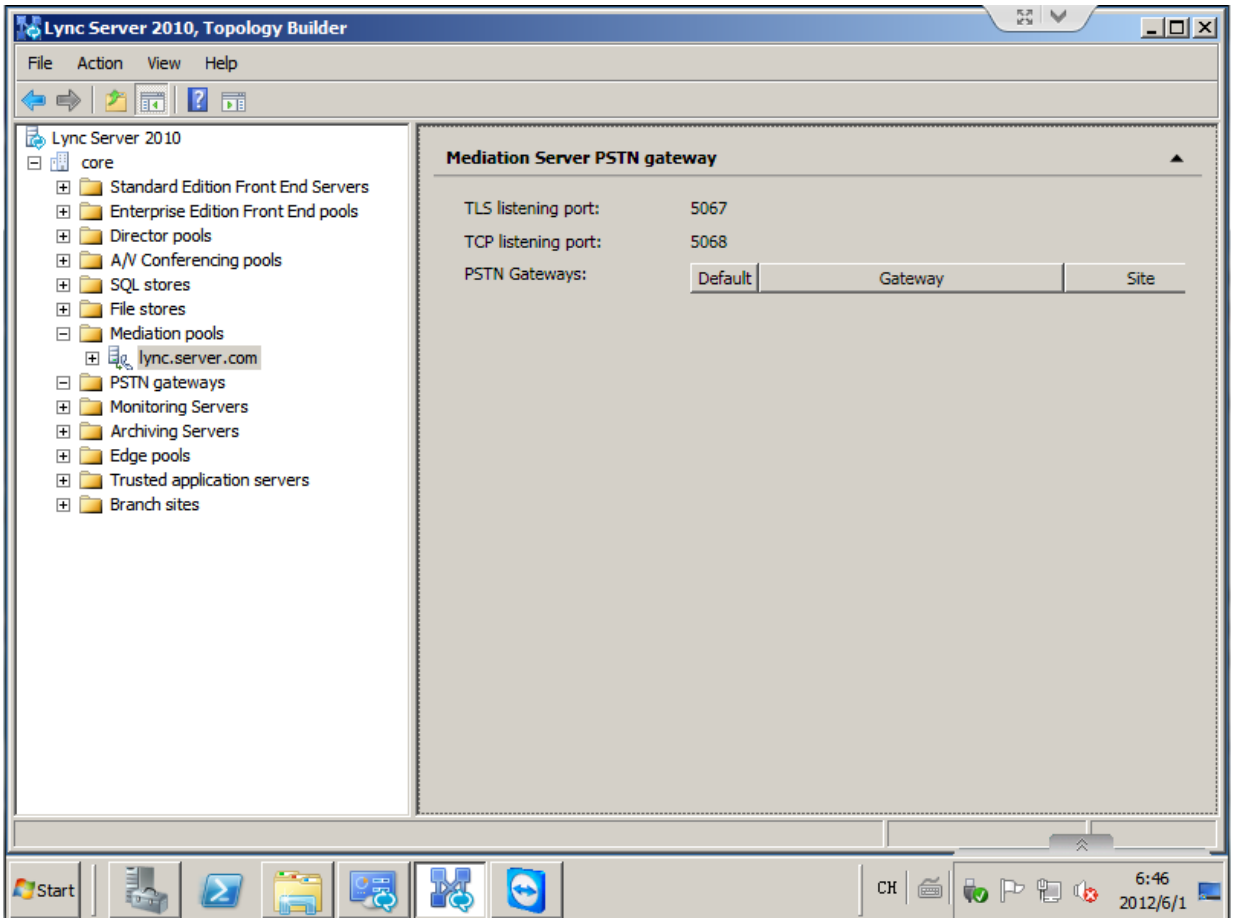

Figure 2.1

Right click ' lync.server.com' and choose edit.

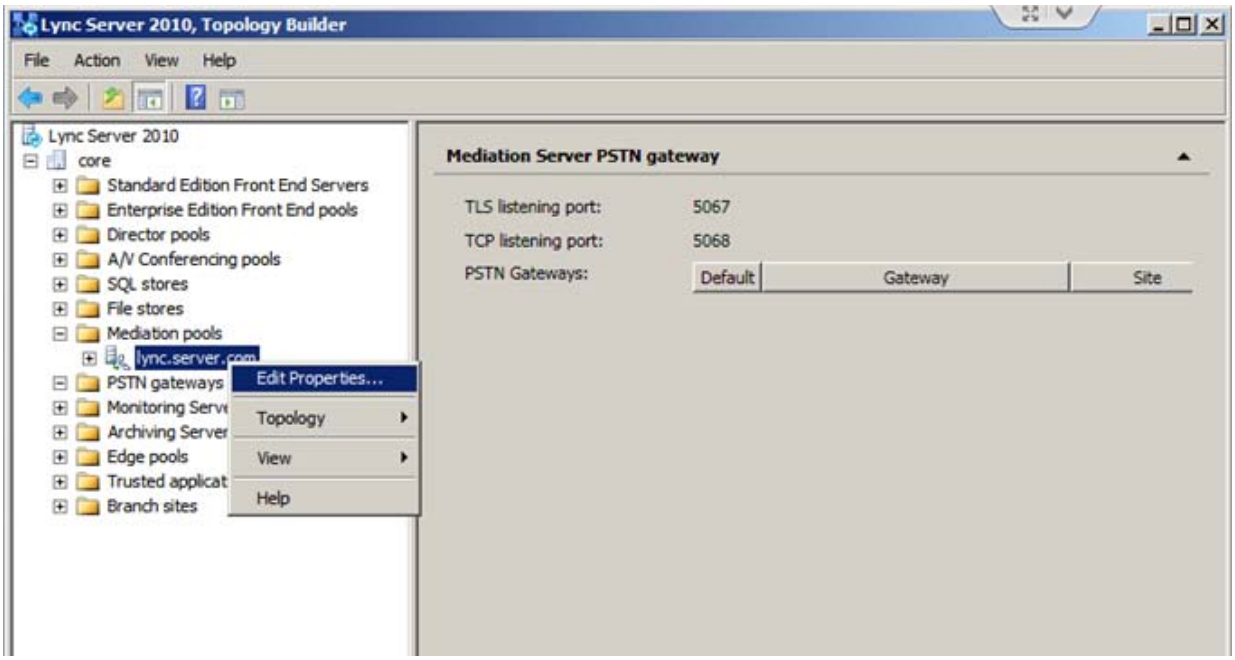

Figure 2.2

Click 'new' to add a pstn gateway to MyPBX

Note: make sure TCP is enabled in MyPBX in 'sip settings' page, which is disabled by default

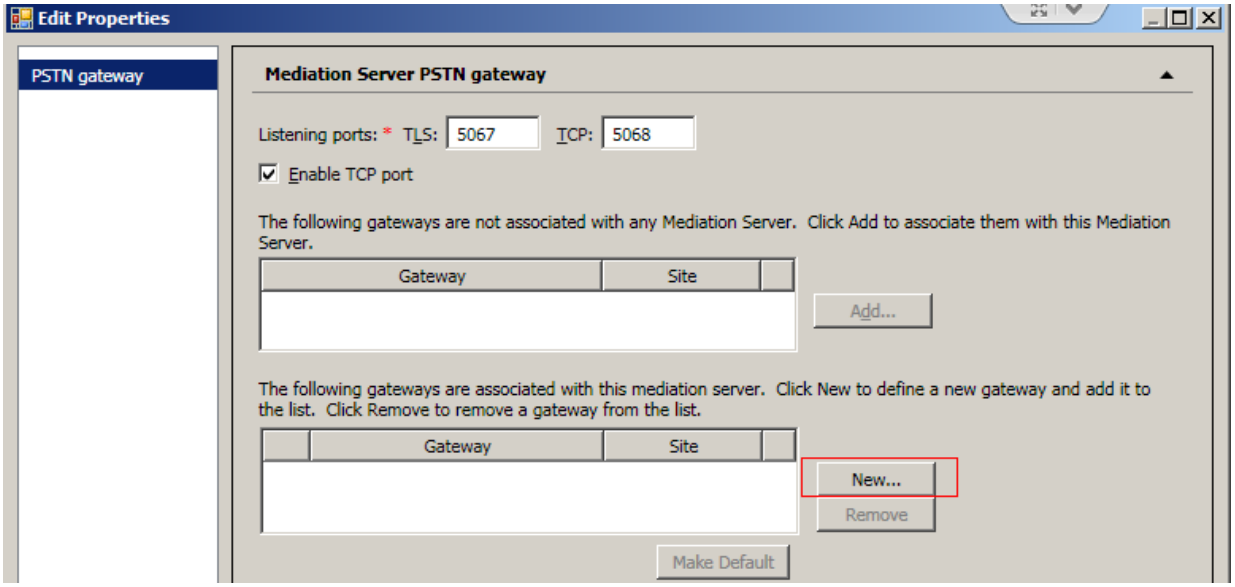

Figure 2.3

Input the IP of MyPBX(192.168.5.101 in this example), port(5060), click TCP as protocol, then click 'ok'

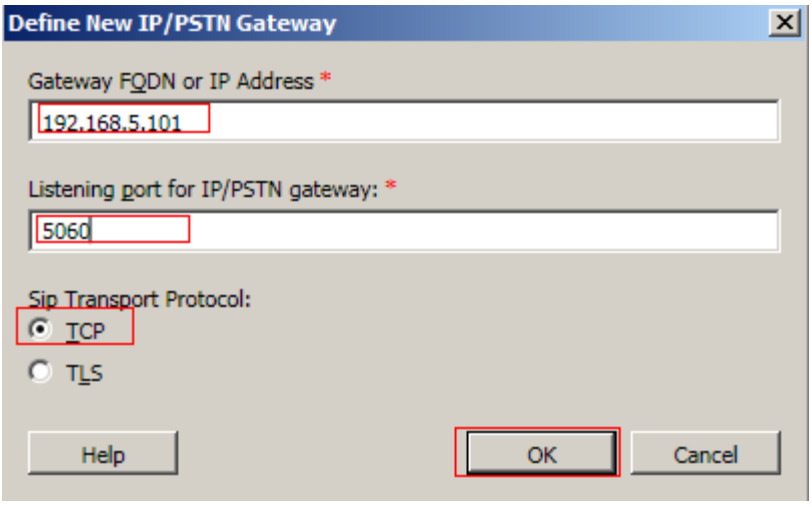

Figure 2.4

Click 'ok' again to save it.

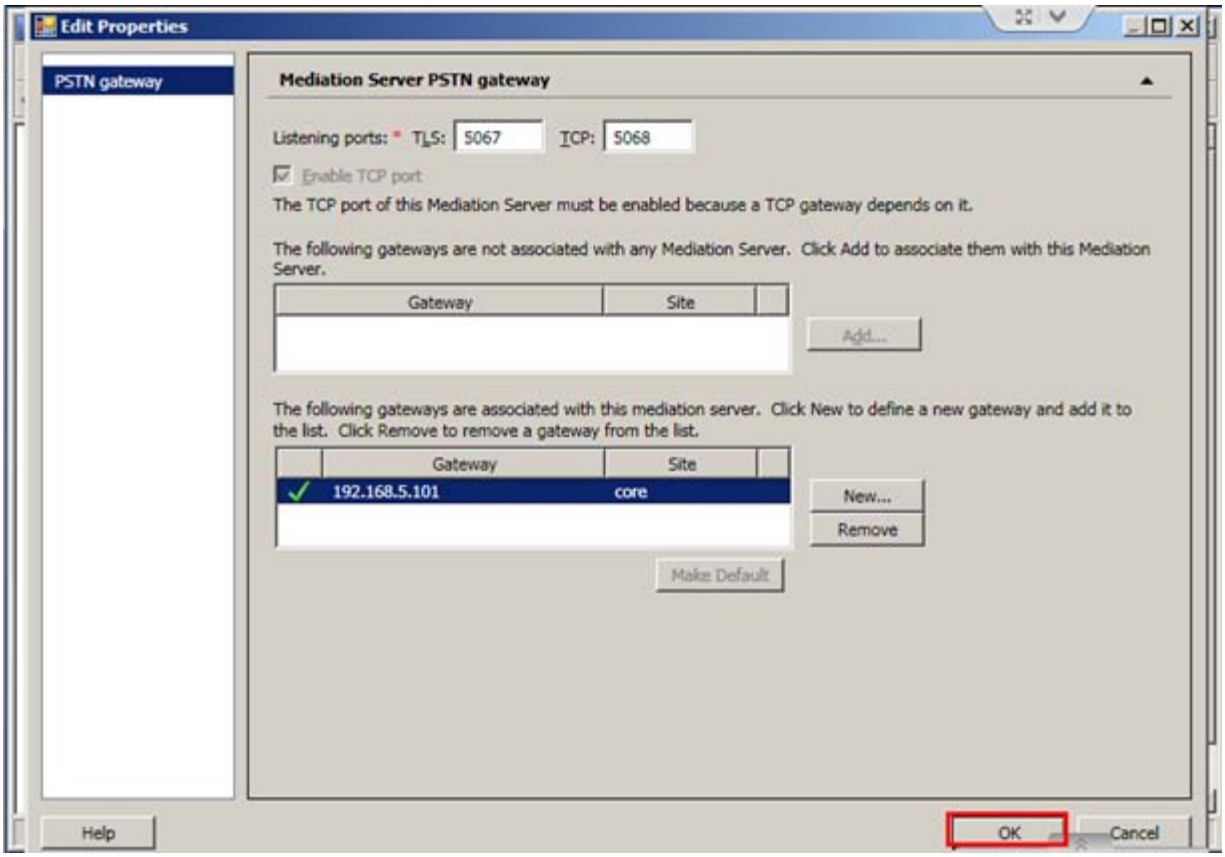

Figure 2.5

Then you can see a new gateway, right click and publish it. Click 'finish' for ending

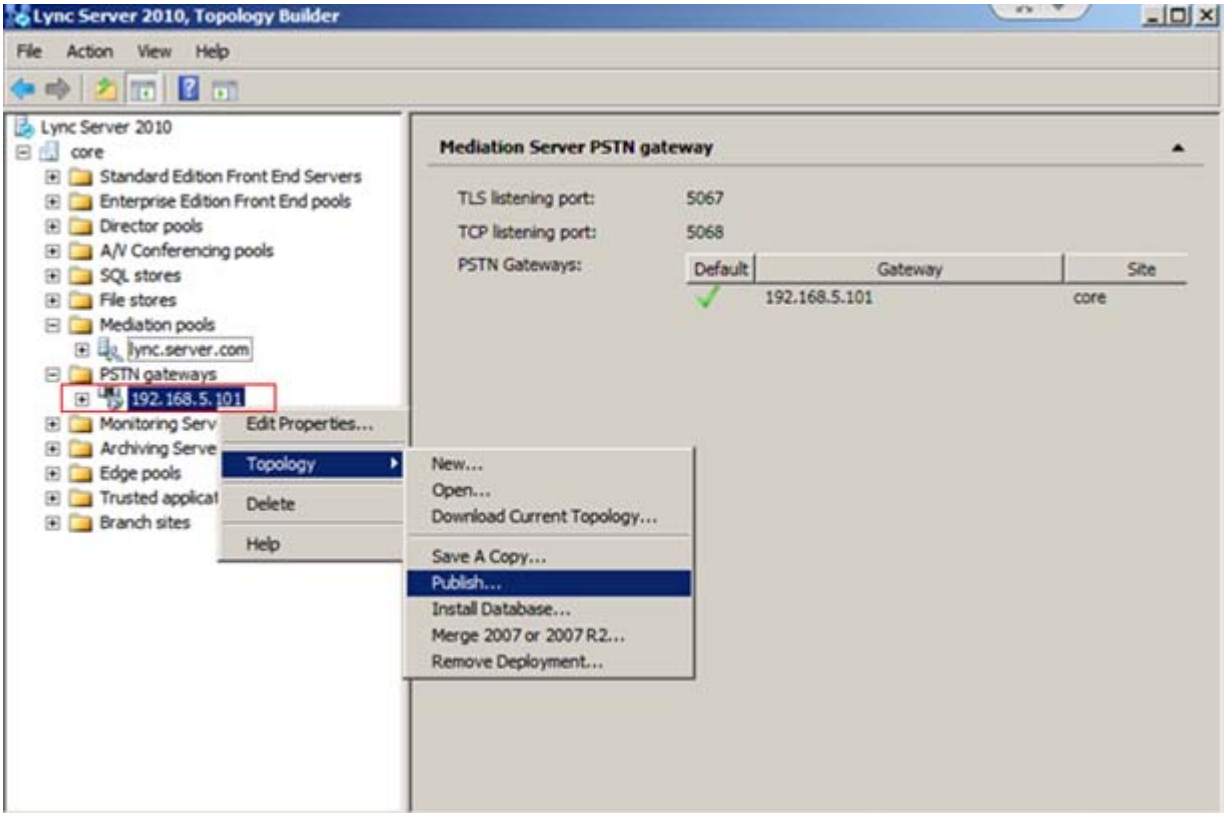

Figure 2.6

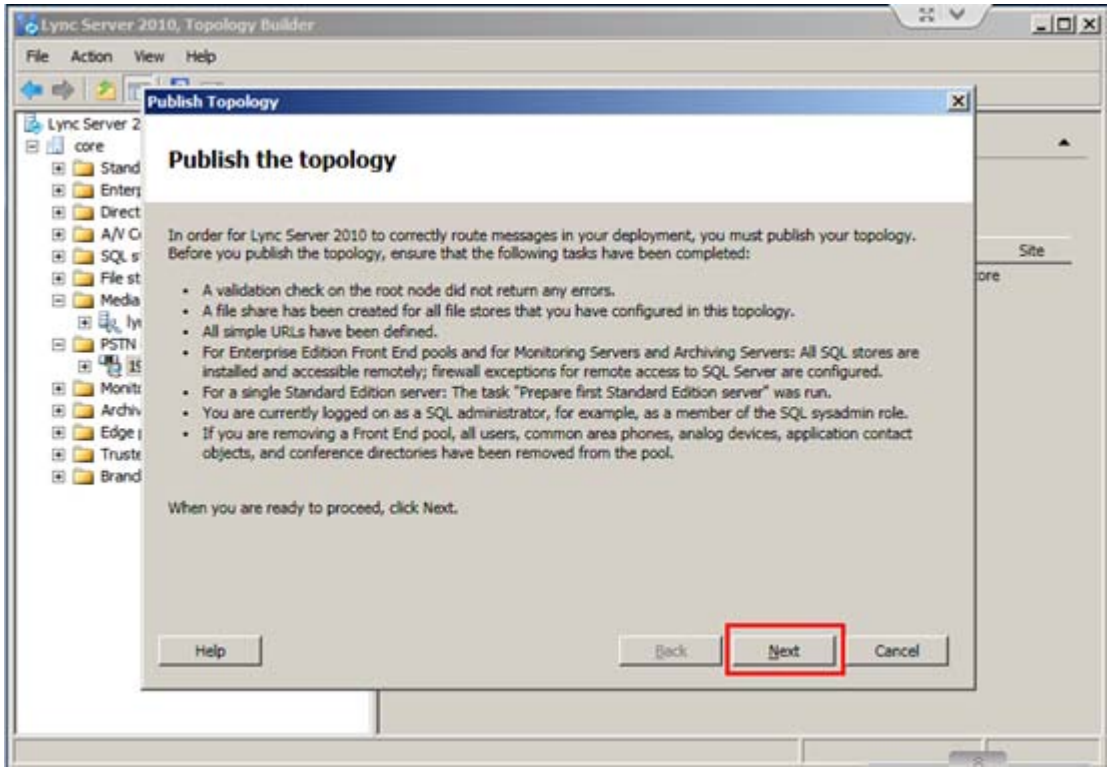

Figure 2.7

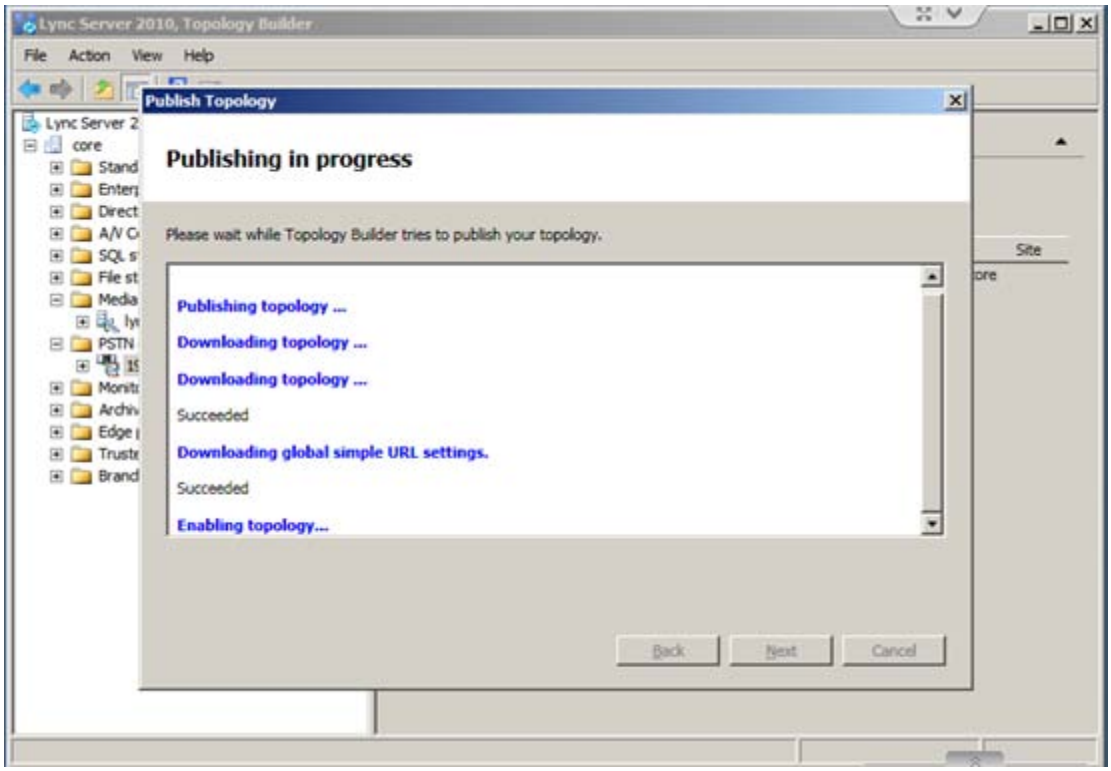

Figure 2.8

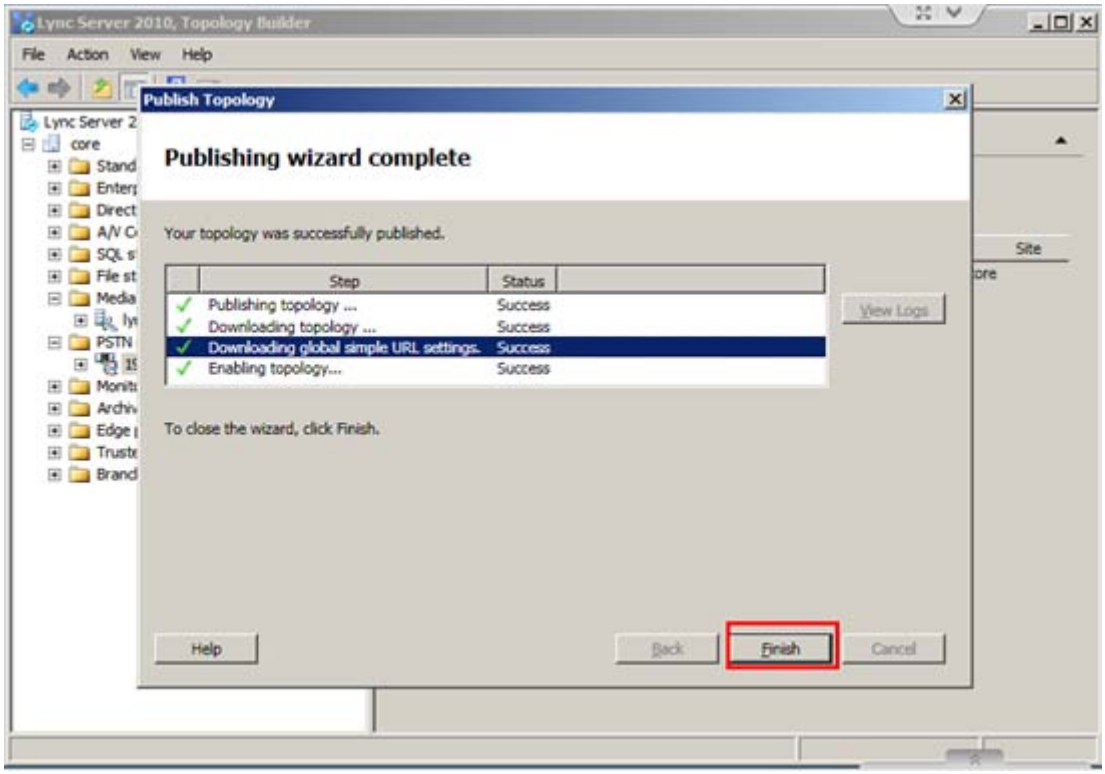

Figure 2.9

3. Enable lync account

Note: please create your account in DC first before adding it into Lync server

Enable lync account in 'lync server 2010 control panel'
Open 'lync server control panel' and log in

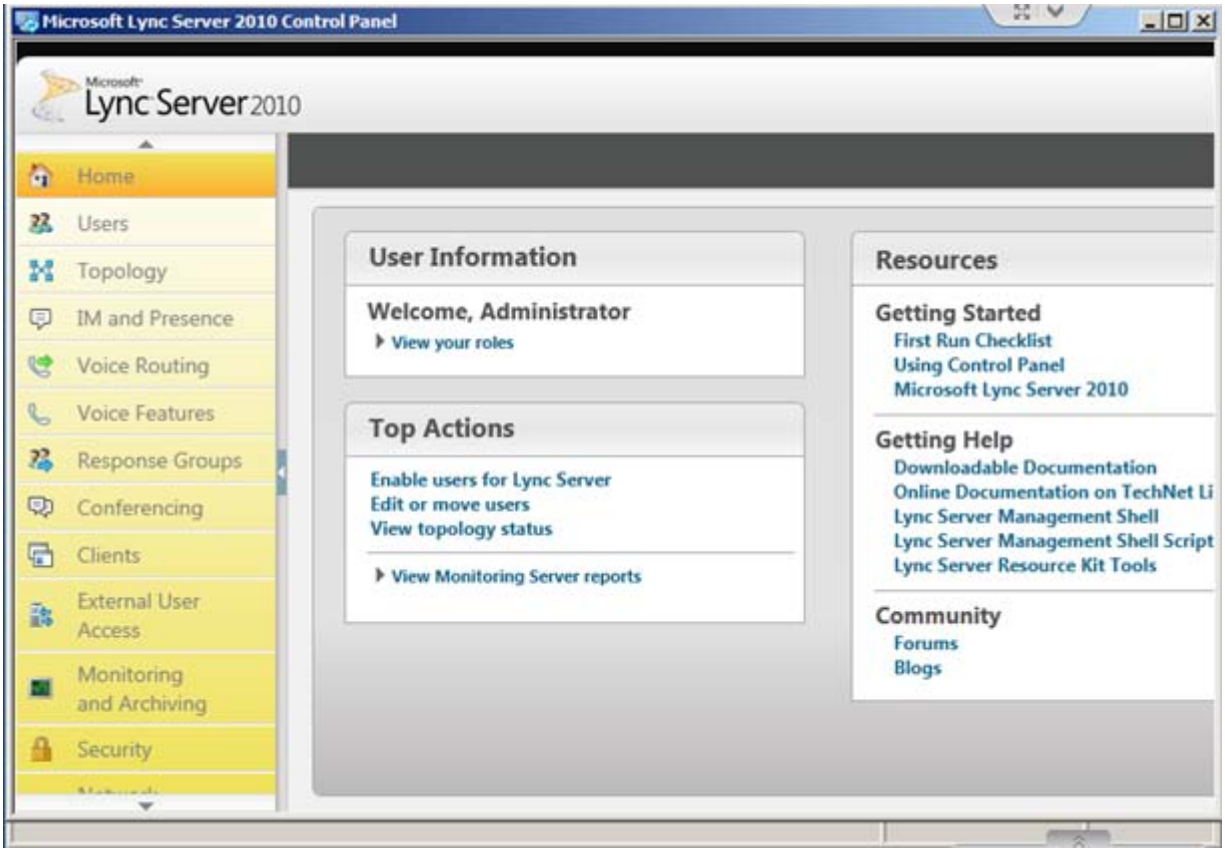

Figure 3.1

Click 'users' to enable the account and spare a number to him, in my example,
User: harryhua
The number is: +128888
Click 'enable users' to start:

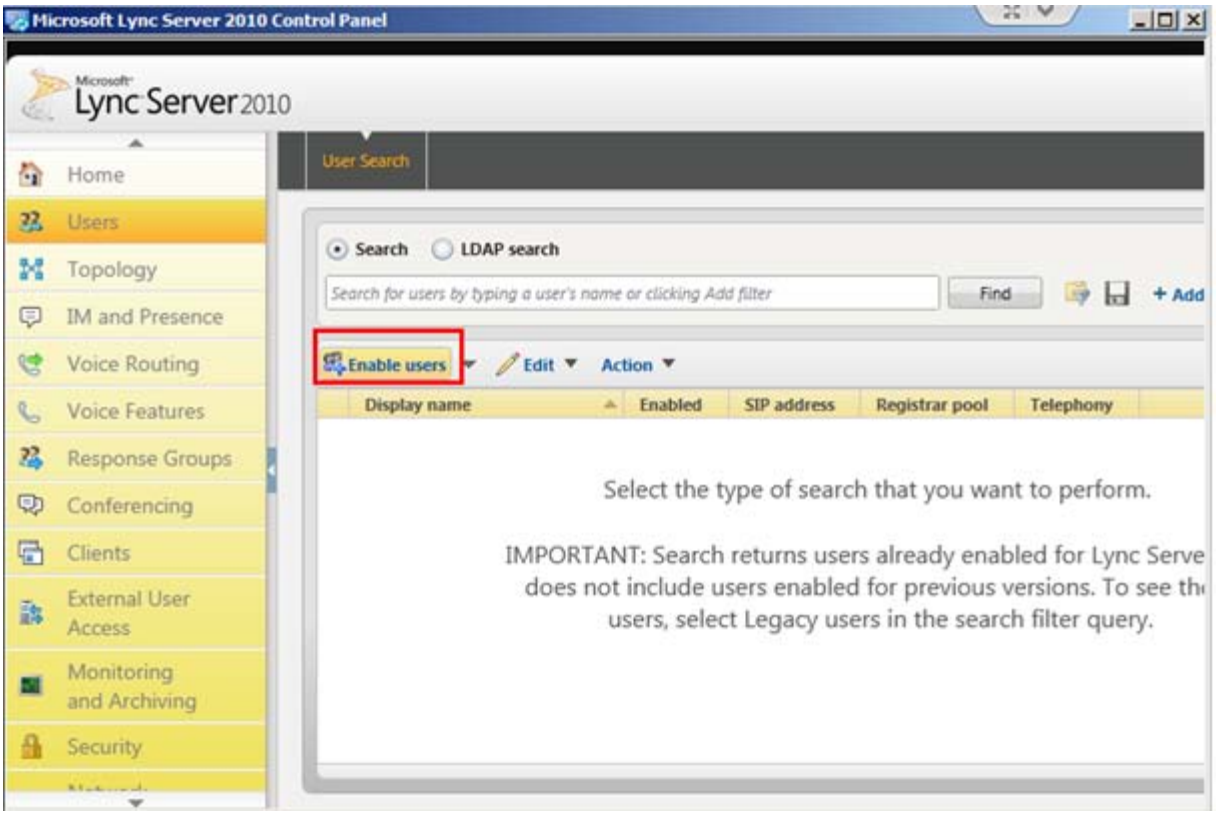

Figure 3.2

Click ' add'

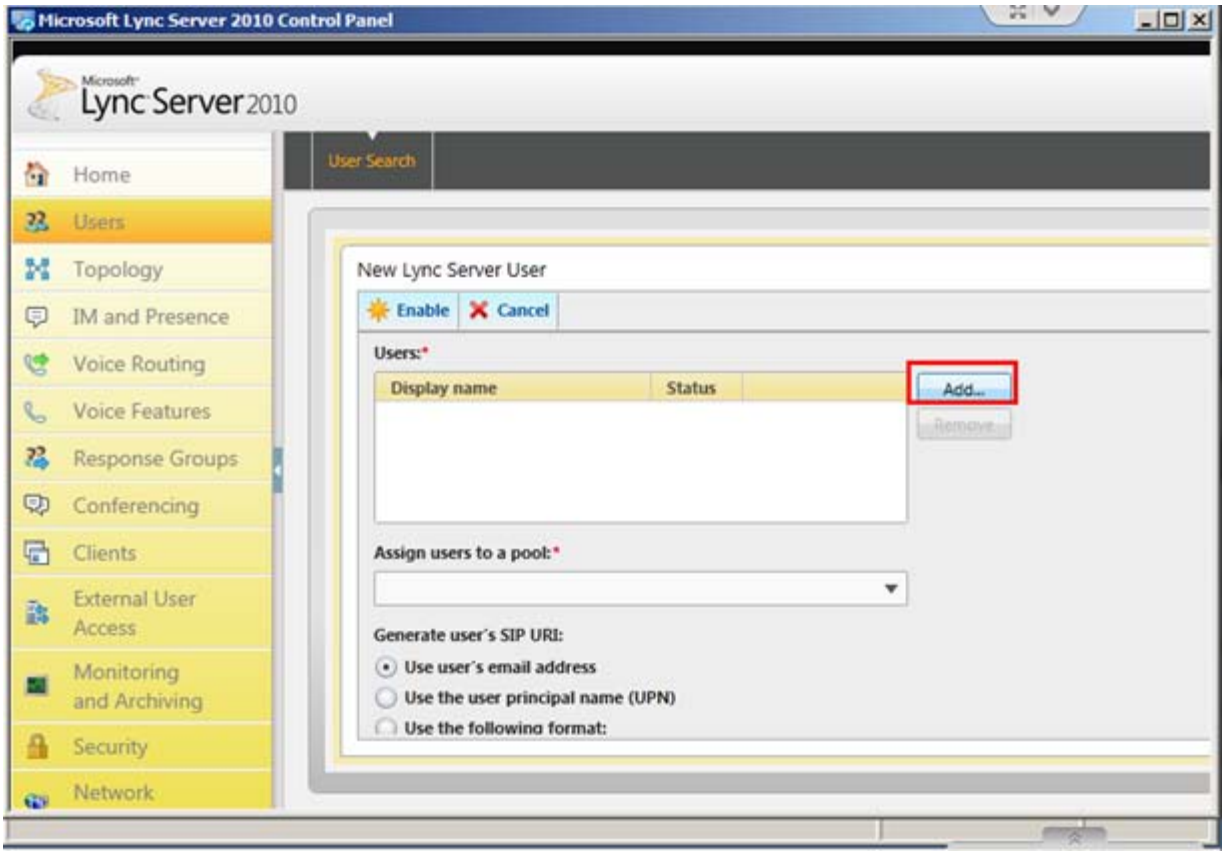

Figure 3.3

Input name' harryhua', and click 'find'. Then choose it before clicking 'ok'

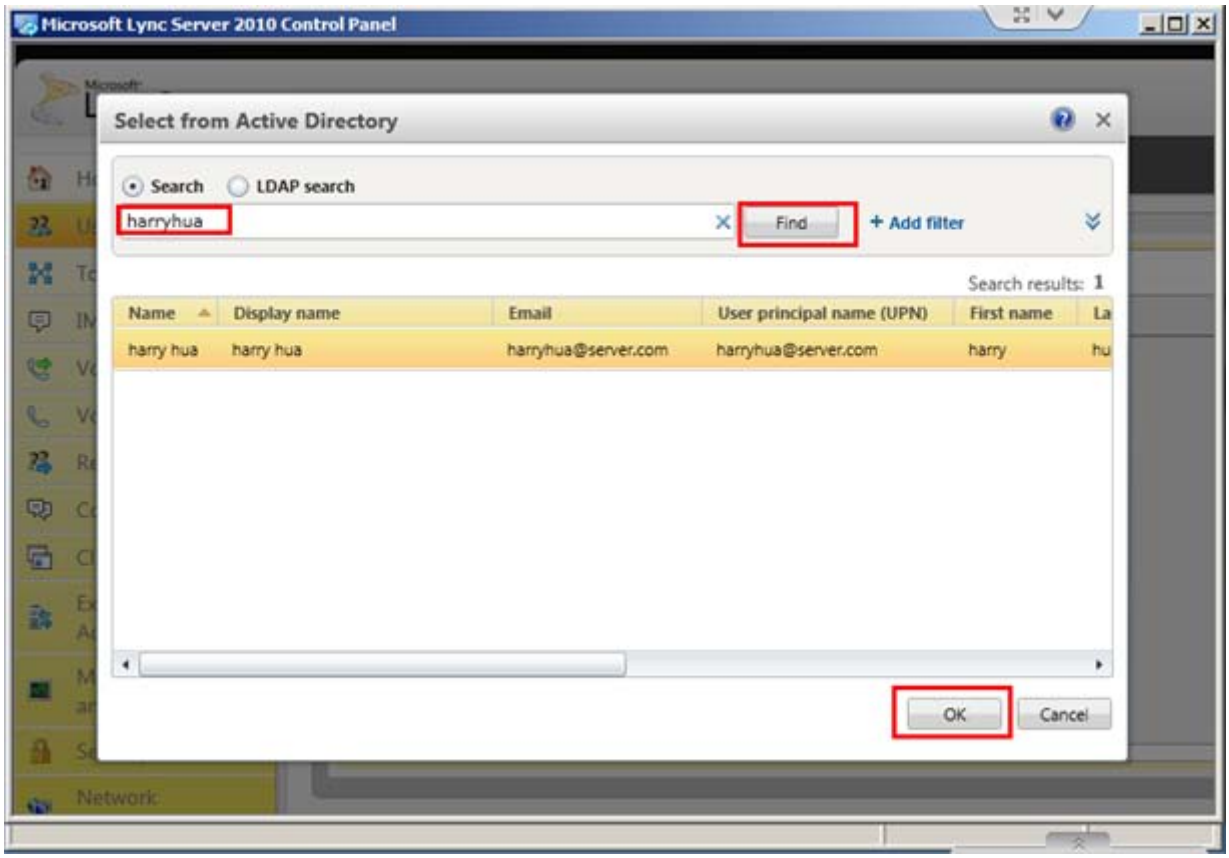

Figure 3.4

Assign user to pool: lync.server.com

For user' SIP URL to log in at client software, we recommend using UPN

Telephony: enterprise voice

Line URL: TEL: +128888

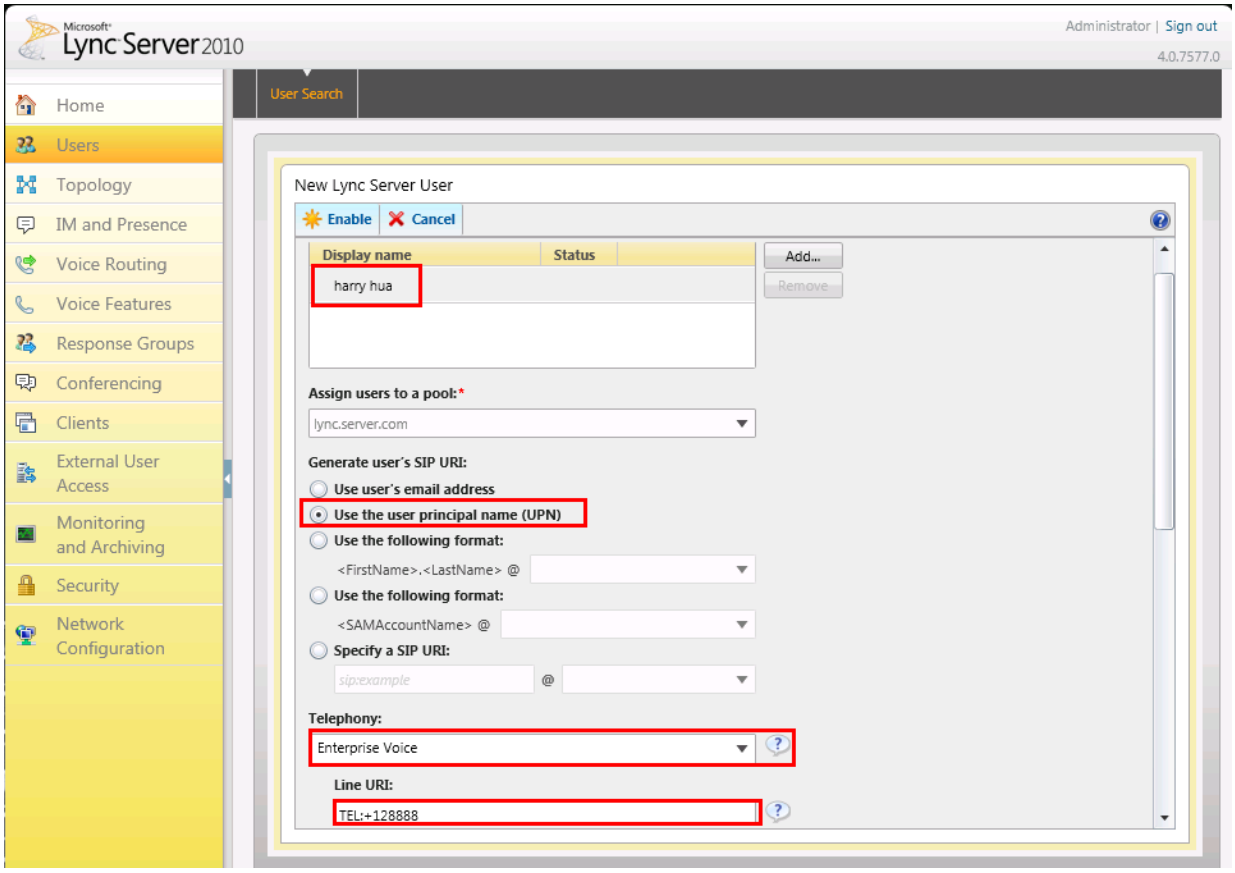

Figure 3.5

Click 'enable ' to save it.

Log in the client software with the new account: harryhua@server.com to test if it is successfully added as a lync server user.

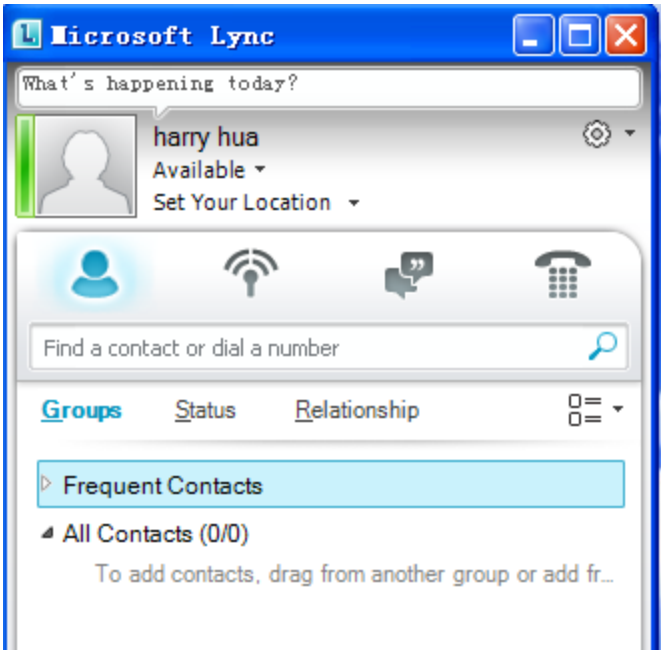

Figure 3.6

4. Voice routing in lync

Note: the extension number of Lync server starts with '+'.

Edit the 'Global' dial plan

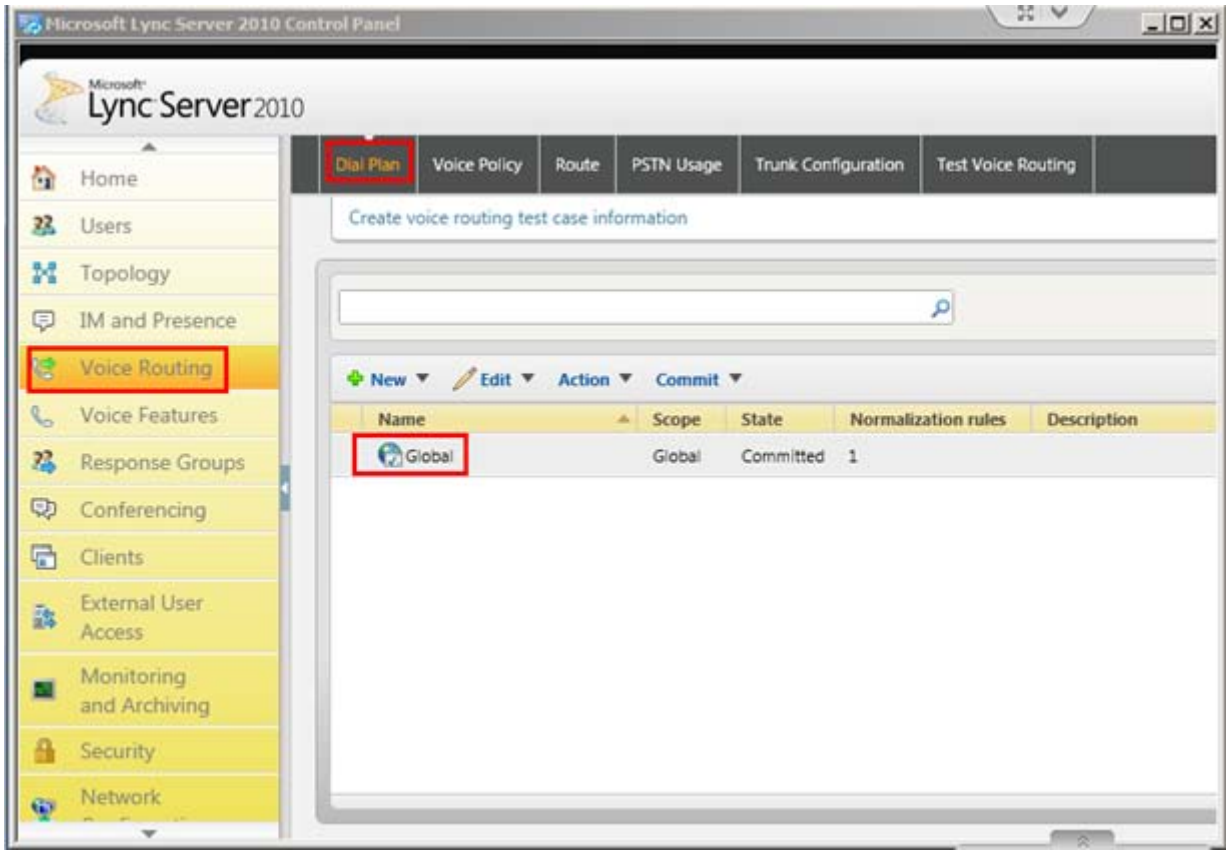

Figure 4.1

Edit the rule of 'Prefix All'; we need add a '+' as the prefix

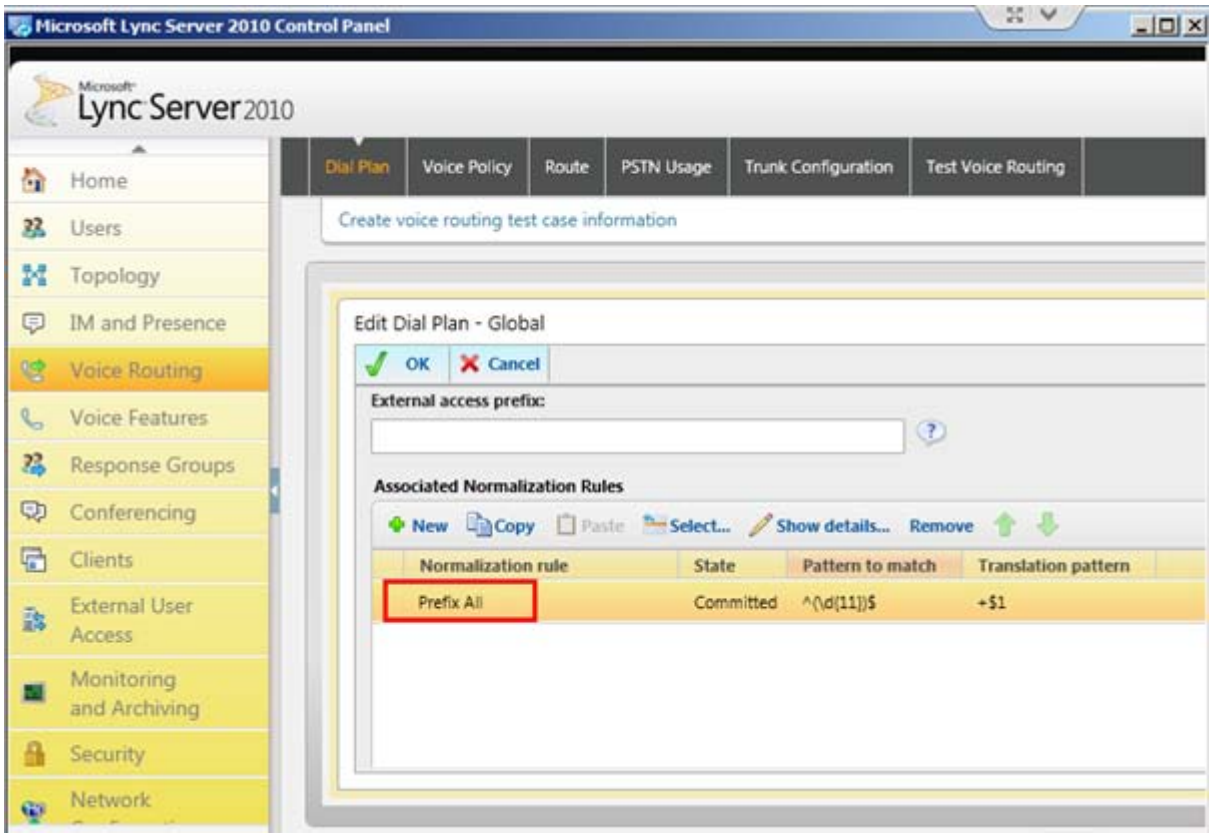

Figure 4.2

Modify the length to 'any' and click 'ok ' to save it

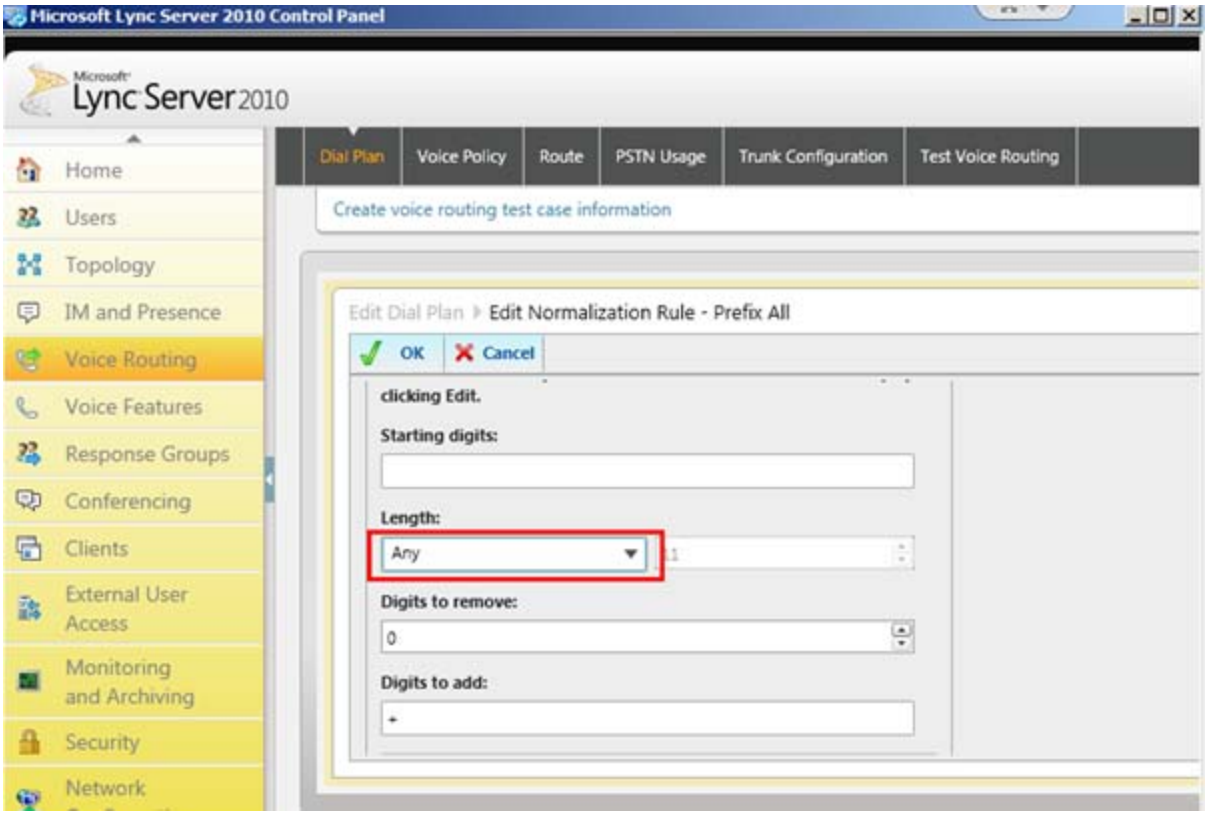

Figure 4.3

Edit the 'route' page

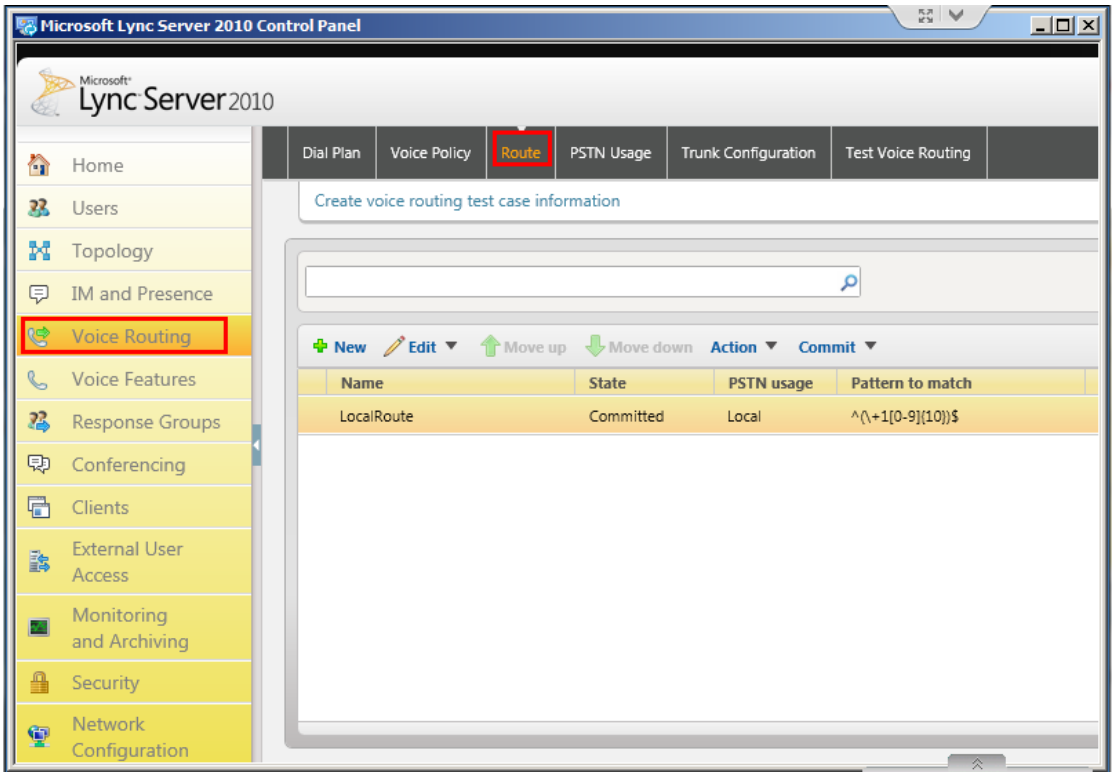

Figure 4.4

Click 'LocalRoute' to start edit

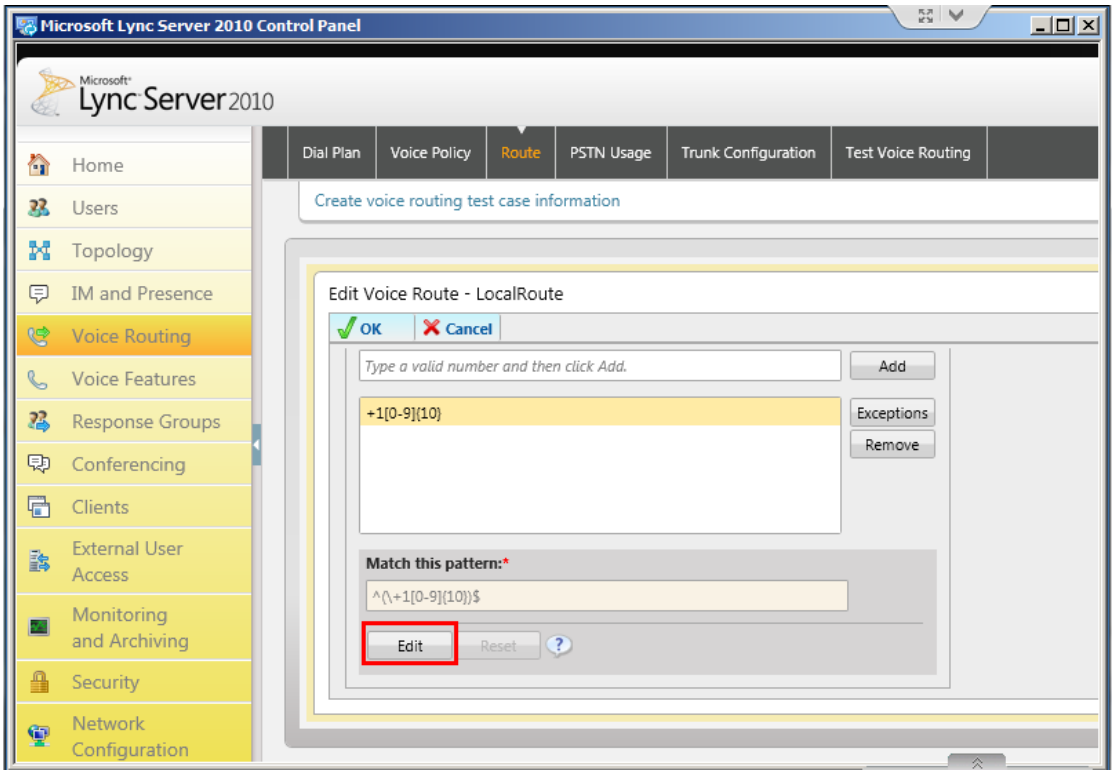

Figure 4.5

Modify the default pattern to ^(\+\d*)$

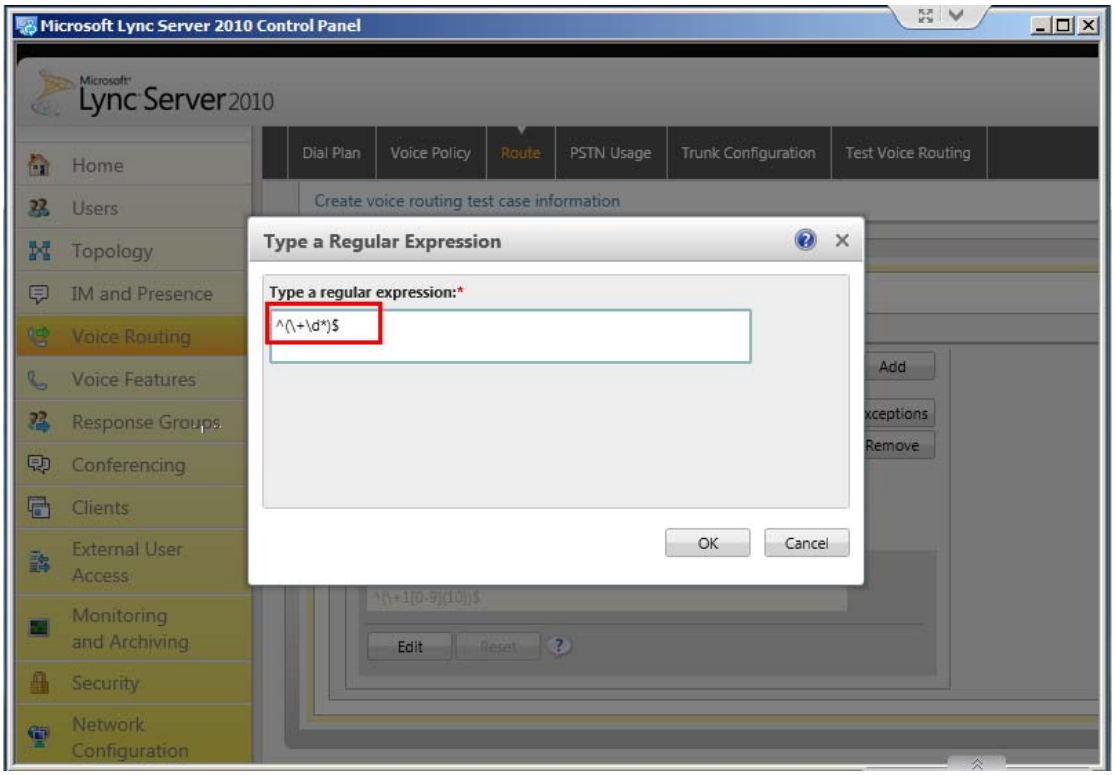

Figure 4.6

Click 'ok' to save it, and you will see the modified patten as below:

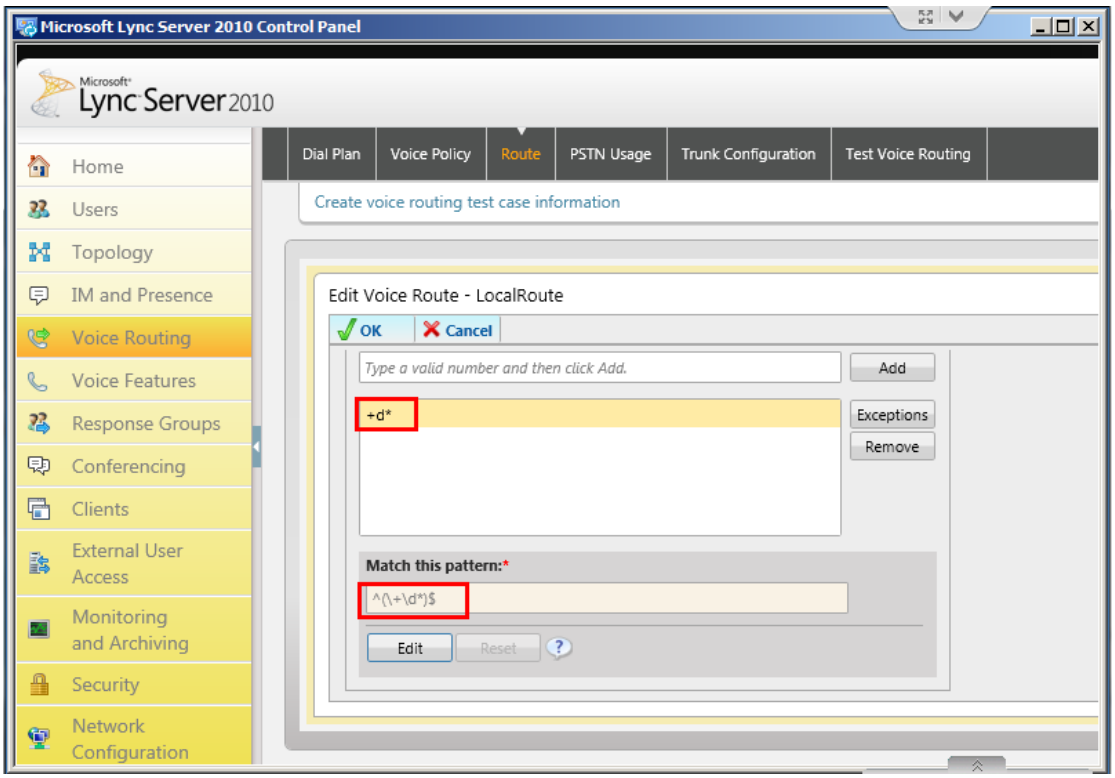

Figure 4.7

Add the associated gateway:

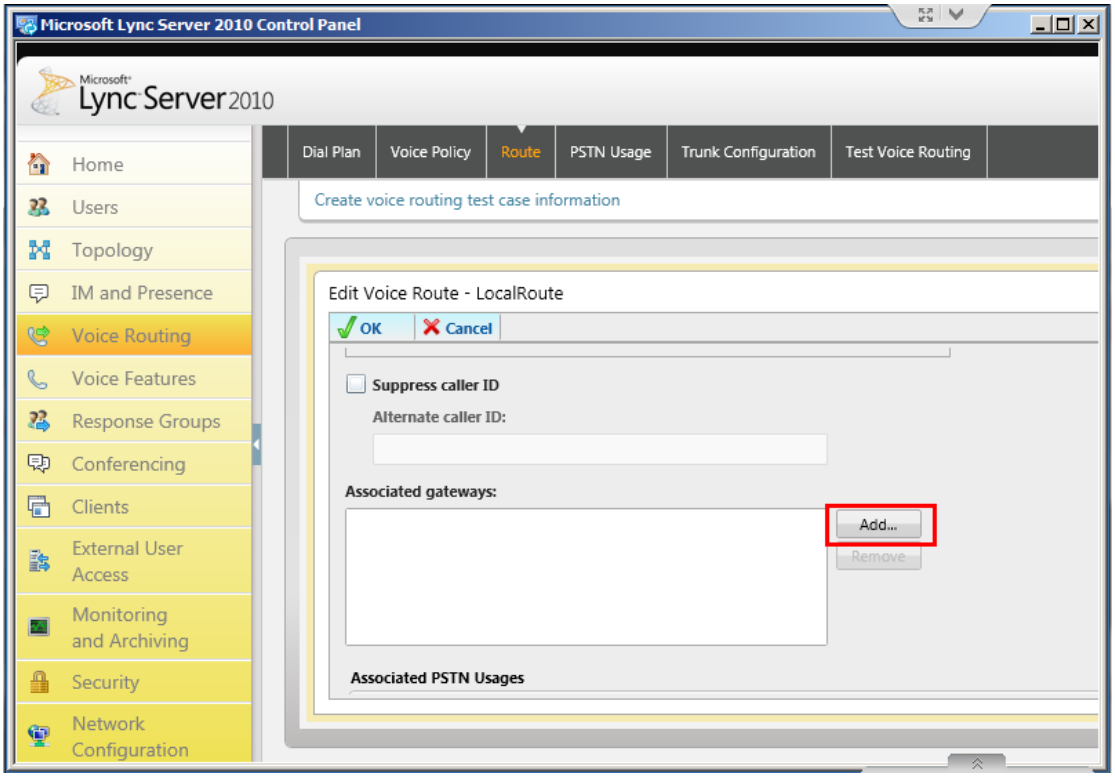

Figure 4.8

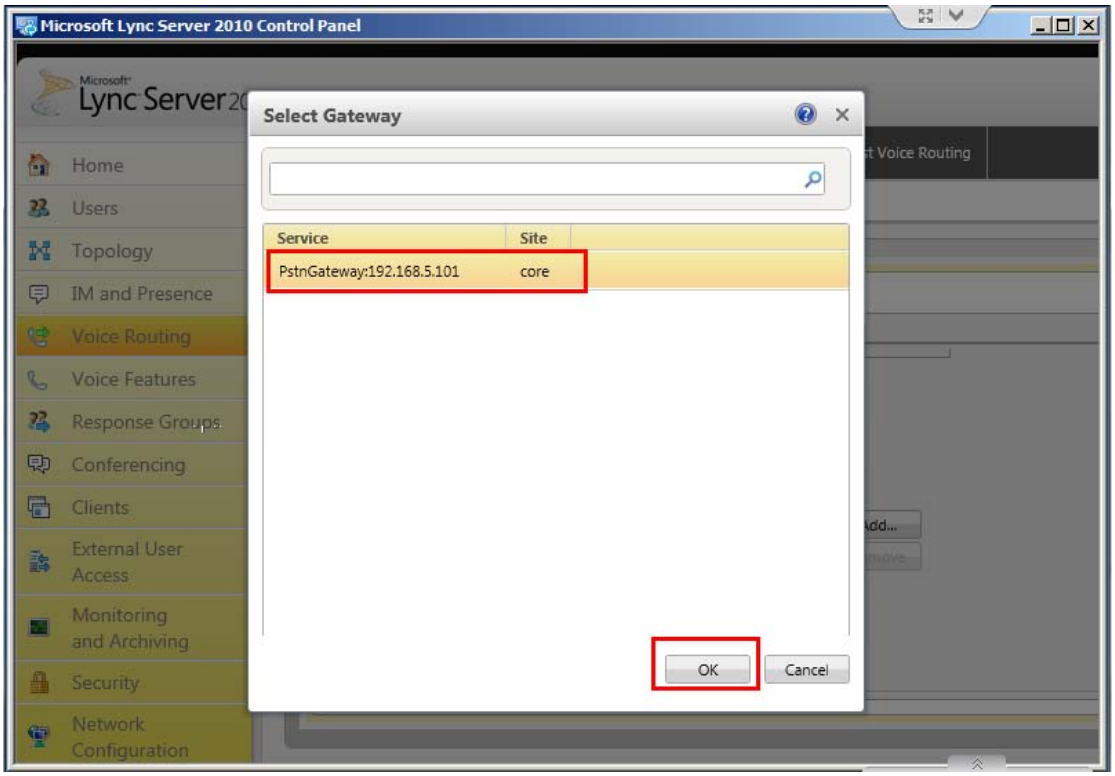

Figure 4.9

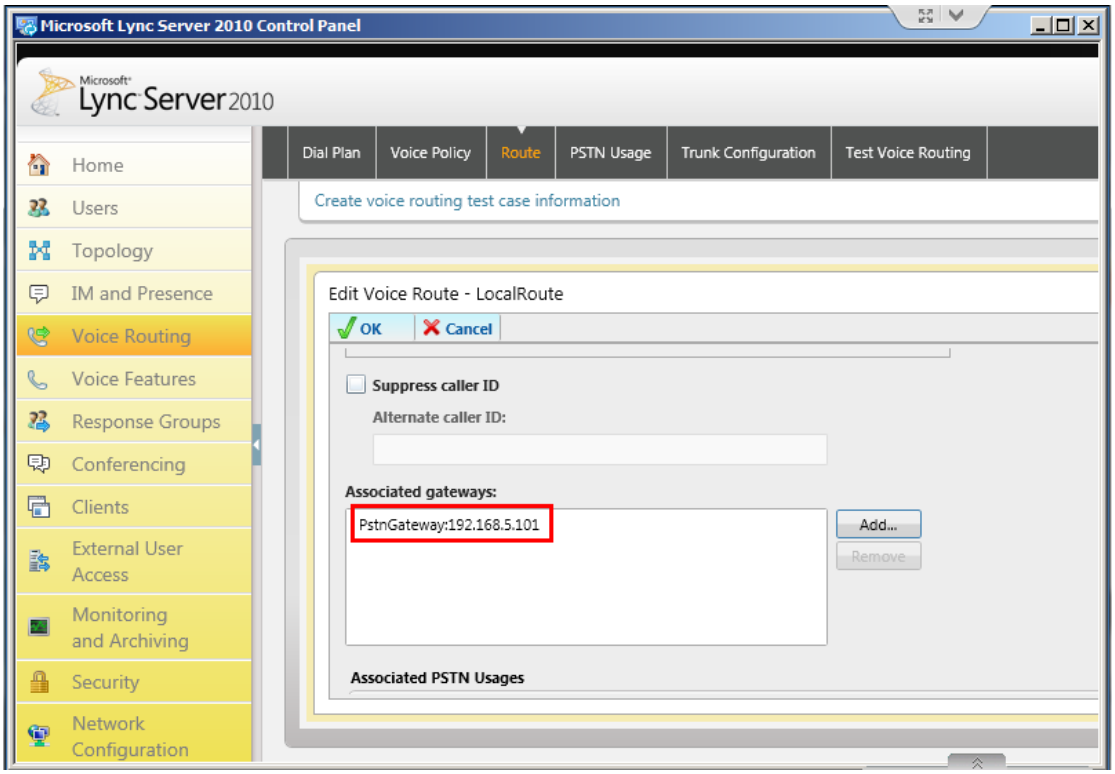

Figure 4.10

Click 'ok' to save it

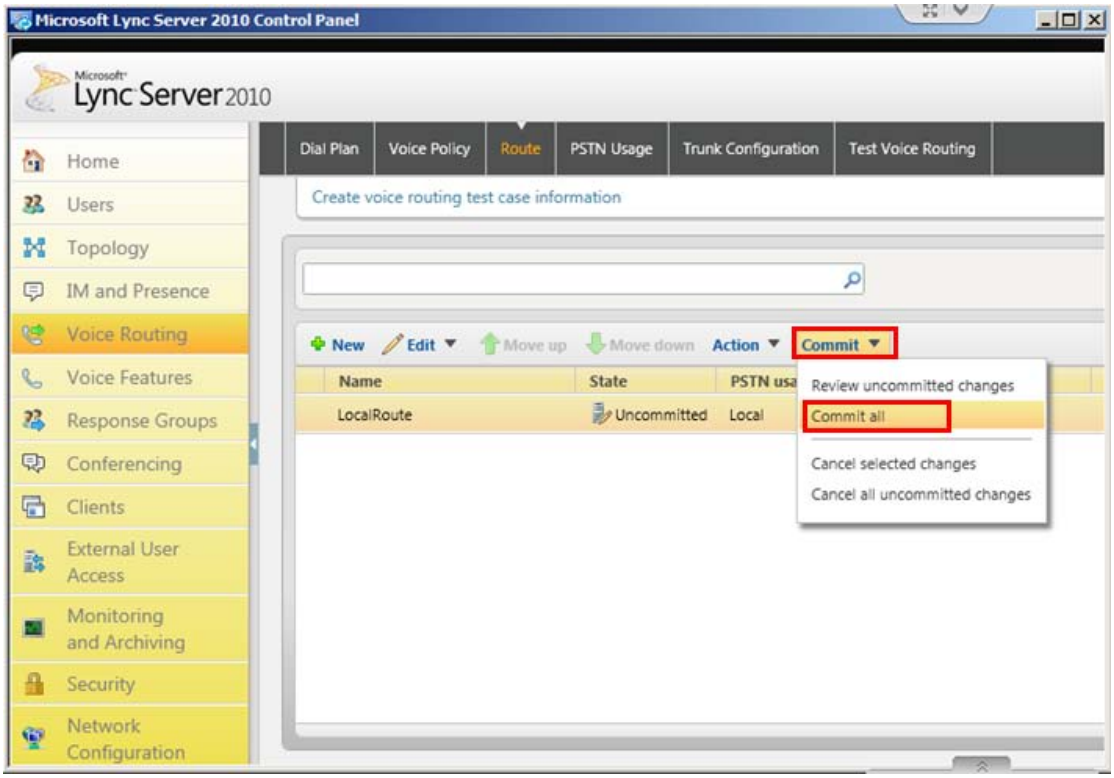

Figure 4.11

commit all the modification.

the configuration in Lync server side is finished .

5. Configurations in MyPBX

Create a 'peer to peer' sip trunk:
Hostname/IP: the IP of Lync server, 192.168.5.222
Port: 5068(the default port for TCP protocol)
Transport: TCP

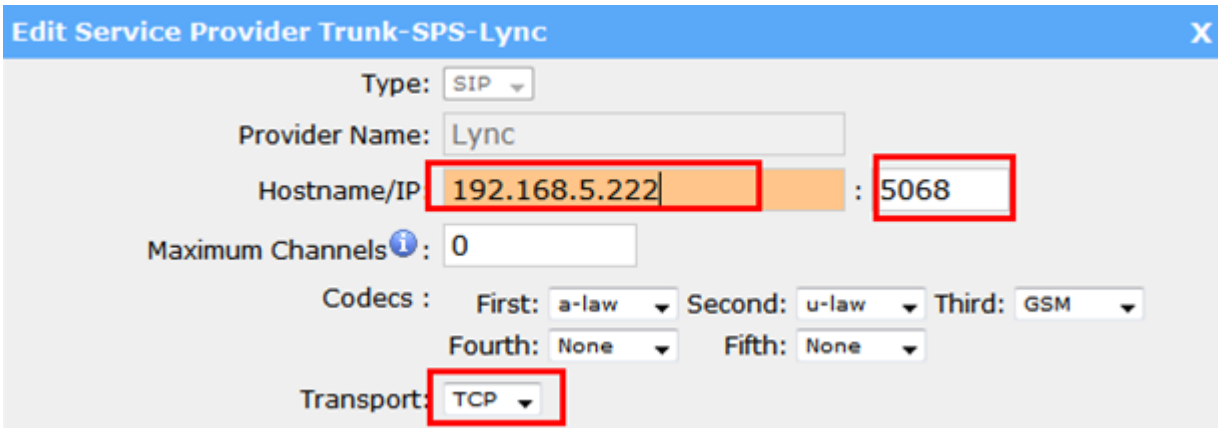

Figure 5.0

Check the status in 'line status' page:

5.1 Configurations for calling between extensions

1. Create inbound route for this trunk with DID for each extension extension range in MyPBX(500-510 for example)

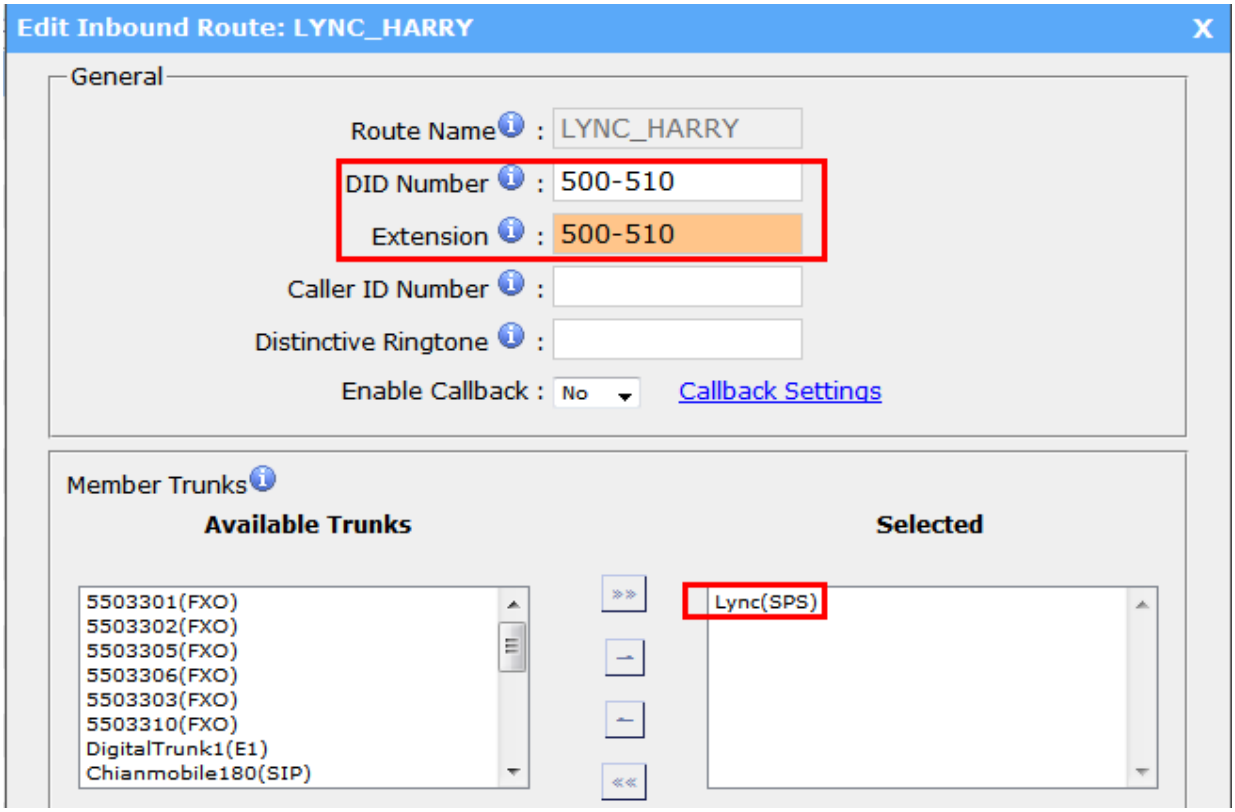

Figure 5.1

In this case, you can dial the extension number of MyPBX from Lync client directly.

2. Create outbound route for this trunk for dialing the extension number of Lync server
   Note: extension number of Lync server is '+12XXXX'
   in my example, the number of account 'harryhua' is +128888

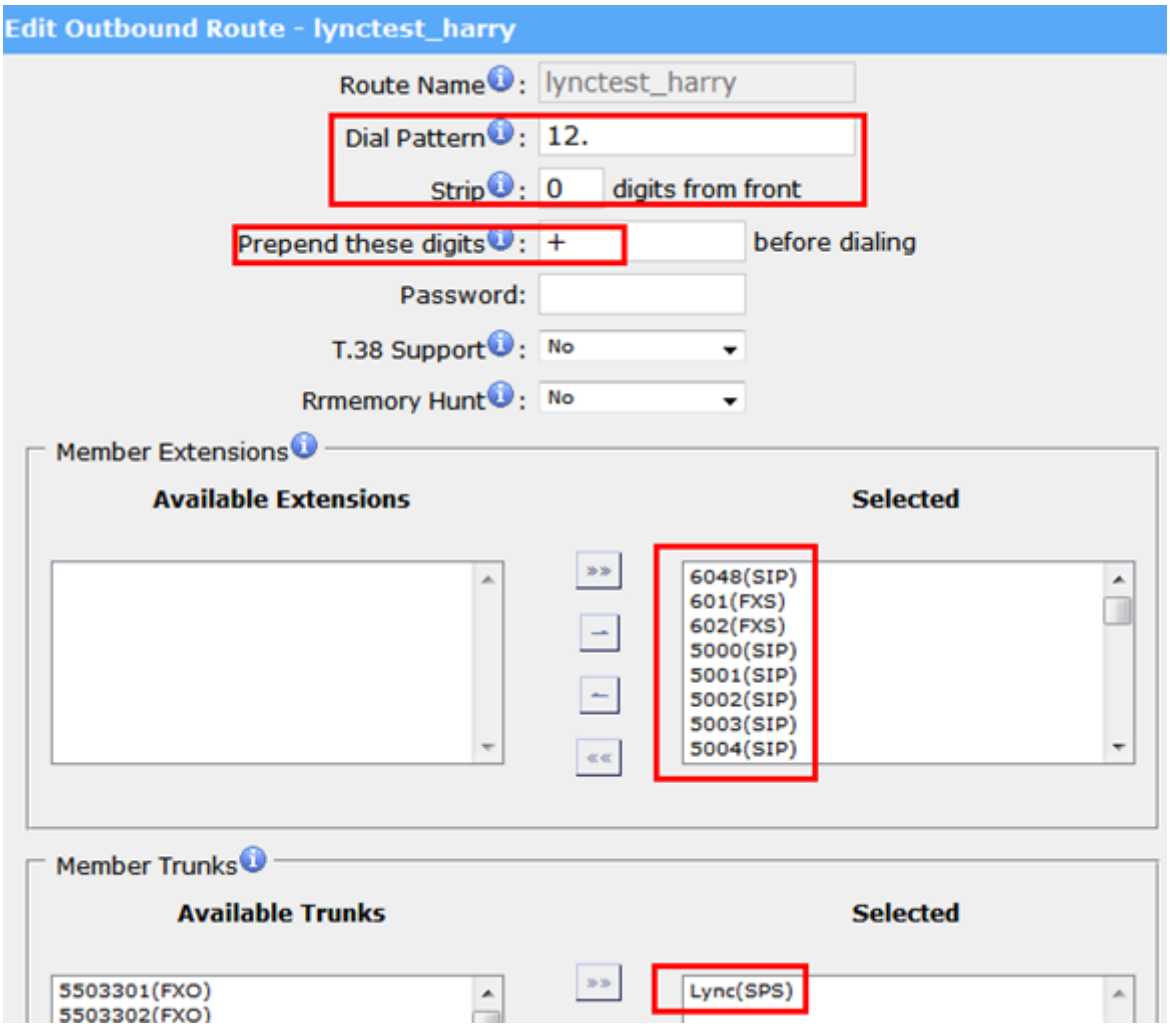

Figure 5.2

5.2 dialing out from Lync via the pstn trunk of MyPBX

Note: please check if the pstn trunk is available in MyPBX.

1. Create outbound route for pstn trunk

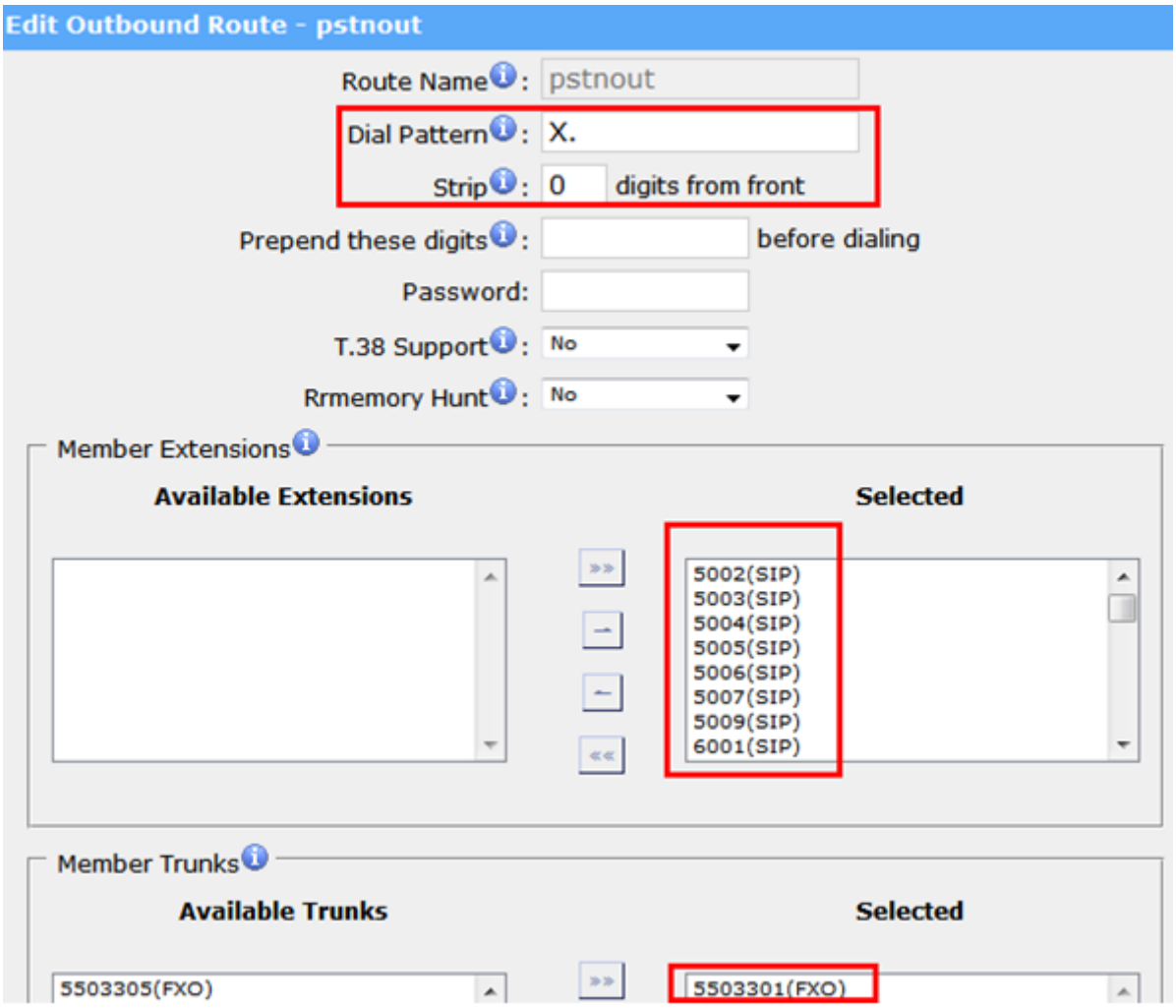

Figure 5.3

2. Create inbound route for Lync trunk and choose this route as the destination

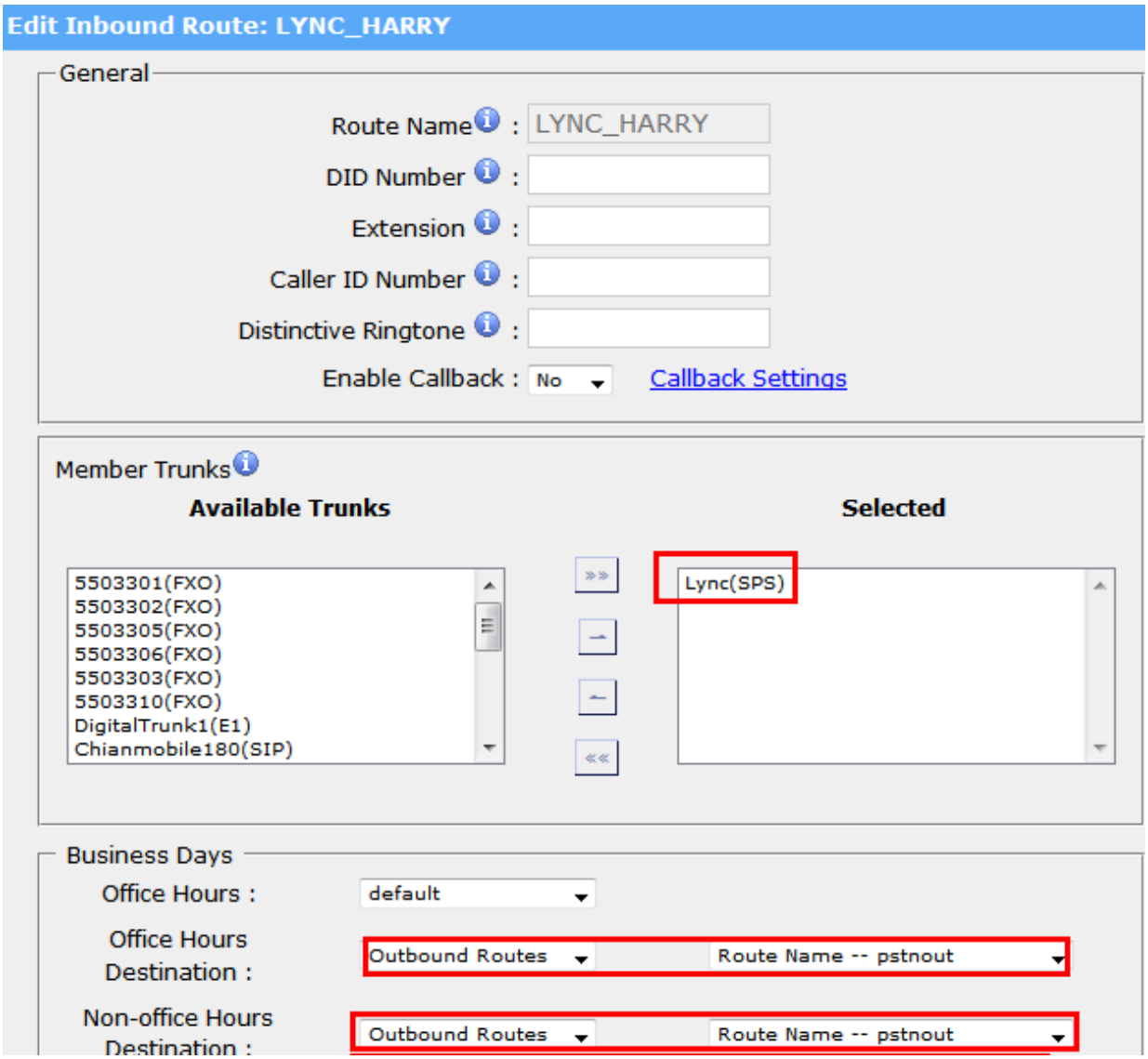

Figure 5.4

Then you can dial your cell phone number from Lync client software directly.

5.3 dial into Lync server from outside

1. Create outbound route for the sip trunk to Lync server.

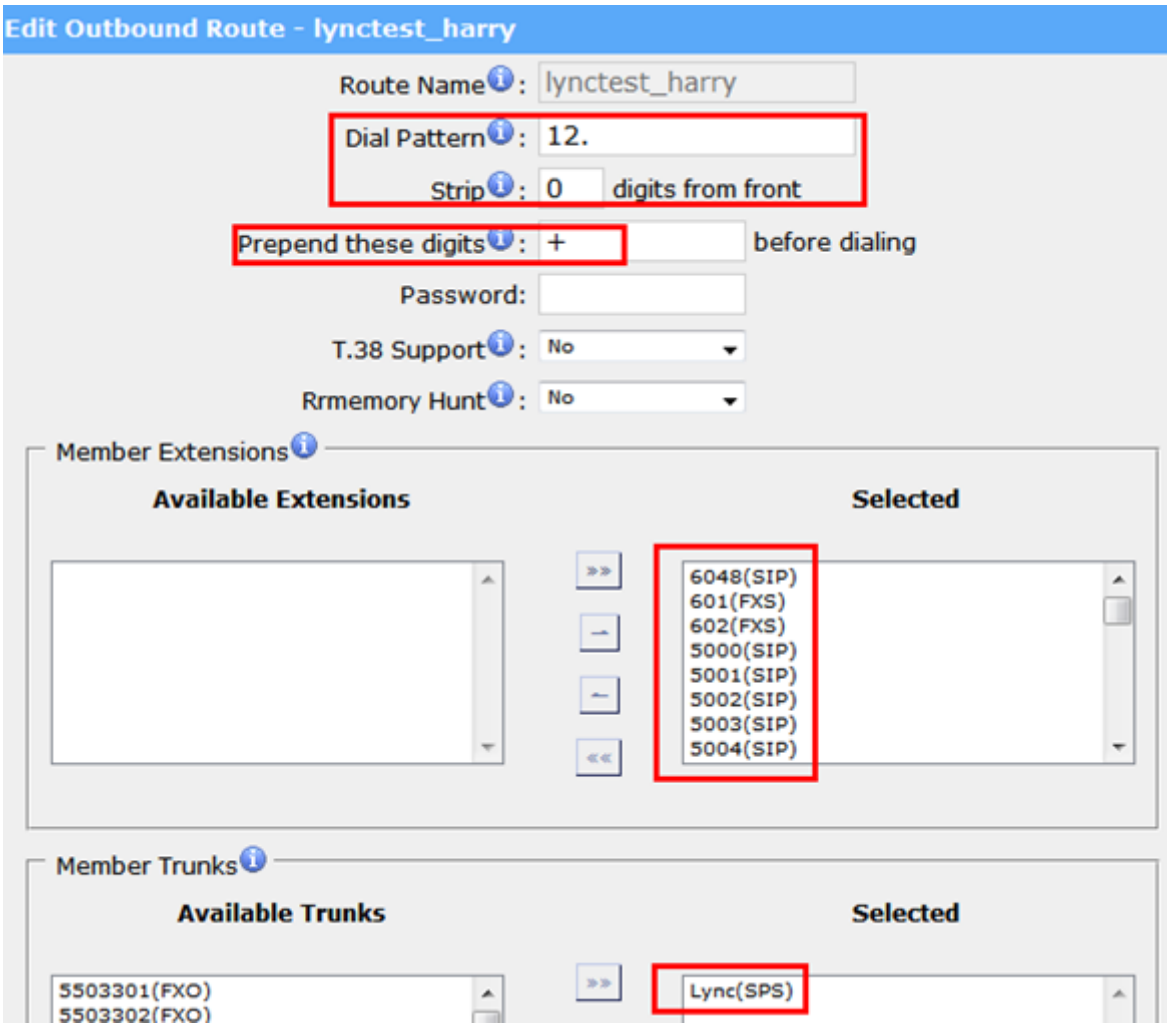

figure 5.5

2. Create DISA and choose this outbound route

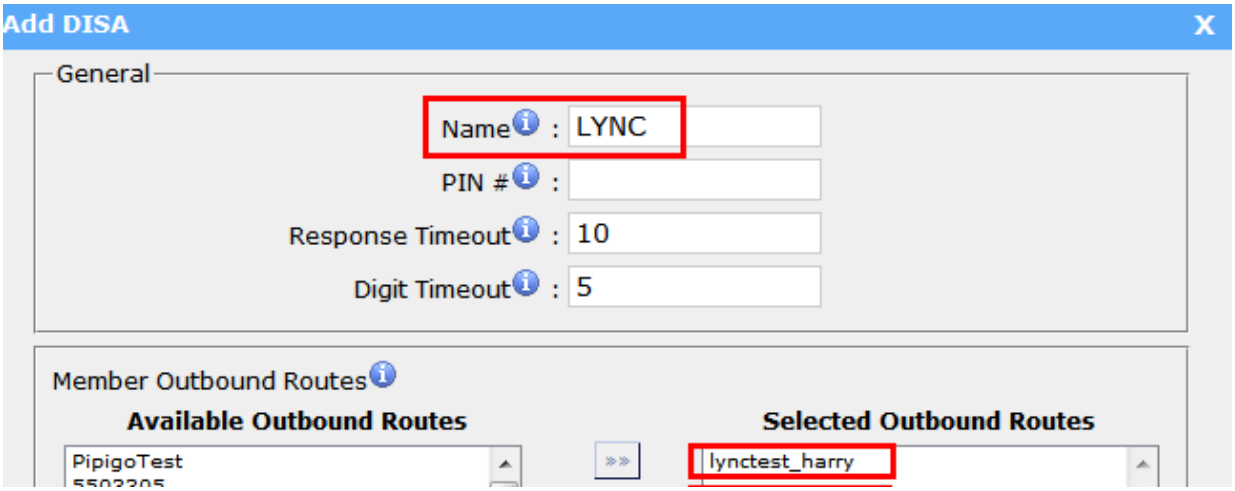

Figure 5.6

3. Create inbound route for pstn trunk and choose DISA as destination

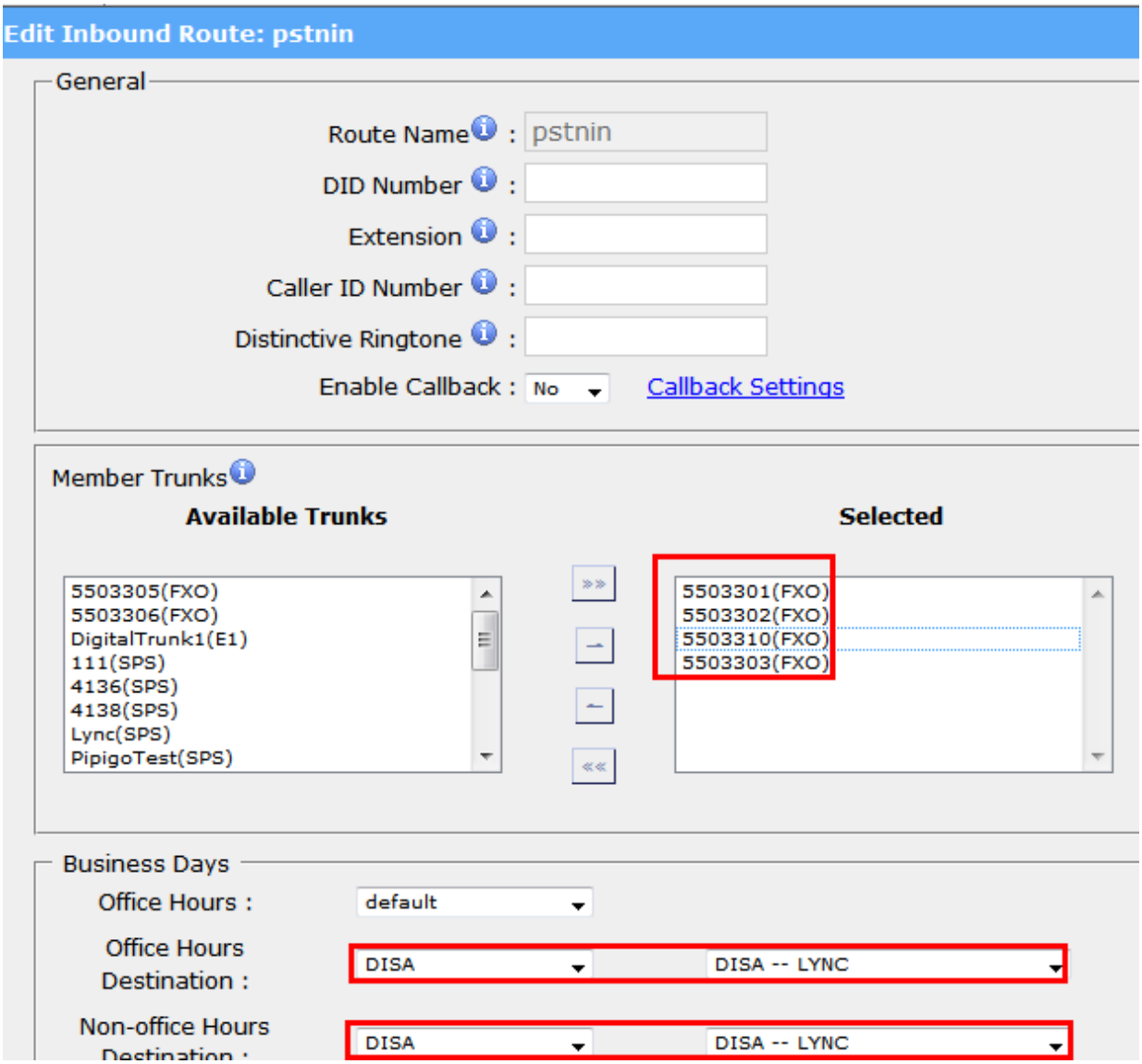

Figure 5.7

You can test by dialing the pstn number first, and then dial the extension number of Lync server after the second dial tone.

<The end>