Lab 5: Connecting Asterisk to INOC-DBA

You will need to have set up an account and log in to the INOC-DBA administration system to do this.

http://www.pch.net/inoc-dba/

1. Set up INOC-DBA to send calls to your Asterisk server.

You need to set up a termination method through the INOC-DBA system to deliver calls to your asterisk server.

For this lab exercise we will will set up your INOC-DBA personal extension to terminate calls on your lab asterisk server. Select 'My Phone Numbers' from the menu and populate it accordingly:

| Add New INOC-DBA Phone Number for Jonny Martin | | | | |
|--|------------------------------|------------------|--|--|
| On this page, you can define INOC-DBA phone numbers, which will then be available for assignment to different phones or other "termination methods" on the Termination Methods page. | | | | |
| SELECT ASN | SELECT EXTENSION | | | |
| 9503 🛟 | No Extension | | | |
| | O Well Known Extensions | 0 Local Operator | | |
| | • Personal Extension | 561 | | |
| | O Admin Designated Extension | | | |
| | Add | Cancel | | |

Select 'Termination Methods' from the menu and add the IP address of your lab server, then select that as the termination method for your personal extension.

| Add New INOC-DBA Termination Method for Jonny Martin | | | |
|---|--------|--|--|
| On this page, you can define termination methods (ways of receiving phone calls), which can be assigned to your phone numbers | | | |
| Add a new Cisco 7960/7961 or 7940/7941 IP Phone: | | | |
| Add Cisco 7960/7961 IP Phone | | | |
| Add Cisco 7940/7941 IP Phone | | | |
| | | | |
| Add SIP addresses of external devices like IP PBXes or gateways: 9503*561@sanoq.lahai.com | 1 | | |
| | | | |
| | | | |
| Examples: sip:username@domain.com username@domain.com sip:username@192.192.192.5060 | | | |
| Add | Cancel | | |

| INOC-DBA Termination Metho | ods for Jonny Martin | | | |
|---|---------------------------|--|--|--|
| Add New Phone Number Add New Termination Method | | | | |
| | | | | |
| SIP Address: 9503*561@sanog.lahai.com | Delete Termination Method | | | |
| 9503*3 | 661 De-Apply Phone Number | | | |
| | | | | |

2. Configure Asterisk sip.conf

Asterisk needs to be configured to SIP REGISTER itself with the INOC-DBA servers. Add the following to the [general] section of sip.conf:

```
;need to add the register line, which is what Asterisk
;will send to the inoc-dba. the format is
;
; register = > ASN*EXT:password:username@inoc-dba.pch.net/Local_extension
;
register => 9503*561:password:jonny@inoc-dba.pch.net/9503*561
```

Replacing 9503*561 with your INOC-DBA extension, and password:jonny@ with your password and login name.

This statement registers our Asterisk box with INOC-DBA. Inbound calls are sent to the default context.

3. Configure inbound calls

Inbound calls land in the default context. We want these calls to ring a phone, so add something like the following into the [default] context, substituting your details for SIP/2000 and 9503*561.

```
exten => 9503*561,1,Dial(SIP/2000,15)
exten => 9503*561,n,Voicemail(u2000)
exten => 9503*561,n,Hangup()
```

You may want to have inbound NOC calls ring multiple phones. Configure your INOC-DBA extension to ring multiple phones at once.

A nicer way to implement this is to use a GoTo statement in the default context to send inbound calls to 9503*561 to an extension elsewhere in your dialplan, enabling you to easily change the destination for inbound calls. Use this method to send a call to one of your existing extensions. This could be a phone, voicemail, conference, etc.

4. Configure outbound calls

First set up a new SIP peer for INOC-DBA. Add the following peer to sip.conf:

```
[inoc-dba]
type=friend
host=inoc-dba.pch.net
port=5060
username=pchconf
fromuser=9503*561
secret=nothing
canreinvite=yes
```

```
context=from-inoc-dba
insecure=very
```

(Remember to use the correct ASN*ext for the fromuser line in the sip peer)

Calls prefixed with a 9 will be sent out to INOC-DBA. We need to first strip the 9, and then set our outgoing callerID correctly. Add the following to the appropriate context in extensions.conf:

```
; This extension is for outgoing calls to inoc-dba
; 9 for an outside-inoc-dba-line
exten => _9.,1,Set(CALLERID(all)=Jonny Martin <9503*561>)
exten => _9.,n,Dial(SIP/${EXTEN:1}@inoc-dba)
exten => _9.,n,Hangup
```