

# The Integration of Lync Server/OCS 2007 and MyPBX

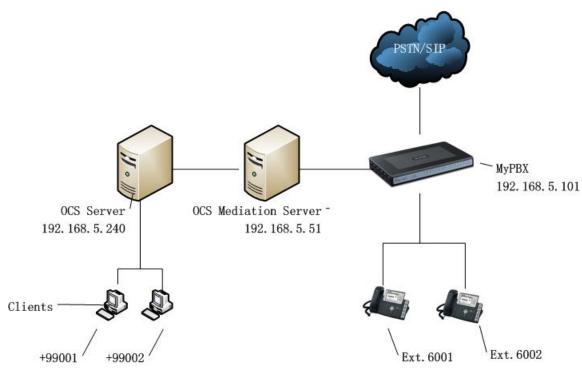
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## 1. Introduction

This is the guide to the integration of Microsoft Office Communication Server and MyPBX. It will offer the connection between Office Communicator users (OC users) and MyPBX so that the users can have access to the extensions, inbound or outbound routes of MyPBX.

#### Flowchart:



P 1-1

OCS server: 192.168.5.240

OCS Mediation Server: 192.168.5.51

MyPBX: 192.168.5.101

MyPBX Extension numbers: "6001" to "6099"

Office Communicator user virtual number: "+99001" to "+99099"

### After the configuration,

- 1. The OC user can call the extension of MyPBX by dialing "6001" to "6099".
- 2. MyPBX's extension can call the OC user by dialing "99001" to "99009".
- 3. If the dial pattern of the outbound route of MyPBX is "9." and the OC user want to call PSTN number "5503309", the OC user should dial "95503309" to call out.
- 4. PSTN inbound calls can get into a DISA and then go to the OC users.



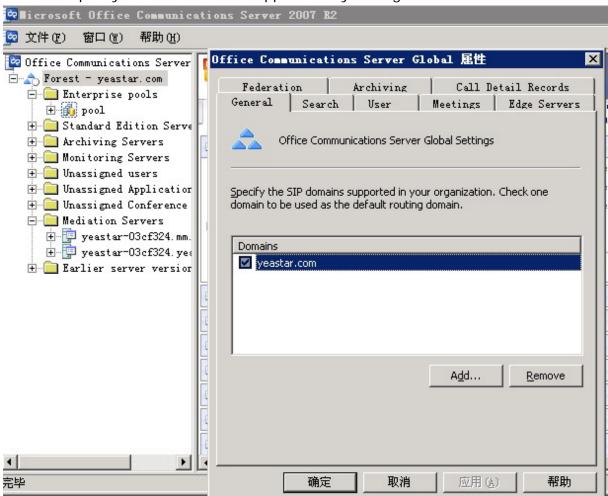
## 2. The Configuration of OCS

After the deployment of OCS server and OCS mediation server, follow the steps.

### 2.1 The Configuration of OCS Global Properties and Voice Properties

**Step 1: Right click** Forest – Properties – Global Properties

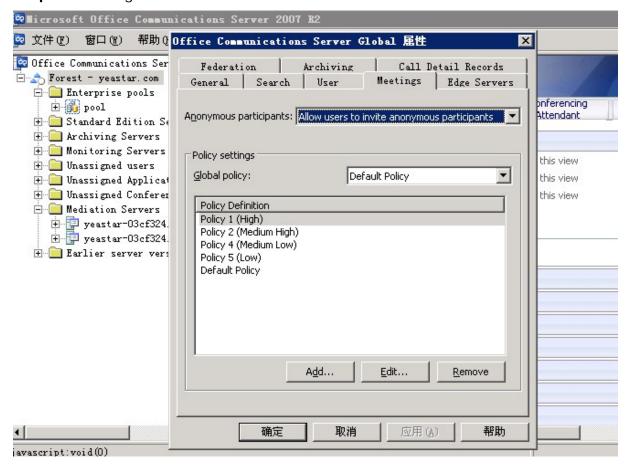
General- Specify the SIP Domains supported in your organization.



P 2-1-1



### Step 2: Meetings

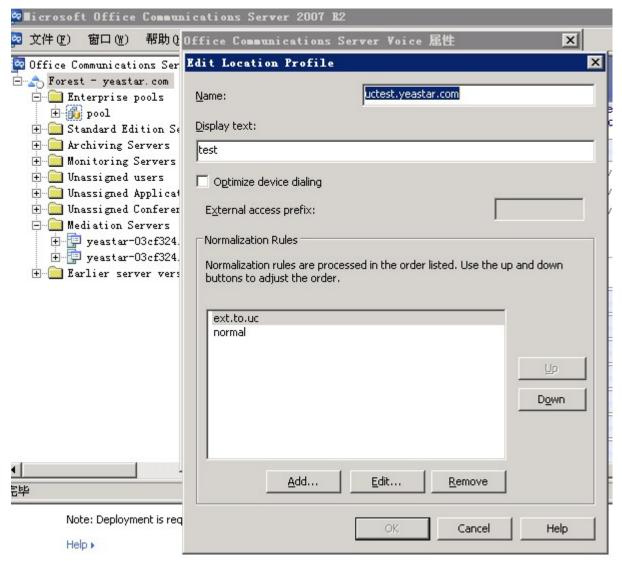


P 2-1-2



### Step 3 Left click Forest- Properties- Voice Properties

Location Profiles - Add.../Edit...



P 2-1-3

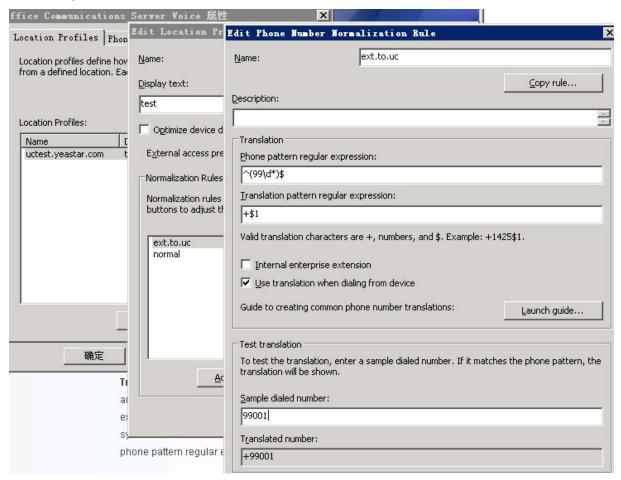
Edit Phone Number Normalization Rule

### Detail on:

http://office.microsoft.com/en-us/help/phone-number-normalization-rule-regular-expressions-HP010290159.aspx



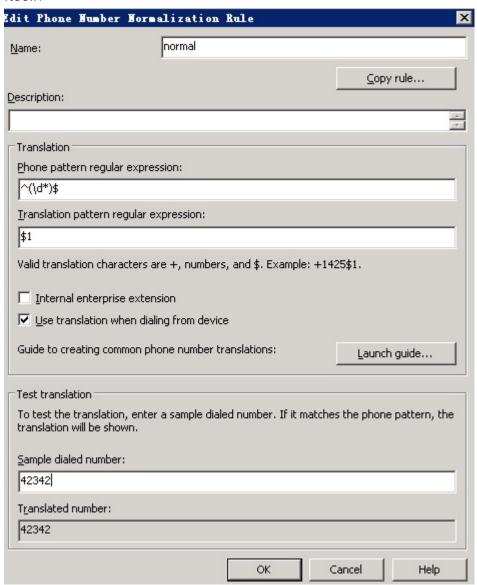
The setting below means when you dial a number starts with "99", the system will dial a number starts with "+99" (If you want to call the OC user's virtual number, "+" is necessary).



P 2-1-4



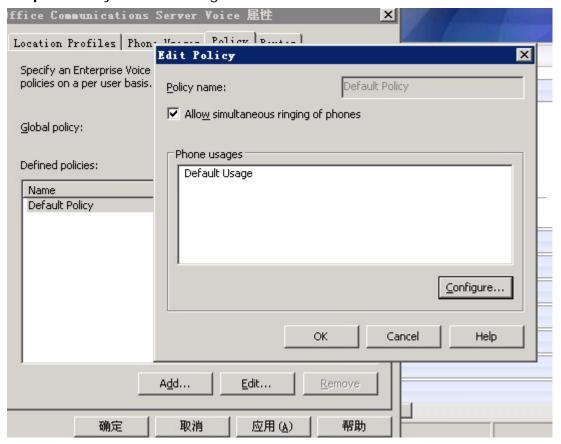
The setting below means when dialing a normal number, it doesn't change the number itself.



P 2-1-5

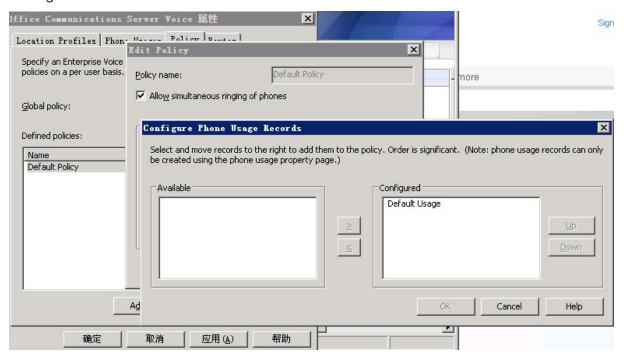


### Step 4: Policy - Edit - Configure



P 2-1-6

### Configure



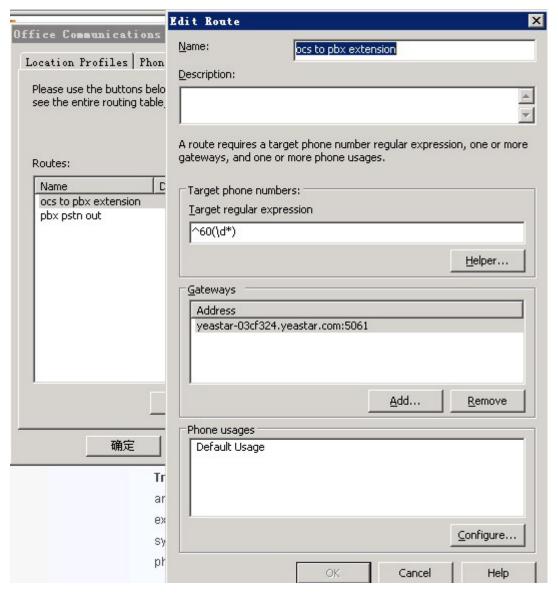
P 2-1-7



#### Step 5: Routes- Add/Edit

The calls will use this route according to the Target Regular Expression.

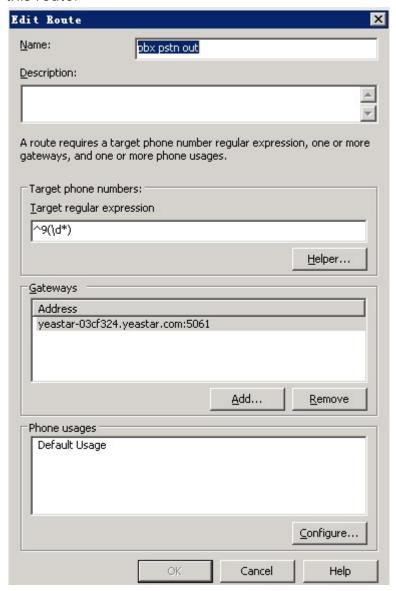
In this case, if users want to connect to MyPBX (call the extensions or use the outbound routes), the calls will use the route. Choose the OCS Mediation Server as the Gateway. This setting means if the number starts with "60" (This setting is for you to call a MyPBX's extension. MyPBX's Extension numbers start with "60"), the call will use this route.



P 2-1-8



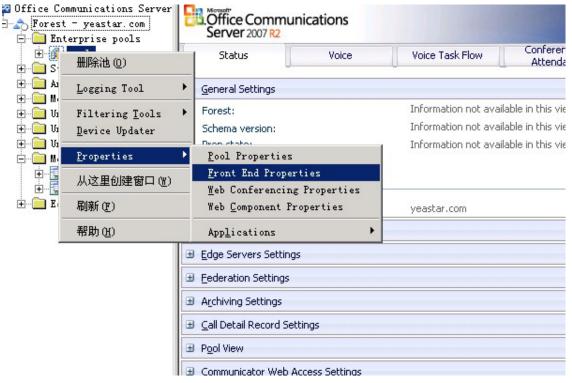
The setting below means when the number you dial start with "9" (This setting is for you to use the outbound route of MyPBX. The dial pattern of MyPBX's outbound route is "9."), the call will use this route.



P 2-1-9

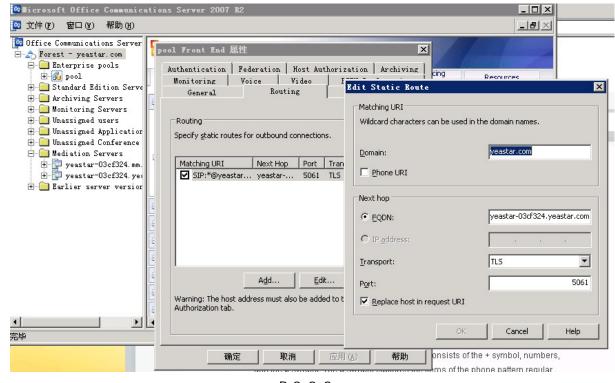


### 2.2 The Configuration of OCS Front End Properties



P 2-2-1

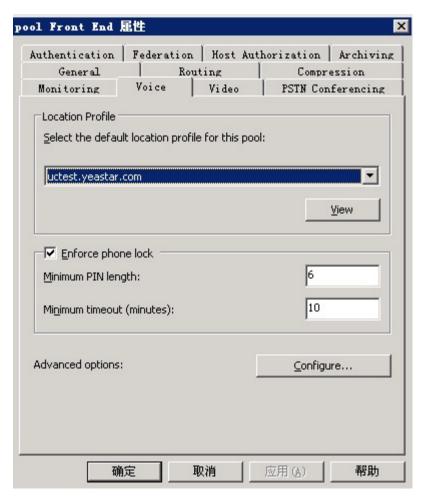
**Step 1:** Routing -Add/Add (Next Hop FQDN should be the OCS Mediation Server, this setting will connect the OCS server with OCS mediation server)



P 2-2-2



Step 2: Voice

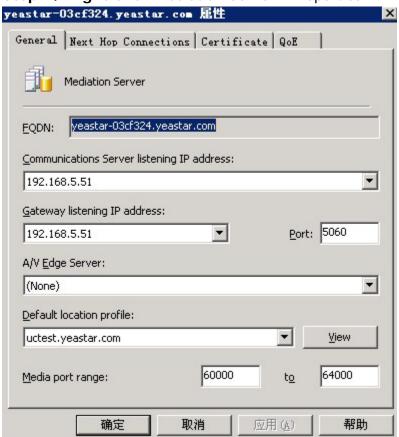


P 2-2-3



### 2.3 The Configuration of OCS Mediation Server

Step 1: Right Click Mediation Server - Properties

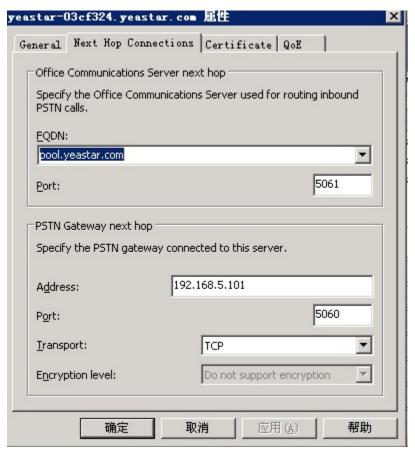


P 2-3-1



### Step2: Next Hop Connections

Office Communications Server next hop will be the OCS server. PSTN Gateway next hop will be MyPBX (192.168.5.101). (This setting will create 2 connections. One is between OCS Mediation server and OCS server, the other is between OCS Mediation server and MyPBX)



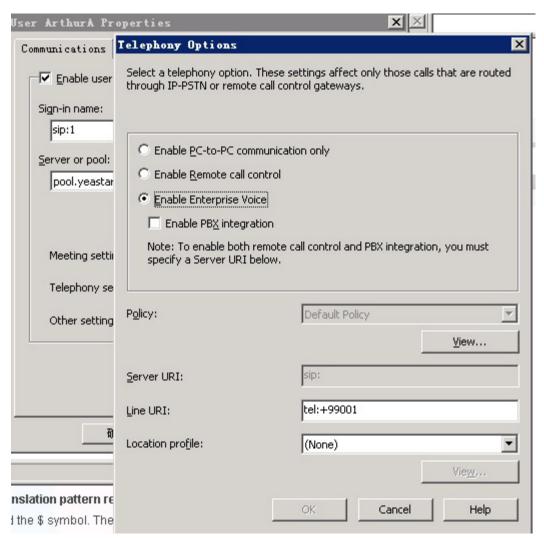
P 2-3-2



### 2.4 The Configuration of OCS User

Right click one of the Users - Telephony Setting

"tel: +99001" means the virtual number of this OC user is "+99001".



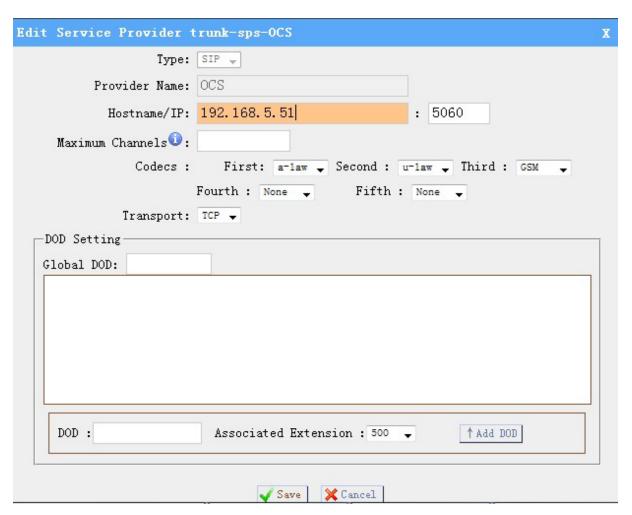
P 2-3-3



# 3. The Configuration of MyPBX

### Step 1: Create the Connection between OCS and MyPBX

Basic - Trunk - New Service Provider



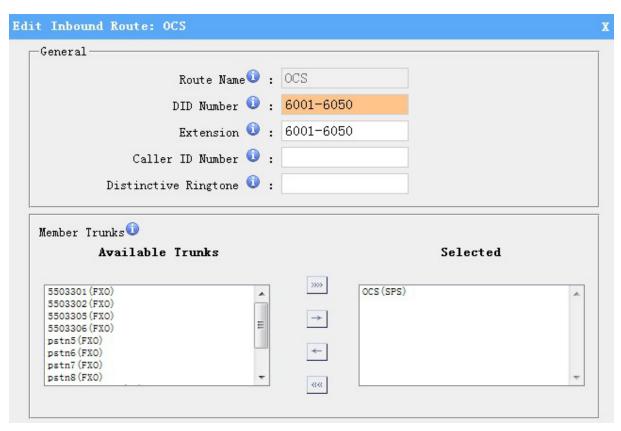
P 3-1



### Step 2: Configure OC Users to Call MyPBX's Extensions

Inbound Route- New Inbound Route

This setting means when UC users dial 6001 to 6050, they will call the MyPBX's Extensions 6001 to 6050.



P 3-2

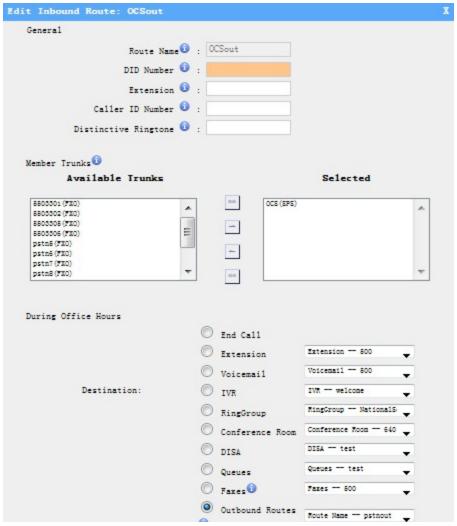
Detail test in chapter 4.1.



### Step 3: Configure OC Users to Use the Outbound of MyPBX

Inbound Route - New Inbound Route

This setting means the calls from OCS will go directly to the outbound route. You can have a try on other settings such as IVR or DISA.



P 3-3

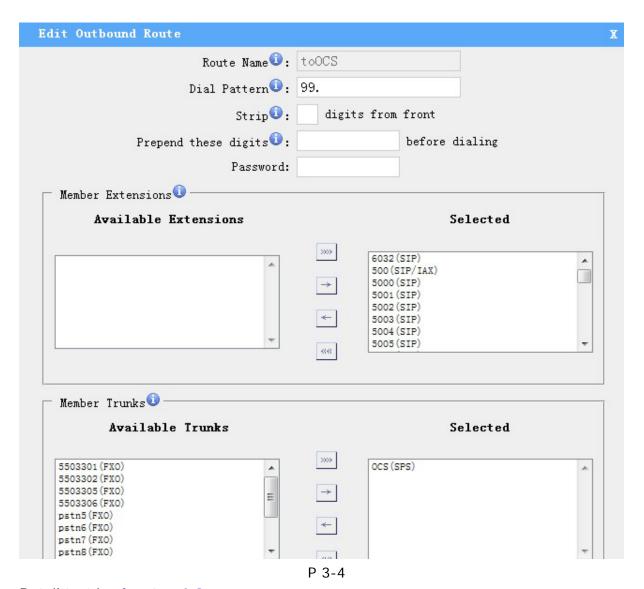
Detail test in chapter 4.1.



### Step 4: Configure MyPBX's Extensions to Call OC User

Outbound Route - New Outbound Route

This Setting means when the extensions dial the number starts with "99", this call will go to the OCS Server.



Detail test in chapter 4.2.



## 4. Test

### 4.1 OC Users Call MyPBX's Extensions and Use Outbound Routes

In this case, OC user dials 6001 to call ext.6001 of MyPBX.

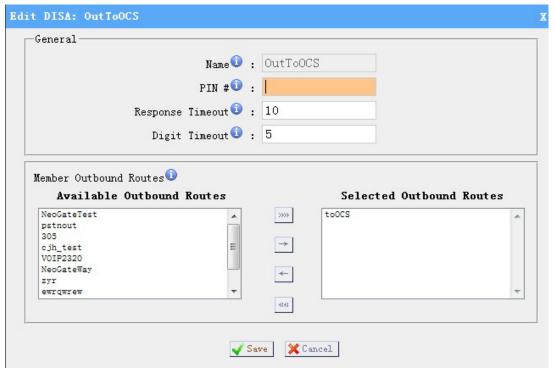
To use the outbound routes of MyPBX, the OC user should follows the setting of MyPBX. If the dial pattern of the outbound route is "9", the OC user should dial "9" before the number. E.g. 89xxxxxx (xxxxxxx is the number the OC user wants to call).

### 4.2 MyPBX Extensions Call OC User

In this case, all the virtual numbers of OC users start with "99". MyPBX's extensions dial a number starts with "99" will connect to OCS. If you dial "99001", you will call the OC user whose virtual number is "+99001".

### 4.3 Inbound Call to OC User

Create a DISA, Inbound calls will go to the DISA and then the caller can dial the virtual number of OC user directly.



P 5-1



[End]