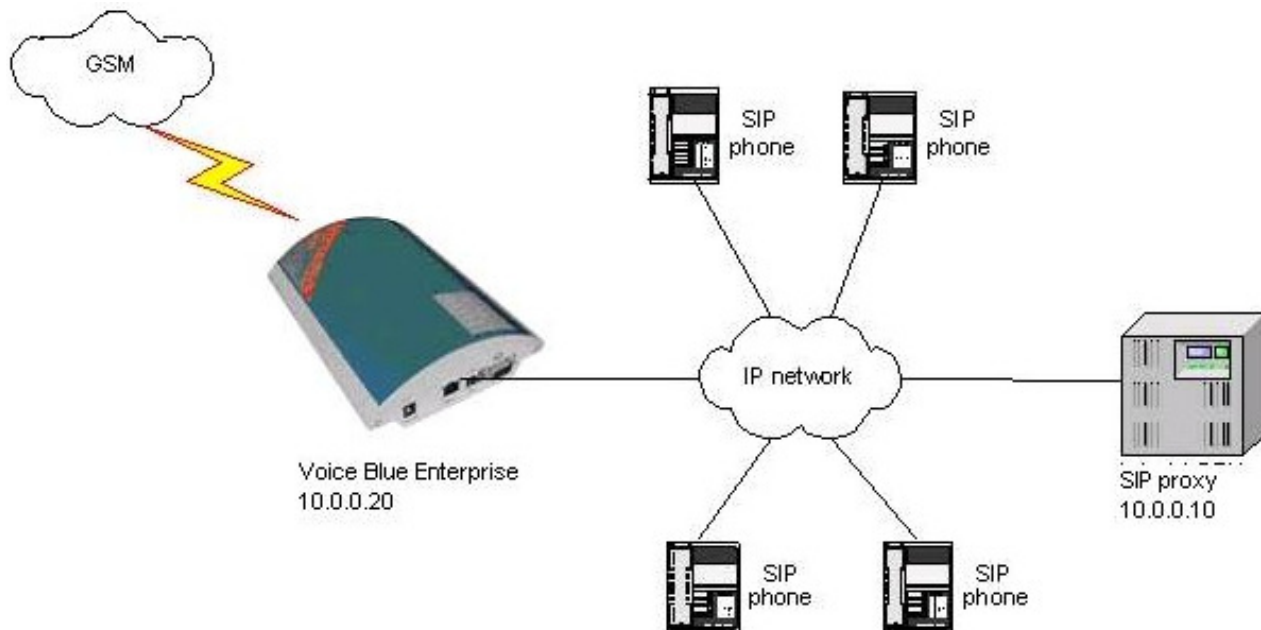


Satelco VoiceBlue Enterprise with an External SIP Proxy



Main Scenario

Suppose we have an IP network to which an SIP based VoIP PBX (SIP proxy), several SIP phones and the 2N VoiceBlue Enterprise GSM VoIP gateway are connected. Furthermore, suppose that the network is addressed as shown in the figure and GSM numbers are all 9-digit numbers starting with 6,7,8. For configuration simplicity, use SIM cards from one GSM provider or GSM carrier.



Principle

2N VoiceBlue Enterprise GSM IP gateway is registered in an external SIP proxy. All calls from the SIP proxy are forwarded to this GSM IP gateway (if the called number matches the conditions in the proxy).

Step by Step Configuration

Configuration of SIP lines

Switching and routing of calls take place among lines. In this sense, "line" is a virtual leased line? analogous to a classical telephone line. Calls come to VBE through these lines and can also be forwarded to them.

Configuration menu > Devices > SIP lines > Add SIP line

SIP server address ... SIP proxy IP address

Listening? port ... port for SIP signalling

Username ...the username under which the gateway shall be registered

Password ...registration password

Codecs ... codecs used for audio compression and transmission

SIP server address:	<input type="text" value="10.0.0.10"/>
SIP name:	<input type="text" value="VBE"/>
Display name:	<input type="text" value="VBE"/>
Listen port:	<input type="text" value="5060"/>
User name:	<input type="text" value="username"/>
Password:	<input type="password" value="*****"/>
Codecs:	<div style="border: 1px solid gray; padding: 2px;"><ul style="list-style-type: none">G.711 A Law 64000 bpsG.711 u Law 64000 bpsG.729 8000 bps</div>
Add Phone context to REGISTER request:	<input type="text"/>
Enable CLIP:	<input checked="" type="checkbox"/>
Enable NAT:	<input type="checkbox"/>
NAT port begin:	<input type="text" value="0"/>
NAT port range:	<input type="text" value="0"/>
NAT IP address:	<input type="text"/>
Description:	<input type="text"/>

Configuration of LCR

The LCR (Least Cost Router) is an automatic cost saving machine that selects the optimum output line for the called number. A suitable line is found according to the called number prefix. The call is forwarded to the first suitable route available.

Configuration menu > Time intervals > Add time range With this option, you can establish one or more time groups. The time interval can be chosen for days in a week and a certain time range.

Day group name: <input type="text"/>					
Sunday	<input type="checkbox"/>	Enable day time	<input type="checkbox"/>	From: <input type="text" value="00"/> : <input type="text" value="00"/>	To: <input type="text" value="00"/> : <input type="text" value="00"/>
Monday	<input checked="" type="checkbox"/>	Enable day time	<input type="checkbox"/>	From: <input type="text" value="00"/> : <input type="text" value="00"/>	To: <input type="text" value="00"/> : <input type="text" value="00"/>
Tuesday	<input checked="" type="checkbox"/>	Enable day time	<input checked="" type="checkbox"/>	From: <input type="text" value="17"/> : <input type="text" value="00"/>	To: <input type="text" value="23"/> : <input type="text" value="00"/>
Wednesday	<input type="checkbox"/>	Enable day time	<input type="checkbox"/>	From: <input type="text" value="00"/> : <input type="text" value="00"/>	To: <input type="text" value="00"/> : <input type="text" value="00"/>
Thursday	<input checked="" type="checkbox"/>	Enable day time	<input type="checkbox"/>	From: <input type="text" value="00"/> : <input type="text" value="00"/>	To: <input type="text" value="00"/> : <input type="text" value="00"/>
Friday	<input type="checkbox"/>	Enable day time	<input type="checkbox"/>	From: <input type="text" value="00"/> : <input type="text" value="00"/>	To: <input type="text" value="00"/> : <input type="text" value="00"/>
Saturday	<input type="checkbox"/>	Enable day time	<input type="checkbox"/>	From: <input type="text" value="00"/> : <input type="text" value="00"/>	To: <input type="text" value="00"/> : <input type="text" value="00"/>

Configuration menu > LCR > Routes > Add route

The route is the group of lines or GSM modules to which a call is forwarded.

Route name ... displays the name of the route

Lines of route ... chooses lines for call termination

Time intervals ... the time range for which the route is used (the intervals can be combined)

Basic		Limits	
Route name:	<input type="text" value="Group 1"/>		
Lines of route:	<input type="text" value="H.323 - GSM 3"/>	<input type="button" value="Add SIP line"/>	
	<input type="text" value="GSM module - 1"/>	<input type="button" value="Add H.323 line"/>	
	<input type="text" value="GSM module - 2"/>	<input type="button" value="Add SIM card"/>	
Time intervals:	<input type="text" value="everyday"/>	<input type="button" value="Add day group"/>	
	<input type="text"/>	<input type="button" value="Add time range"/>	
CLIP/CLIR:	<input type="text" value="Default"/>		
Roaming enabled:	<input type="checkbox"/>		
Roaming network number:	<input type="text"/>		
Description:	<input type="text"/>		

Configuration menu > LCR > Add

Prefix 1 (2,3,..) ... the called number prefix determines whether the call should be sent to the specified route (the dots behind the number denote a regular expression for any character - one dot represents one character).

The screenshot shows a web form titled "Add LCR table item". It contains the following fields and controls:

- Enabled:** A checkbox that is checked.
- Destination name:** A text input field containing "to GSM network".
- Prefix 1:** A text input field containing "6.....".
- Prefix 2:** A text input field containing "7.....".
- Prefix 3:** A text input field containing "8.....". To its right is a button labeled "Add next..".
- Description:** An empty text input field.

Configuration menu > LCR > Add LCR table item > Next

The screenshot shows the "Next" step of the "Add LCR table item" configuration form. It contains the following fields and controls:

- Route name:** A dropdown menu showing "Group 1". To its right is a button labeled "Add route".
- Description:** An empty text input field.

Route name ... choose the route to be used for call termination.

Configuration menu > LCR > LCR test

This option helps you test whether the settings are OK.