

OnDO SIP Server with Cisco 7960s HOWTO by dual

This HOWTO details the configuration of a Brekeke OnDO SIP Server (OSS) with two Cisco 7960 IP phones. This assumes the reader has a working Windows XP SP2 machine and two 7960 phones networked on a switched LAN.

1. Download and install the latest JRE from <http://www.java.com/en/>.

2. Download and install the Brekeke SIP server for Windows from http://www.brekeke.com/download/download_sip.php.

3. Download and install SolarWind's TFTP server from http://www.solarwinds.net/Tools/Free_tools/TFTP_Server/.

4. As Administrator, delete the CNF file association from within Explorer and reboot.

Tools => Folder Options... => File Types => select CNF => Delete => Yes => OK

5. Turn off Windows Firewall.

Start => Settings => Control Panel => Windows Firewall => Off => OK

6. Configure the 7960s for your network:

- Press ****#** to unlock Network Configuration.
- Press the Settings button.
- Navigate to Network Configuration and press Select.
- Change the IP address and subnet mask as appropriate.
- Change the TFTP Server address to that of the Windows SIP server.
- Save the settings and exit.

7. Acquire the latest Cisco 7960 SIP image. This HOWTO uses P0S3-08-4-00.zip. The zip includes:

- OS79XX.TXT
- P003-08-4-00.bin
- P003-08-4-00.sbn
- P0S3-08-4-00.loads
- P0S3-08-4-00.sb2

8. Acquire the remaining 7960 configuration files. They are:

- XMLDefault.cnf.xml
- SIPDefault.cnf
- SIPmacaddressofphone.cnf

9. Edit the Cisco 7960 line in XMLDefault.cnf.xml to read:

```
<loadInformation7 model="Cisco 7960">P0S3-08-4-00</loadInformation7>
```

10. Edit SIPDefault.cnf:

- Make sure image version reads: `image_version: "P0S3-08-4-00"`

- Ensure all proxy IP addresses are that of your SIP server.
- Make sure you have the line: proxy_register: "1"
- Comment out NTP and directory services if not utilizing them.
- Adjust other features as desired.

11. Edit SIPmacaddressofphone.cnf:

- Make sure you have the line: proxy_register: "1"
- Set the line1_name, displayname and authname to the extension of the phone. For example,
line1_name: "201"
line1_displayname: "201"
line1_authname: "201"
- Set the line1_password to a desired numeric pin.
- Leave all other unused line names and displaynames blank, with authname and password values as "UNPROVISIONED".
- Set phone_label to the extension number.
- Set the phone_prompt and phone_password.

Note: The phone_password is the telnet and console password.

12. Copy SIPmacaddressofphone.cnf for the other 7960, rename it and change the extension numbers appropriately.

13. Launch the Solarwinds TFTP server and set it to transmit and receive files.

Start => Programs => SolarWinds Free Tools => TFTP Server

File => Configure => Security => Transmit and receive files => OK

14. Place all 7960 config files in C:\TFTP-Root. They are:

- OS79XX.TXT
- P003-08-4-00.bin
- P003-08-4-00.sbn
- P0S3-08-4-00.loads
- P0S3-08-4-00.sb2
- XMLDefault.cnf.xml
- SIPDefault.cnf
- SIPmacaddressofphone1.cnf
- SIPmacaddressofphone2.cnf

15. Start the OnDO SIP server and verify it is active.

Start => Programs => Brekeke => OnDO SIP Server => OnDO SIP Server Admintool

Login with with the default User ID of 'sa' and the default Password of 'sa'. This will automatically take you to the Start/Shutdown page. Verify that Status is 'Active'.

16. Power cycle the phones. Watching the TFTP server logs, the phones will upgrade to the SIP firmware, showing 'SIP' in the upper right hand corner.

When all is complete, the phones will display the standard splash screen with the Redial, NewCall and CFwdALL options. Verify the phones are registered with the SIP server by clicking Registered in the OSS Administration Tool. Now one phone can call the other directly by extension plus #. For example, 201 can call 202 by dialing 202#.