



Gear up your PBX

Cut Costs, Boost Profits

Version 20160711

Remote IP Phone Extensions (SBC)



Goal of this Module

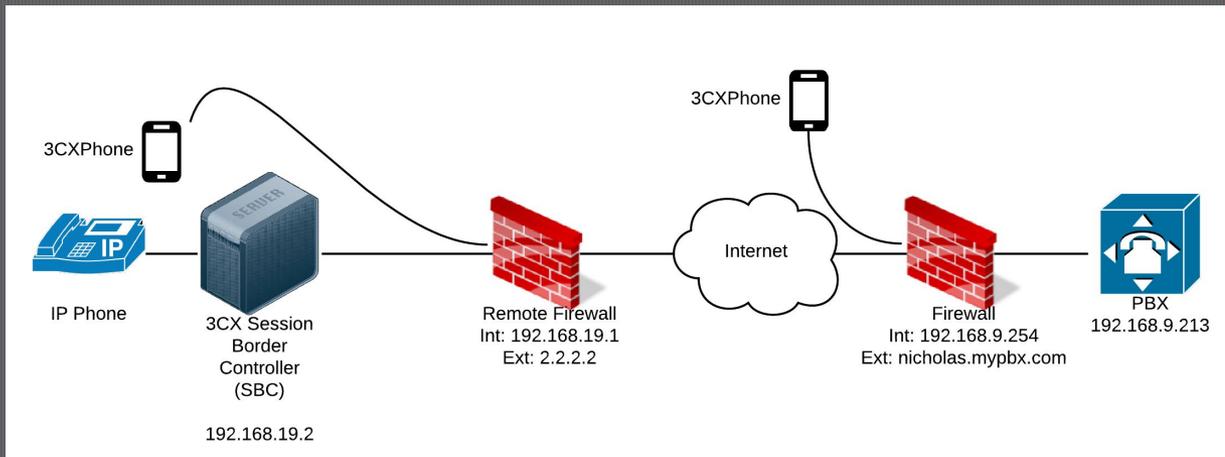
- Correctly Route calls via the 3CX SBC in a remote Location(s)
 - Configuration of the 3CX SBC
 - Provision of IP Phones

Prerequisites

- Covered Module 1.2 Configure a local IP Phone
- Covered Module 1.3 Configure the Firewall (Server Side)
- A Supported IP Phone → IP Phone Running Minimum Firmware Version
- A Windows PC in the Remote Location
 - One LAN Static 1 IP Address (not WiFi)
 - Disable Unused Adapters
- The Remote Location **does not** require a Static Public IP Address

Supported SBC Phones

- Desktop IP Phones:
 - Fanvil
 - HTEK
 - snom
 - Yealink



Benefits of Using the 3CX SBC

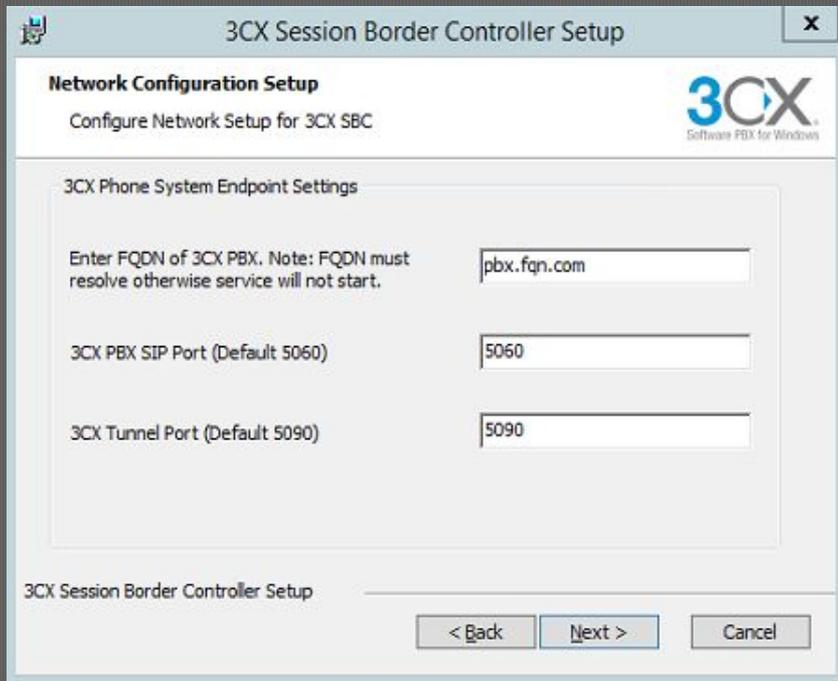
- Internal Call Capabilities **to a Group** of Remote Users
- Dropship IP Phones
- PnP Provisioning
- Traffic remain in LAN → For Phone Connected to the Same SBC
- Overcome NAT and SIP ALG Router Issues
- Encryption
- It's Free!

Collect PBX Information

- SIP Port and Tunnel Port
 - Settings → Network → **Ports**
- 3CX Tunnel Password
 - Settings → Security → **3CX Tunnel**
- Public FQDN
 - Dashboard → Information → FQDN

SBC Installation

- Get latest version from www.3cx.com
- Fill In required information
- Optional
 - Enable Encryption
 - Set Failover PBX



The screenshot shows the '3CX Session Border Controller Setup' window. The title bar reads '3CX Session Border Controller Setup' with a close button (X) on the right. The main window has a header area with the 3CX logo and the text 'Network Configuration Setup' and 'Configure Network Setup for 3CX SBC'. Below this is a section titled '3CX Phone System Endpoint Settings' which contains three input fields: 'Enter FQDN of 3CX PBX. Note: FQDN must resolve otherwise service will not start.' with the value 'pbx.fqn.com', '3CX PBX SIP Port (Default 5060)' with the value '5060', and '3CX Tunnel Port (Default 5090)' with the value '5090'. At the bottom of the window, there are three buttons: '< Back', 'Next >', and 'Cancel'.

3CX Session Border Controller Setup

Network Configuration Setup
Configure Network Setup for 3CX SBC

3CX Phone System Endpoint Settings

Enter FQDN of 3CX PBX. Note: FQDN must resolve otherwise service will not start.

3CX PBX SIP Port (Default 5060)

3CX Tunnel Port (Default 5090)

3CX Session Border Controller Setup

< Back Next > Cancel

TIP: SBC Installation

- After Install of the SBC
 - Navigate to C:\ProgramData\3CX\SBC\3cxsvc.conf
 - Edit and uncomment the following Lines
 - #LocalSipAddr=XXX.XXX.XXX.XXX
→ LocalSipAddr=192.168.1.10 (IP off SBC host)
 - #LocalSipPort=XXXX
→ LocalSipPort=5060
 - Restart the 3CX SBC Service

IP Phones Provisioning (PnP)

- Boot Phone in the remote location
 - From the 3CX Management Console Answer PnP Request
 - Assign to existing extension or Create New
 - Done
- **Note:** Provisioning uses HTTPs Ports of PBX → Not Tunneled via SBC !



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More Training Material at:
<http://www.3CX.com/3CXAcademy/>

