



FreePBX Guide – sip.ortalk.co.uk

Configuration of your Orbtalk Trunk with Free PBX

Firstly, on your FreePBX system, Hover over 'Connectivity' and then navigate to 'Trunks' (Screenshot Below)

The screenshot shows the FreePBX system interface. The top navigation bar includes 'Admin', 'Applications', 'Connectivity', 'Reports', 'Settings', and 'User Panel'. The 'Connectivity' menu is open, showing options like 'DAHDI Channel DIDs', 'DAHDI Config', 'Digium Phones', 'Inbound Routes', 'Outbound Call Limit', 'Outbound Routes', 'SIPSTATION', and 'Trunks'. The 'Trunks' option is highlighted. Below the menu, there are several widgets: 'FreePBX Statistics' showing 0 total active calls, internal calls, external calls, and total active channels; 'FreePBX Connections' showing 3 connections (2 SIP Phones Online, 1 SIP Phone Offline); 'Uptime' showing system uptime of 23 hours, 33 minutes and Asterisk uptime of 23 hours, 26 minutes; 'System Statistics' showing processor load average of 0.08, CPU at 1%, memory at 42%, and disk usage at 14%; and 'Server Status' showing Asterisk, MySQL, Web Server, and SSH Server all as 'OK'.

Next, Click 'Add SIP Trunk', you will need to give your Trunk a Name (Orbtalk for example) and also set your outbound caller ID to a number associated with your trunk. Next are the peer details, which are outlined below the screenshot, these are required for outbound and registration via the trunk.

The screenshot shows the 'Add a Trunk' menu in the FreePBX system interface. The top navigation bar is the same as in the previous screenshot. The menu options are: 'Add SIP Trunk', 'Add DAHDI Trunk', 'Add IAX2 Trunk', 'Add ENUM Trunk', 'Add DUNDi Trunk', and 'Add Custom Trunk'. The 'Add SIP Trunk' option is highlighted.

Peer Details:

```
host=sip.orbtalk.co.uk
username=***USERNAME***
secret=***PASSWORD***
type=peer
nat=yes
insecure=very
dtmfmode=RFC2833
allow=alaw&ulaw
port=5060
fromuser=***USERNAME***
fromdomain=sip.orbtalk.co.uk
context=from-trunk
```

Underneath the peer details, at the bottom of your current page is the register string, which the configuration is below, an example of the peer configuration is below;

```
***USERNAME***:***PASSWORD***@sip.orbtalk.co.uk:5060/***USERNAME***
```

Admin Applications Connectivity Reports Settings User Panel

Edit SIP Trunk

Delete Trunk OrbtalkDemo

In use by 1 route

General Settings

Trunk Name	<input type="text" value="OrbtalkDemo"/>
Outbound CallerID	<input type="text" value="NUMBER"/>
CID Options	<input type="text" value="Allow Any CID"/>
Maximum Channels	<input type="text" value="10"/>
Asterisk Trunk Dial Options	<input type="text" value="Tt"/> <input type="checkbox"/> Override
Continue if Busy	<input type="checkbox"/> Check to always try next trunk
Disable Trunk	<input type="checkbox"/> Disable

Dialed Number Manipulation Rules

(prepend) + prefix | match pattern

Dial Rules Wizards:

Outbound Dial Prefix:

Outgoing Settings

Trunk Name:

PEER Details

```
host=sip.orbtalk.co.uk
username=USERNAME
secret=PASSWORD
type=peer
nat=yes
insecure=very
dtmfmode=RFC2833
allow=alaw6ulaw
port=5060
fromuser=USERNAME
fromdomain=sip.orbtalk.co.uk
context=from-trunk
```

Next, hover over 'Connectivity' and then go to 'Outbound Routes', You will need to give your route a name, along with a number you wish to present when dialling outside of the system. An example configuration is below in the next screenshot;

Route Settings

Route Name: externaldemo

Route CID: NUMBER Override Extension

Route Password:

Route Type: Emergency Intra-Company

Music On Hold?: default

Time Group: ---Permanent Route---

Route Position: Last after externaldemo

Additional Settings

Call Recording: Allow

PIN Set: None

Extension Routes

Extension Routes is not registered
The free Extension Routes module is installed, but not registered.

Dial Patterns that will use this Route

() +	(prepend) + prefix	[match pattern]	/ CallerID

+ Add More Dial Pattern Fields

Dial patterns wizards: (pick one)

Export Dialplans as CSV: Export

Trunk Sequence for Matched Routes

0	1
OrbtalkDemo	



Add Trunk

Inside of the 'Dial Patterns that will use this route' you would need to match the pattern of the format your dialling, as above in the screenshot, I'm using "0." Which will route anything that starts with a zero to the 'Trunk Sequence for Matched Routes' which is the trunk configuration we setup earlier.

At this point, you should click 'Save Settings' on the top bar of FreePBX, which will reload all services and configuration files (after this point your trunk should be registered). Please register as an extension and test this before the next step.

Next, we will configure inbound rules, hover over 'Connectivity' and then navigate to 'Inbound Routes', Next enter a description of the route in the example below I have named this inbound. The DID number is the number assigned to your account. The CallerID Number is to only allow a certain CLI to dial into the number, in the below example I've left this blank so it accepts any CLI into the system.

Route: Inbound

-  Delete Route Inbound
-  Edit Extension 110 (110)

- DAHDI Channel DIDs
- DAHDI Config
- Digium Phones
- Inbound Routes**
- Outbound Call Limit
- Outbound Routes
- SIPSTATION
- Trunks

Edit Incoming Route

Description :	<input type="text" value="Inbound"/>
DID Number :	<input type="text" value="441273613998"/>
CallerID Number :	<input type="text"/>
CID Priority Route :	<input type="checkbox"/>

Options

Alert Info :	<input type="text"/>
CID name prefix :	<input type="text"/>
Music On Hold :	<input type="text" value="Default"/>
Signal RINGING :	<input type="checkbox"/>
Pause Before Answer :	<input type="text"/>

Now your inbound and outbound connections should be working via the Orbtalk SIP Trunk. If you have any issues with your configuration, please call support on 08001017000 option 2.