

Gear up your PBX

Cut Costs, Boost Profits

Version 20160711

Remote IP Phone Extensions (STUN)



Goal of this Module

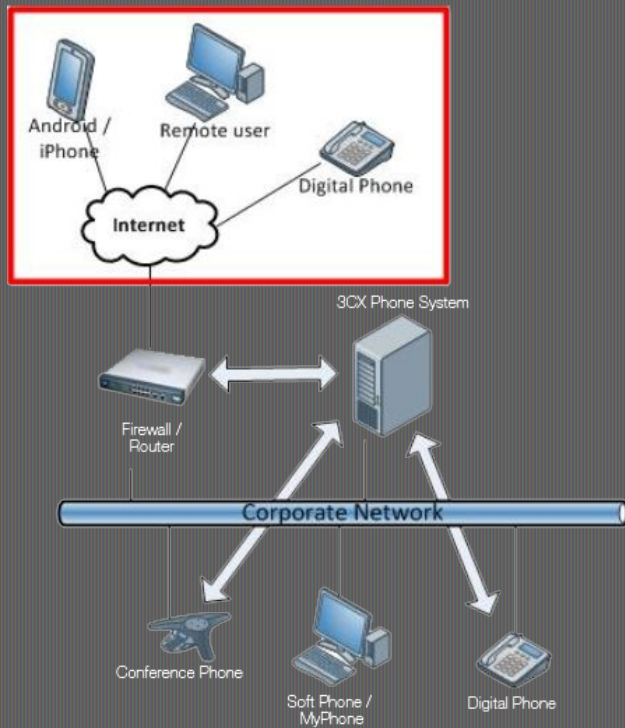
- Correctly Implement IP Phones in remote Locations using STUN
- Configuration of Remote Firewall
- Provision a remote STUN extension
- Usage of RPS

Prerequisites

- Covered Module 1.3 Configure the Firewall (Server Side)
- A Supported IP Phone → IP Phone Running Minimum Firmware Version
- Functioning Mail Server (SMTP) → End User Needs to have Welcome Email
- Access to Remote Firewall/Gateway

Supported STUN Phones

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



Benefits Using Teleworker (STUN)

- Internal Call Capabilities to Remote Users
- Dropship IP Phones
- No Additional Hardware Required
- Autodiscovery of your 3CX

Provisioning STUN Extensions - Admin

- Create/ Configure extension in 3CX
 - Make/Model
 - MAC Address
 - Remote Ports
- Increment SIP/RTP ports for each subsequent device
- Uncheck: Options → “Disallow use outside of LAN”
- Advice: Create NAT in remote Firewall → IP Phone
- Send Welcome Email

IP Phone

Provisioning Method

Direct SIP (STUN - remote) ▼

Provisioning Link: <https://company.3cx.eu/provisioning/pc56bscs195k/cfg{mac}>

Mac Address

0004137040B4

Select Interface

company.3cx.eu ▼

What is STUN?

- STUN (Session Traversal Utilities for NAT) is a Method to
 - Discover the Public IP Address (from a LAN)
 - Discover Firewall Port Mappings (from a LAN)
- STUN Server is your own PBX

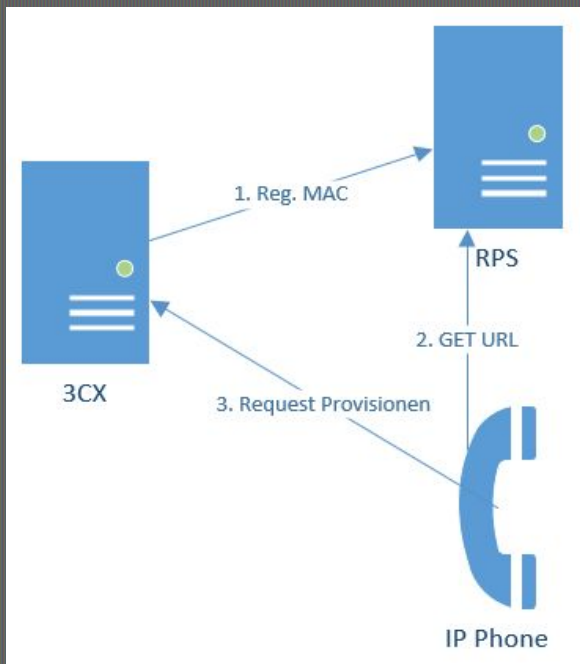
Provisioning Remote Extensions - End User

- Reset Phone (if not a new device)
- Power Up Phone At Remote Location
- Phone Prompts for Login → From Welcome Email
 - Username: Extension Number
 - Password: Voicemail PIN




What is RPS?

- Automatically triggered when Provisioning Method is STUN
- Binds MAC Addresses to (Provisioning)-URL
- Phone boots and retrieves URL
- After 2 Weeks MAC/URL is unlisted



Validate

- If STUN Extension shows the following symptoms:
 - No connection to server
 - Audio issues
 - Cannot Transfer or Hold or Resume Calls
- Check Remote Firewall for
 - SIP ALG → Disable it - Always
 - Check that NAT is Implemented
- More than One Stun Phone behind one router?
→ PBX Delivers Audio



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

