

A. Configure OneStream:

1. Add SIP extension group to allow 3CX PBX to register to OneStream with  
 Username: 3cx  
 Password: 3cxpassword

Interface Type

Name

**SIP Extension**

**Options**

SIP Port (default 5060)   
 NAT Traversal   
 Call Limit (0=unlimited)

**Extensions**

	<b>Username</b>	<b>Password</b>
1	<input type="text" value="3cx"/>	<input type="password" value="••••••••••"/>
	<input type="button" value="New Extension"/>	

Show Advanced Options

2. Add Routes – 2 routes are required to allow Inbound and Outbound calls between the PBX and GSM:

Route	From Group	Dest. Addr.	Orig. Addr.	To Group	Mod. Dest.	Mod. Orig.	ACT	CB	Split/Fail
GSM > 3CX PBX	GSM	s	-	3CX PBX	-	-	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3CX PBX > GSM	3CX PBX	?	-	GSM	-	-	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>



























## B. Configure 3CX PBX

1. Click on “VOIP Providers”, “Add Provider”
2. Enter a name for the provider (e.g. OneStream), select “Generic SIP Trunk” and click Next

Add VOIP Provider Wizard

Name of Provider  ?

**Choose a Provider:**

<input type="radio"/>		<a href="#">Actio.pl</a>	PL
<input type="radio"/>		<a href="#">Broadvox Fusion (IP Based)</a>	US
<input type="radio"/>		<a href="#">Broadvox Fusion (Register)</a>	US
<input type="radio"/>		<a href="#">CallCentric</a>	US
<input type="radio"/>		<a href="#">Cbeeyond</a>	Worldwide
<input type="radio"/>		<a href="#">CellIP</a>	SE
<input type="radio"/>		<a href="#">EasyCall</a>	GR
<input type="radio"/>		<a href="#">Engin</a>	AU
<input type="radio"/>		<a href="#">G7Eleven</a>	IE
<input checked="" type="radio"/>		<a href="#">Generic SIP Trunk</a>	
<input type="radio"/>		<a href="#">Generic VoIP Provider</a>	
<input type="radio"/>		<a href="#">InPhonex</a>	Worldwide
<input type="radio"/>		<a href="#">nettel</a>	DK
<input type="radio"/>		<a href="#">Nexvortex</a>	US
<input type="radio"/>		<a href="#">Orbtalk</a>	UK
<input type="radio"/>		<a href="#">Prionet</a>	NL
<input type="radio"/>		<a href="#">SipCall</a>	DE, CH
<input type="radio"/>		<a href="#">SIPNET</a>	RU
<input type="radio"/>		<a href="#">Skype for SIP Beta</a>	Worldwide
<input type="radio"/>		<a href="#">Spitfire</a>	UK
<input type="radio"/>		<a href="#">VOIP Voice</a>	IT
<input type="radio"/>		<a href="#">Voip-Unlimited</a>	UK
<input type="radio"/>		<a href="#">Voz Telecom</a>	ES
<input type="radio"/>		<a href="#">Weepee</a>	BE
<input type="radio"/>		<a href="#">Wide VOIP</a>	FR, LU
<input type="radio"/>		<a href="#">XeloQ</a>	Worldwide

More 3rd party tested providers can be found here: <http://wiki.3cx.com/voip-provider/3rd-party-supported>

3. Enter the IP Address of the OneStream in the “SIP server hostname or IP” field and click Next

VOIP Provider Details:

Enter the hostname and port for your VOIP Provider's SIP Server

SIP server hostname or IP	<input type="text" value="192.168.102.91"/> ?
SIP Server port	<input type="text" value="5060"/> ?
Outbound proxy hostname or IP	<input type="text"/> ?
Outbound proxy port (default is 5060)	<input type="text" value="5060"/> ?

4. Fill in the account details as follows and click Next:

External Number = any number (not important but must be entered)


Authentication ID = Username in OneStream SIP Extension group (3cx)

Authentication Password = Password in OneStream SIP Extension group (3cxpassword)

Maximum simultaneous calls = 2

#### Account Details

Enter the Authentication ID, Password and number of your account

External Number	<input type="text" value="123"/>	
Authentication ID	<input type="text" value="3cx"/>	
Authentication Password	<input type="password" value="*****"/>	

#### Simultaneous Calls

Maximum simultaneous calls	<input type="text" value="2"/>	
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5. Choose the destination for incoming calls from GSM and click Next

#### Office Hours

Configure where calls should be routed during office hours.

<input type="radio"/> End Call		
<input checked="" type="radio"/> Connect to Extension	<input type="text" value="100 xtn 100"/>	
<input type="radio"/> Connect to Queue / Ring Group	<input type="text"/>	
<input type="radio"/> Connect to Digital Receptionist	<input type="text"/>	
<input type="radio"/> Voicemail box for Extension	<input type="text" value="100 xtn 100"/>	
<input type="radio"/> Forward to Outside Number	<input type="text"/>	
<input type="radio"/> Send fax to email of extension	<input type="text" value="email of extension 888"/>	

Same as Out of Office hours

6. Create a rule for calls to mobile phones by entering the following details and click Finish:

- Calls to numbers starting with = prefix for gsm calls
- Calls from extensions = range of extensions (e.g. 100-105)
- Route 1 > select OneStream trunk and set Strip Digits = 0

General

Rule Name  ?

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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  ?

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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
1	<input type="text" value="OneStream"/>	<input type="text" value="0"/>	<input type="text"/>
2	<input type="text"/>	<input type="text" value="1"/>	<input type="text"/>
3	<input type="text"/>	<input type="text" value="1"/>	<input type="text"/>

7. Edit the newly created VOIP provider and click on the "Advanced" tab.  
Set the following options and click OK:

- Require registration for = In and Outgoing calls
- Which IP to use = Internal

General | **Advanced** | Outbound Parameters | Inbound Parameters | Source ID | DID

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Provider Capabilities

Configure options related to the SIP capabilities of your provider

Supports Re-Invite  ?

Supports 'Replace'  ?

PBX Delivers Audio  ?

Switch on Secure RTP (SRTP)  ?

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Registration Settings

Configure options related to the SIP capabilities of your provider

Time between registration attempts (in seconds)  ?

Require registration for:  ?

Which IP to use in 'Contact' field for registration:

External(STUN resolved) ?

Internal ?

Specified IP  ?

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Codec priorities

Specify which codecs to use and according to which priority.

Available Codecs	Assigned Codecs
<input type="text" value="Speex"/>	<input type="text" value="G.711 U-law"/>
<input type="text" value="iLBC"/>	<input type="text" value="G.711 A-law"/>
	<input type="text" value="GSM-FR"/>

Buttons: Add > < Remove, Up, Down

8. Edit the VOIP Provider and click on the "Source ID" tab

Under "SIP Field" select "From : Host Part"

Under "Variable" select "GWHostPort"

Click "Add/Update" and then OK to confirm

General | Advanced | Outbound Parameters | Inbound Parameters | **Source ID** | DID

Call Source Identification  
The source of incoming calls must be identified. Configure how 3CX Phone System should identify calls from this provider.

Matching Strategy: Match All Fields

SIP Field: From : Host Part | Variable: "GWHostPort" gateway/provider host/port

Buttons: Add/Update, Delete, Clear Selection

SIP Field	Variable	Custom Value
From : Host Part	"GWHostPort" gateway/provider host/port	

Source identification by DID  
If Call Source identification is based on dialled number and DIDs are in use, you need to specify these DIDs here. Specify a Mask, or select individual DIDs

SIP Field containing DID numbers: Request Line URI : User Part

Source Identification by DID

Buttons: Add Mask, Add DID, Delete

Configuration is now complete – confirm that registration is successful by viewing the OneStream Home/Status Page:

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## SIP Extensions

Username	IP Address	Status
<b>3cx</b>	<b>192.168.102.66</b>	<b>Registered</b>

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