



Gear up your PBX

Cut Costs, Boost Profits

Version 20160711

Advanced Installation Options



Goal of this Module

- Custom Installs with own public FQDN and advanced Network Setups
 - Using Own FQDNs
 - Third party trusted Certificate
 - Advanced Network Setups
 - Multi NIC
 - Custom Push for Android devices

Prerequisites: Own FQDNs

- Covered Chapter “1.0 Installing 3CX”
- Public Domain
- Controllable DNS Servers
- Trusted SSL Certificate & Private Key (covering public FQDN or wild card)
- Static Public IP Address

Preparing: DNS Server (internal / external)

- Create A Record
 - External: Pointing to Public PBX IP
 - Installer: Choose 'I have my own FQDN'
 - Internal: Pointing to Internal PBX IP
 - Installer: Choose 'I manage my DNS'
- Using own Public FQDN does not imply usage of internal DNS setup

Certificate

- Ensure Third Party Root CA known to Endpoints
- Must Cover Public FQDN
- Supported Formats
 - Crt and Key file
 - PFX Container file
- Guide on how to use your own certificate:
<http://www.3cx.com/docs/fqdn-ssl-certificate-v15/>

Relation between License Key and FQDN

- Upon activation:
 - License **is bound** to the FQDN
 - Owner of the License receives email with ERP credentials
- Result:
 - No other user can use that FQDN
 - License Key cannot be used with different FQDN
- To **release** License Key from FQDN:
 - Go to: <https://customer.3cx.com/>
 - Login using ERP credentials for that Key

Changing FQDN / Keep current License Key

- Take a backup without
 - Include License Key Information & FQDN
- Release FQDN from License Key
- Reinstall
 - Restore backup
 - Enter **old** License Key
 - Enter **new** FQDN

Changing License Key / Keep current FQDN

- Take a backup without
 - Include License Key Information & FQDN
- Release FQDN from **old** License Key
- Reinstall
 - Restore backup
 - Enter **new** License Key
 - Enter **old** FQDN

Changing FQDN & License Key

- Take a backup without
 - Include License Key Information & FQDN
- Reinstall
 - Restore backup
 - Enter **new** License Key
 - Enter **new** FQDN

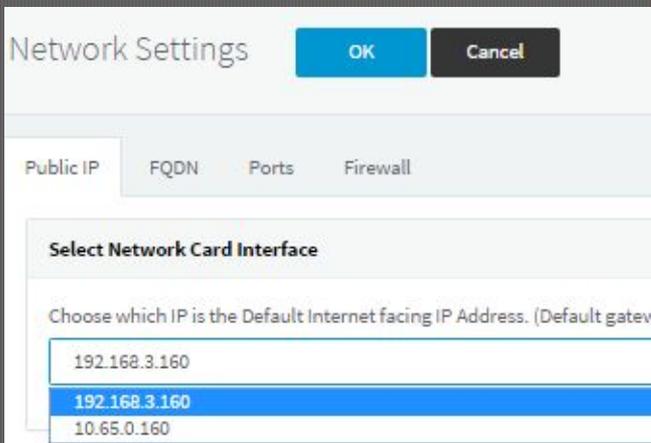
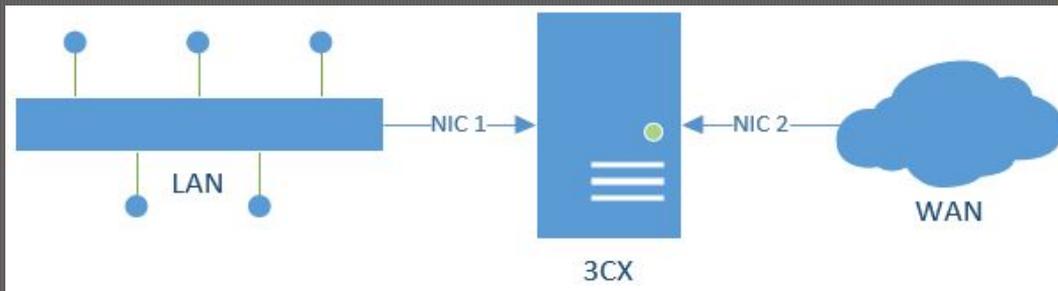
Multiple Network Interfaces

- General Rules:
 - 1 IP Per Network Interface
 - 1 Default Gateway across all Interfaces
 - For Multiple Gateways use 'ADD ROUTE'
 - Learn More about the Traffic Flow

<http://www.3cx.com/blog/docs/network-configurations-supported-3cx-phone-system/>

TIP: WAN and LAN Interface

- PBX has Public and Private Interface
- Installing 3CX
 - Approve Public IP (NIC 2)
 - Set Local internal IP (NIC 1)
 - Change WAN Facing NIC 1 after to NIC 2



Own Android Push Account

- Requires Google Account (Gmail)
Configure it first → then send Welcome Email
- Follow How To Guide:

<http://www.3cx.com/docs/configuring-google-push/>

Push

Google PUSH Cloud Messaging for 3CXPhone for Android

Push messages wake up 3CX clients on smartphones so that a call can be accepted, reducing battery usage and improving reliability. Android phones receive PUSH notifications from Google Cloud Messaging Server.

Google PUSH is pre-configured using a common test account. It is highly recommended to create your own Google API Project via the Google Cloud Platform. [Click here](#)

API Key

Project Number (GCM Sender ID)



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

