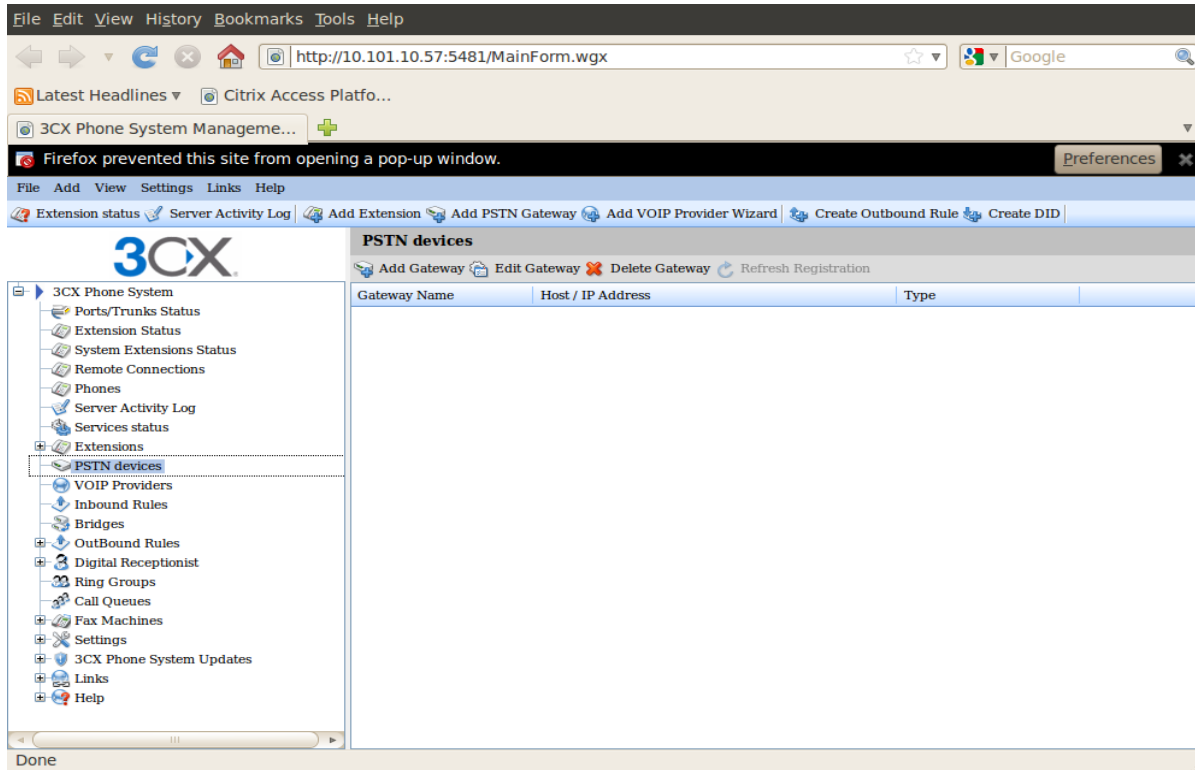




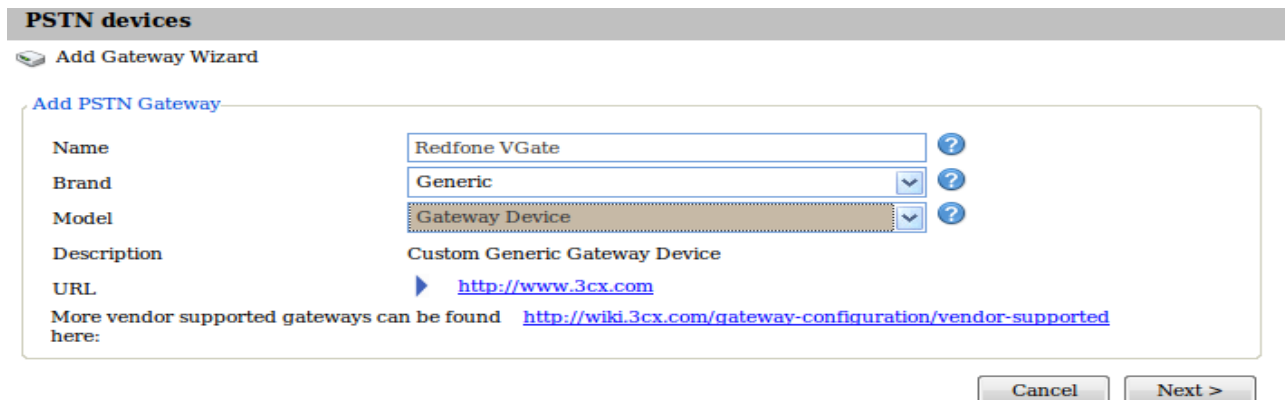
Redfone VGate Integration with 3CX PBX



1.) From 3CX admin GUI, select *PSTN* Devices and then *Add Gateway*



2.) Enter a friendly name for your device. Under *Brand*, select *Generic* and click on *Next*.



3.) In *Gateway Hostname or IP* input the IP of the Redfone VGate. Under *type* select either T1 or E1 according to the type of line your provider has provisioned. T1 is primarily North America and E1 is typically everywhere else. Once all fields are complete, select *Next*.

PSTN devices

Specify VoIP Gateway Details

VOIP Gateway

Gateway Hostname or IP	<input type="text" value="10.101.10.60"/>	?
Gateway Port (default is 5060)	<input type="text" value="5060"/>	?
Number of ports	<input type="text" value="1"/>	?
Type	<input type="text" value="T1"/>	?
Number of channels per port	<input type="text"/>	?

4.) Just click next on the *Create Ports* screen accepting the default values or change the password as you see fit.

PSTN devices

Create ports

The following ports will be created in the "Create Ports" screen. You can edit the Port identification and authentication settings before they are created. Note that port identification is used for identification purposes, and the internal line number is used by 3CX Phone System to address the line connected to the port on the VOIP Gateway. Therefore the Internal Line Number range should be different from the extension number range. You can configure to which extension incoming calls should be routed based on whether they are inside or outside office hours (inbound route).

Remove selected	Virtual extension	Authentication ID	Authentication Password	Channels	Port Identification	Inbound Route Day	Inbound
<input type="checkbox"/>	10000	10000	10000	23	10000	1000	<input type="text" value="1000"/>

5.) In the next screen you can assign Prefix dialing, extensions that will be allowed to use this Gateway and length of allowable numbers to call. See example below; Once complete select *Finish*.

↓ Create an Outbound Call Rule to configure on which PSTN port, VOIP provider or bridge an outbound calls should be placed on

General

Rule Name ?

Apply this rule to these calls

Define to which outbound calls the rule must apply

Calls to numbers starting with (Prefix) ?

Calls from extension(s) ?

Calls to Numbers with a length of ?

Make outbound calls on

Configure up to 3 routes for calls. The second and third route will be used as backup. For each route, digits can be stripped or added.

Route		Strip Digits	Prepend
Route 1	<input type="text" value="Redfone VGate"/>	<input type="text" value="1"/>	<input type="text"/>
Route 2	<input type="text"/>	<input type="text" value="1"/>	<input type="text"/>
Route 3	<input type="text"/>	<input type="text" value="1"/>	<input type="text"/>

6.) Open the Redfone VGate GUI. Go to *System* and then select *Configure*.

Overview Status **System** Network Changes: 0 Admin

Redfone

Fonebridge Configuration

GLOBALS

Model ? select fonebridge model

Fonebridge IP ? the fonebridge's ip address x.x.x.x format

Fonebridge MAC ? the fonebridges mac address xx:xx:xx:xx:xx:xx format

Port ? ethernet port used on the fonebridge

TDMoE Network Interface Card ? NIC used for fonebridge Ex: eth1

Server MAC ? the server's mac address xx:xx:xx:xx:xx:xx format

Clock Source ? span to use as clock source

- 7.) Scroll down to the **SIP Settings** and input the IP address of your 3CX PBX in the *Remote SIP server's IP 1*, enable *Sip Registration* and input the *Sip Username* *Sip Password* of the Gateway device which was just added to 3CX.

Sip Settings	
SIP	
Remote SIP server's IP 1	<input type="text" value="10.101.10.57"/> <small>the SIP server's ip address x.x.x.x format</small>
Remote SIP server's IP 2	<input type="text"/>
Remote SIP server's IP 3	<input type="text"/>
Remote SIP server's IP 4	<input type="text"/>
SIP Network Interface Card	<input type="text" value="eth0"/> <small>NIC used for SIP traffic Ex: eth0</small>
Sip Registration	<input type="text" value="enable"/>
Sip Username	<input type="text" value="10000"/>
Sip Password	<input type="text" value="10000"/>

- 8.) Now scroll down to the *Span Configuration* area and configure the individual T1/E1 lines according to the information supplied by your telco provider. The below example is for a typical North American T1 implementation;

Span Configuration	
SPAN1	
Type	<input type="text" value="T1"/>
Framing	<input type="text" value="esf"/>
Encoding	<input type="text" value="b8zs"/>
crc4	<input type="text" value="no"/>
Signalling	<input type="text" value="CPE"/>
Switch Type	<input type="text" value="US National ISDN-2 PRI"/>
SPAN2	
Type	<input type="text" value="T1"/>
Framing	<input type="text" value="esf"/>
Encoding	<input type="text" value="b8zs"/>
crc4	<input type="text" value="no"/>
Signalling	<input type="text" value="CPE"/>
Switch Type	<input type="text" value="US National ISDN-2 PRI"/>

- 9.) Once all information on this page has been completed, select *Save and Apply* at the bottom right hand corner of the screen. Return to the top menu *Configuration* option followed by *Apply Changes* and then finally *Configuration* and then *Reboot*.
- 10.) Once VGate has rebooted, login and verify the T1/E1 lines are active and free of alarms by selecting *System, Query foneBRIDGE*. If all parameters are configured properly and the foneBRIDGE2 has been cabled correctly to the telco lines you should see results like these;

Redfone VGATE
Virtualized ISDN to SIP Gateway

Overview Status **System** Network

Detecting foneBRIDGE
 SW ver: 2.2.1
 SW Compile date: Jun 28 2009 22:43:31
 SW Build: 65
 MAC Address: 00:50:c2:65:d2:c6
 IP Address[0]: 192.168.1.4
 IP Address[1]: 192.168.1.5
 DSP Status: Bypassed
 Span 1 configured as: T1,ESF,B8ZS OK
 Span 2 configured as: T1,ESF,B8ZS OK
 Span 3 configured as: T1,ESF,B8ZS OK
 Span 4 configured as: T1,ESF,B8ZS OK

- 11.) Return to the 3CX GUI and select *Ports/Trunks Status* to confirm the Redfone VGate has registered properly with 3CX.

3CX

Ports/Trunks Status

Disconnect Call

Status	Virtual Extension Num:	Type	Name
Registered (idle)	10000	Gateway	Redfone VGate

3CX Phone System

- Ports/Trunks Status
- Extension Status
- System Extensions Status
- Remote Connections
- Phones
- Server Activity Log
- Services status
- Extensions
- PSTN devices
- Redfone VGate
 - 10000

