

AltiGen KB

PAETEC Broadsoft IP SIP Trunk Configuration Guide

March 2010 **Introduction** This document provides configuration details for integrating a PAETEC Broadsoft IP SIP Trunk with an AltiGen system.

Devices can be configured differently, depending on your VoIP solution. This document covers a basic setup with basic SIP trunking routing rules.

The guide is intended for customer service and installation personnel involved in the installation and maintenance of AltiGen's IP PBX/Softswitch systems.

Limitations

Dynamic codec configurations not supported Fax using G.711 Passthrough not supported SIP 486 Busy not supported, an announcement will be played Call Forward No Answer to external numbers (non-PBX numbers) not supported.

Requirements

AltiGen MAX Communications Server MAXCS Release 6.5.1.406

Get the following information from PAETEC:

SBC Version: Covergence 3.5.7 (G711 Codec) or Acme 6.1.0 (G729 Codec) Number of SIP Trunks: Codec Selection: [G.723 / G.729 / G.711 A-Law Mu-Law] RFC2833 Support: Must be "Yes" SIP Early Media: [enabled] SIP Transport [UDP only] SIP Server Name/IP: Domain Authentication: [yes/no] If yes, provide authentication name/password: Register Period in seconds: SIP Source and Destination Port: (source and destination "5060")

Check Your Licenses

Make sure your AltiGen server has enough SIP trunking licenses installed for the PAETEC Broadsoft connection:

Open MaxAdministrator and select License:
Scroll down until you see SIP Trunk.

If you don't have any SIP Trunk licenses or you don't have enough, please contact your AltiGen dealer before proceeding. If you purchase additional SIP trunk licenses, you can install them from the License Information window.

Configure the Codec

In MaxAdministrator, select VoIP & Enterprise Network Management.

Enterprise Manager opens. In Enterprise Manager click the Codec button.

Click the Add button to add a new codec profile, and name it PAETEC Broadsoft. 4. The primary PAETEC codec used is G.729. Using the Codec drop-down list, select Prefer G.729 support G.723.1:

Select the following settings:

Click Apply. Click Servers & IP Codec tab.

Add an IP device range. In the From and To fields, use the SIP Proxy IP address supplied by PAETEC Broadsoft. In the Codec field, select the PAETEC Broadsoft codec you configured earlier.

Enable the SIP Trunks

In MaxAdministrator, double-click the SIPSP board listed in the Board window.

The number of configured channels and licensed channels are displayed. In this example, there are 5 SIP trunk channels:

Click the SIP Trunk Configuration button. The SIP Trunk Configuration dialog box opens:

IMPORTANT: Some providers restrict outbound calls and will only accept them from numbers that are authorized (check with your provider). If this is the case then you must create a SIP Trunk Profile. You can use either the main DID or a block of DIDs provided to you by your provider. To create a SIP Trunk Profile, follow steps a-d, below. If you don't need to do this, skip to step 3. Click the SIP Trunk Profile button, name the profile PAETEC, and click OK.

The SIP Trunk Profile dialog box opens:

From the SIP Protocol Field drop-down list, select FROM Header. Select Carrier can only accept assigned numbers as Calling Number.

This will enable you to enter numbers that are authorized to call out. The number or numbers you enter can be a single DID (main number) or block of numbers or typically a DID block assigned to you by your provider. To enter a single number you may enter it under Use this as Calling Number if the Carrier cannot accept configured numbers.

To enter a block or range of numbers click the Add button and add the range of numbers.

When done, click Apply. In the SIP Trunk Configuration dialog box, click on an available SIP Trunk Channel, then click Edit.

The following dialog box appears:

Enter the SIP Server IP Address, User Name, and SIP Register Period. This account information is obtained from PAETEC. Uncheck Automatic NAT Traversal and check Enable Channel. Click OK. If subscribing to multiple SIP trunks, you can copy the same settings to other SIP channels: Highlight the source entry. Click the Copy To button.

Select the channels and click OK. If all the settings have been entered properly the trunks will show IDLE in the Trunk View:

Double-click one of your SIP-Trunks. The Trunk Configuration dialog box opens.

Configure the Trunk Access Code. Click Apply, or if you're configuring multiple trunks click Apply To.

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