OpenScape Business

How to Configure SIP Trunk for KCOM

UK

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Table of History

Date	issue	Changes
31.03.2016	1	First version
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Note: The basis for this document is the current OpenScape Business at the time of certification. Since OpenScape Business is constantly developed, input masks and interfaces as well as requirements may change in the future. The settings and entries described here then apply accordingly.

1 Introduction

The purpose of this document is to provide an aide memoir for the configuration of SIP trunks for the KCOM ITSP in the UK.

2 Configuration

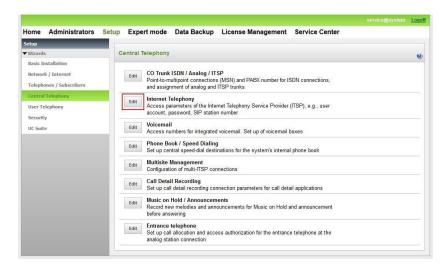
Most of the configuration should be carried-out using the built-in configuration wizards within OpenScape Business Assistant. Launch OpenScape Business Assistant and log-in.

2.1 Internet Telephony Configuration Wizard

Launch the Internet Telephony wizard, navigate to:

Setup > Wizards > Central Telephony > Internet Telephony

1. Click on the Edit button.

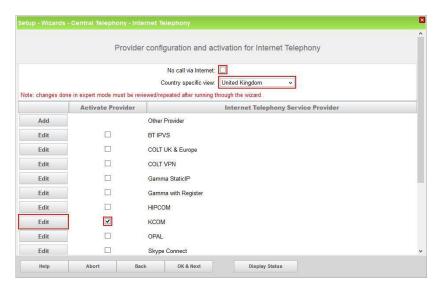


The Overview page appears for entering location data. The most flexible configuration method is to enter only the Country code on this page (e.g. 44 for the UK) and then enter the remaining digits as the DID number (minus the leading 0) against the station / group.

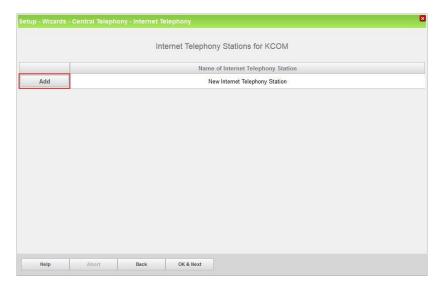


Click on the OK & Next button.

At the next page disable the No call via Internet flag and select 'United Kingdom'
using the Country specific view drop-down list. Next to 'KCOM' enable the Activate
Provider flag and then click on the Edit button.

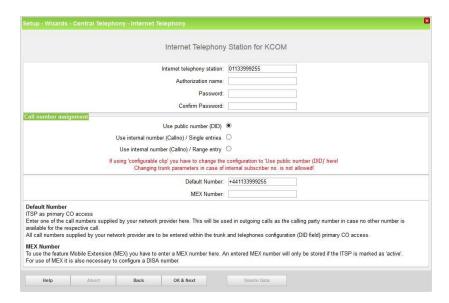


4. At the next page click on the **Add** button.



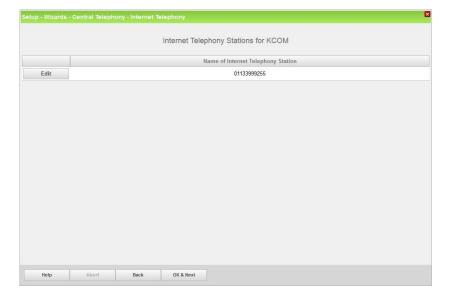
 Enter the lowest DDI number in the range provided by KCOM into the Internet telephony station box. The Authorization name, Password and Confirm Password boxes should remain empty as KCOM do not support registration, only static IP authentication is supported.

Enter the main number in the DDI range as the **Default Number**; this number will be presented as the CLI on outgoing calls from stations with no DDI number assigned. This number should be entered in canonical format for KCOM as shown in the screenshot.

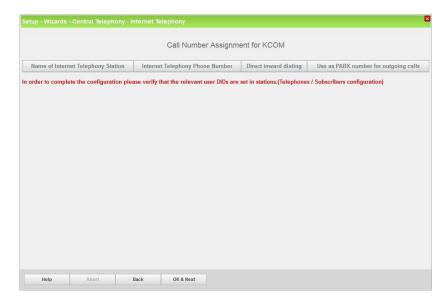


Click on the OK & Next button.

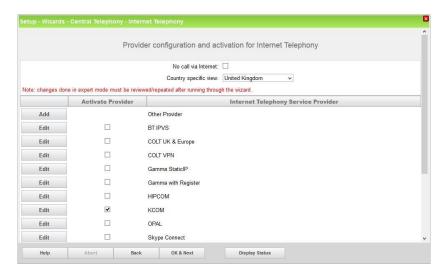
6. At the next page click on the **OK & Next** button.



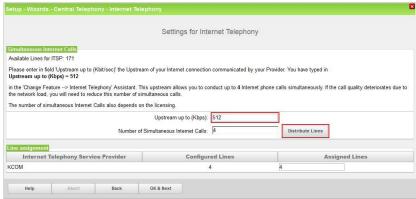
7. At the next page click on the **OK & Next** button as we are routing via the **DID** assigned directly to the station / group.



8. At the next page click on the **OK & Next** button.

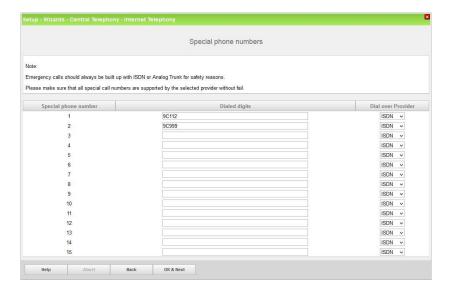


9. At the next page enter the upstream speed of your Internet connection in the Upstream up to (Kbps) box, the wizard will then automatically calculate the maximum Number of simultaneous Internet Calls possible. Click on the Distribute Lines button to automatically configure the correct number of SIP trunks.



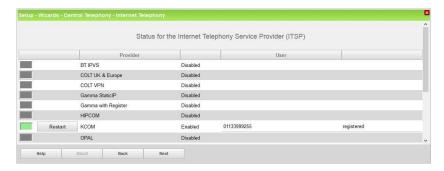
Click on the OK & Next button.

10. On the next page emergency and special numbers that cannot be routed via the ITSP must be configured. Usually emergency calls are routed via ISDN or analogue trunks if possible. However, if the customer does not have ISDN or analogue trunks then emergency calls can be routed over the ITSP trunks. If this is the case change the Dial over Provider to 'KCOM' using the drop-down list for these numbers.



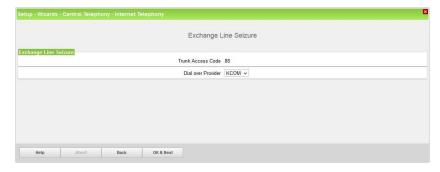
Make any required changes and then click on the **OK & Next** button.

11. At the next screen KCOM should be shown with a green indicator.



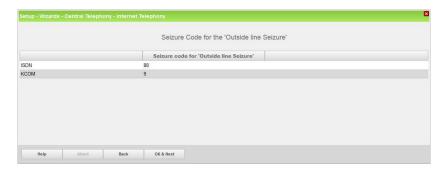
Click on the Next button.

12. At the next screen the **Trunk Access Code** for the 'KCOM' route is displayed.



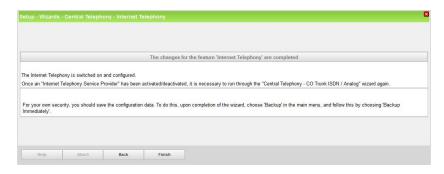
Click on the OK & Next button.

13. At the next screen the seizure codes for external calls are displayed.



Click on the OK & Next button.

14. Configuration is complete.



Click on the Finish button.

2.2 Route Configuration

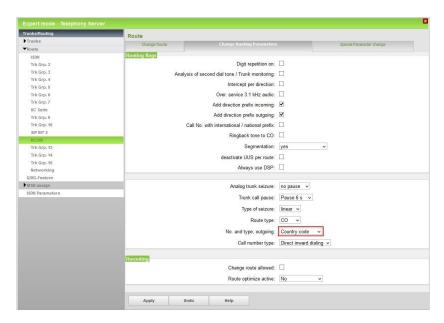
The KCOM SIP trunk route configuration will be automatically configured by the KCOM profile. However, it is worth checking that the **No. and type, outgoing** parameter is set correctly for the 'KCOM' trunk route. This parameter can be checked in **Expert mode**.

Navigate to:

Expert mode > Telephony Server > Trunks/Routing > Route

Select the 'KCOM' route in the left-hand pane and select the **Change Routing Parameters** tab in the right-hand pane.

For KCOM the **No. and type, outgoing** parameter should be set to 'Country code' using the drop-down list.



Click on the Apply button if any changes were made.

2.3 Station / Group DDI Assignment

2.3.1 Station DDI Assignment

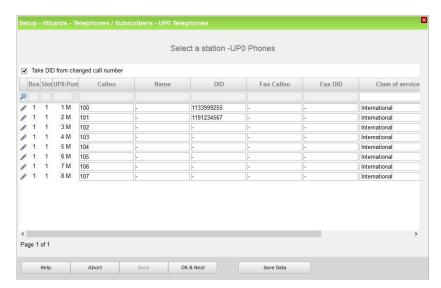
The DDI numbers provided by KCOM should now be assigned to stations' using the appropriate wizard.

Navigate to:

Setup > Wizards > Telephones / Subscribers

Select the appropriate wizard (e.g. **UP0 Telephones**) depending on the installed telephone type.

If only the **Country code** was configured in section 2.1 step 2 (recommended) then the DDI numbers provided by KCOM are entered directly at the station in the **DID** column (minus the leading 0), e.g. 01133999255 would be entered as 1133999255.



Click on the **Save Data** button after assigning all the required KCOM DDI numbers. Either click on the **OK & Next** button to continue with the wizard or close the window.

Repeat the procedure with the other wizards in this area if the customer has other telephone types and DDI numbers need to be assigned.

2.3.2 Group Call / Hunt Group DDI Assignment

DDI numbers can be assigned to group call / hunt groups using the **Group Call / Hunt Group** wizard.

Navigate to:

Setup > Wizards > User Telephony > Group Call / Hunt Group

Enter any required DDI numbers into the **DID** column of the required group call / hunt group.

Click on the OK & Next button followed by the Finish button to complete the wizard.

2.4 Multi-Site Configuration

If ITSPs are configured with different area codes (e.g. area code 0113 and 0119) either from the same ITSP or different ITSPs the system should be configured for multi-site. This allows each area code / location to be tied to a particular station and ITSP trunk route.

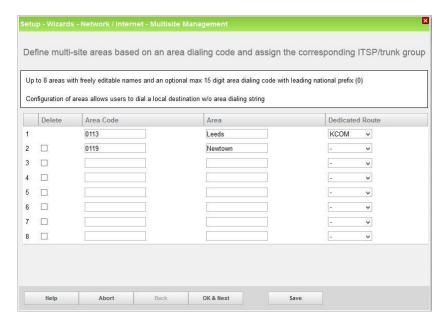
This has the advantage of allowing a station to dial a local number without the area code and the OpenScape Business system can then automatically insert the correct area code to enable the call to route successfully and also seize the correct ITSP trunk route.

Proceed as follows to configure multi-site working.

Navigate to:

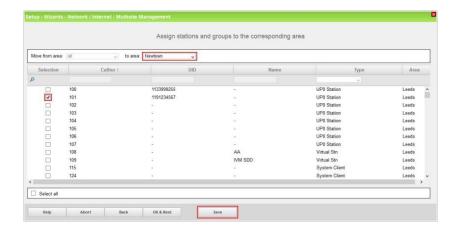
Setup > Wizards > Central Telephony > Multisite Management

Define each Area Code provided by all configured ITSPs. The Area Code at the top
of the table (default value 0) is the default area code that will be applied to all stations
(e.g. 0113). Enter additional area codes below the default entry (e.g. 0119). For each
area code enter the location in the Area field (e.g. Leeds, Newtown). Also define the
Dedicated Route to be used for each area code (e.g. 'KCOM').

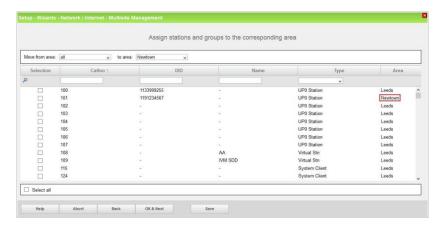


Click on the OK & Next button.

 On the next screen all stations will be set to the default Area (e.g. Leeds). Next, using the Selection flag select all stations that share one of the other area codes (e.g. Newtown). Select 'Newtown' from the to area drop-down list and click on the Save button.



The **Area** for the selected stations will now change to the selected location (e.g. Newtown).



Repeat the procedure for other stations and areas.

Click on the **OK & Next** button.

3. Configuration is complete, click on the **Finish** button.

