TECH ARTICLE

Date: 15/06/2009
Revision Date (6 months max):

Topic / Issue: MVPGSM-2 integration with IP PBX

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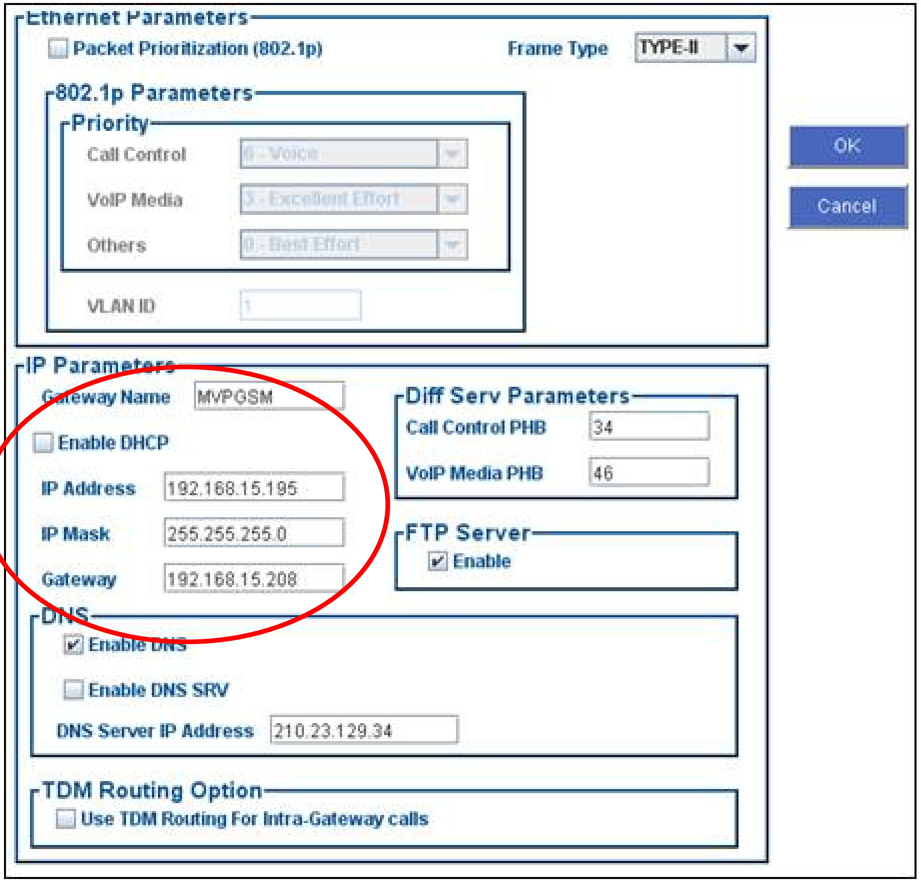
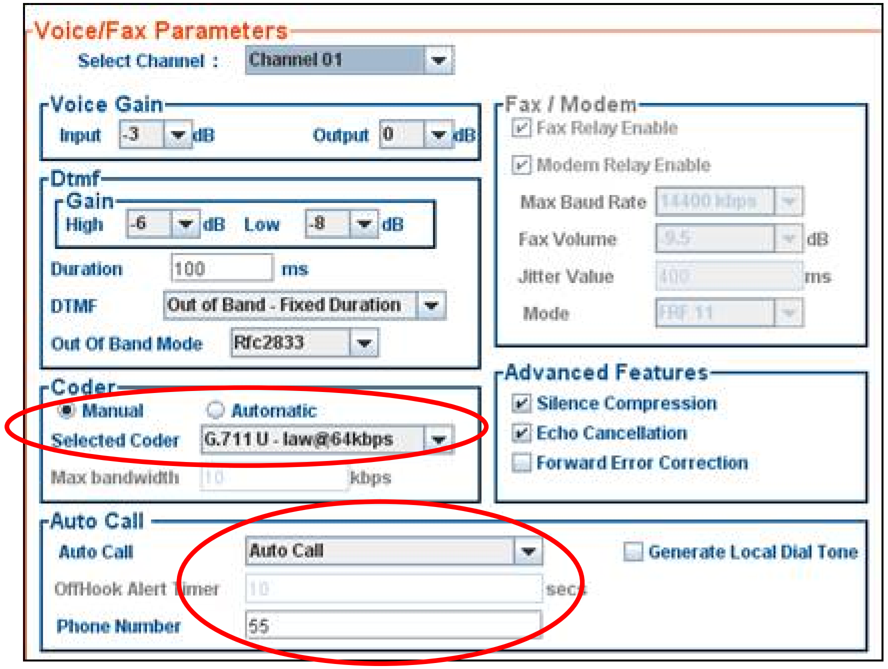
This document describes the configuration of the MVPGSM-2 GSM to SIP gateway for interfacing with an IP PBX system via the LAN. This will allow calls between the GSM network and the PBX system. Begin by logging in to the management interface of the MVPGSM-2 by browsing to the IP Address. The management PC will need to have the Java Runtime Environment installed.

Connect to the Web GUI of the MVPGSM-2 by browsing to the Ethernet (WAN) interface at the default IP Address of 192.168.3.143. Select the configuration pages shown in this document from the menu on the left of screen.



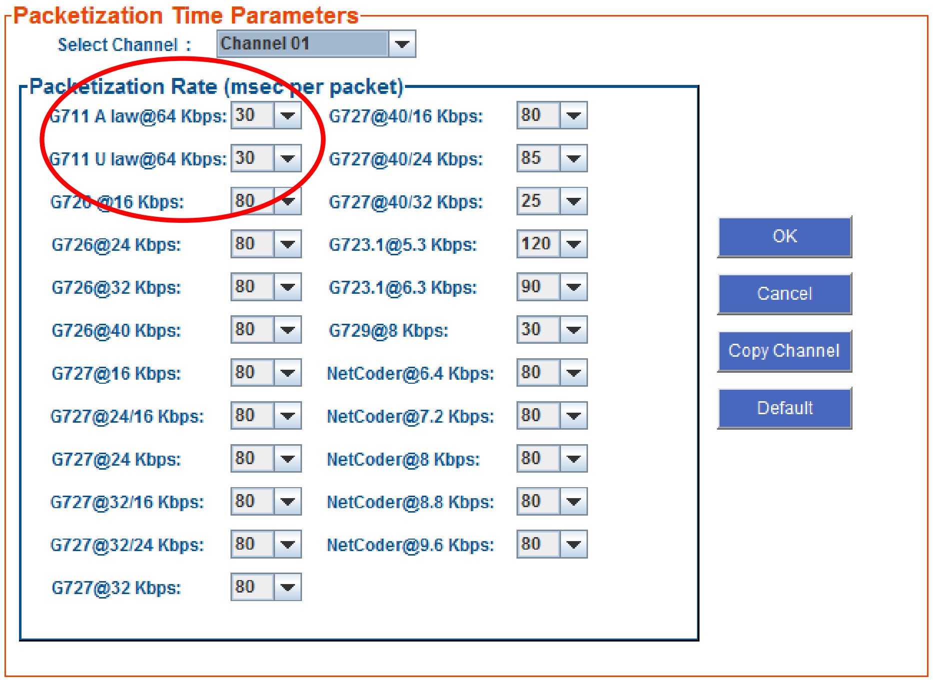
Configure the IP Address of the gateway so it is on the same subnet as your IP PBX system. You can use static IP parameters or enable DHCP so a server can assign them.

The Gateway address is the IP Address of the IP PBX.

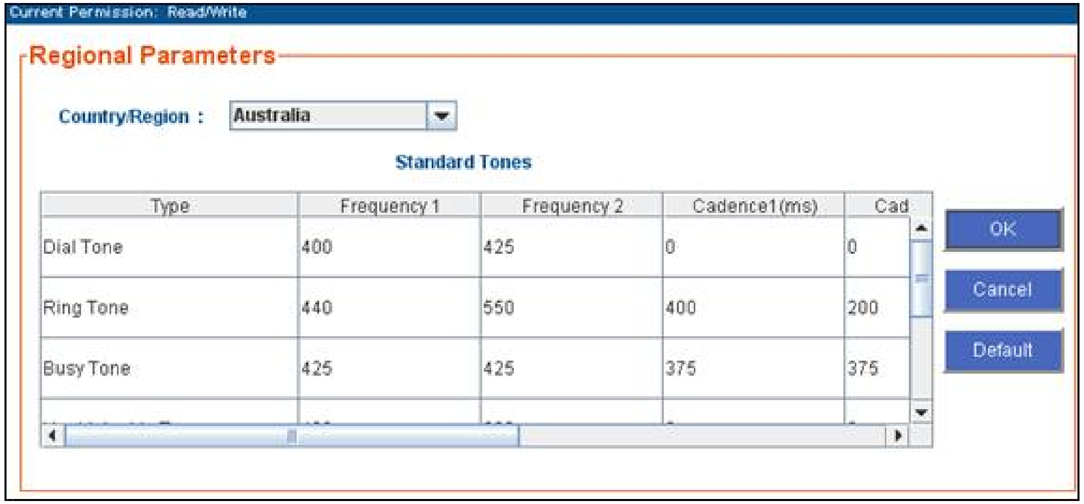


Set the desired codec.

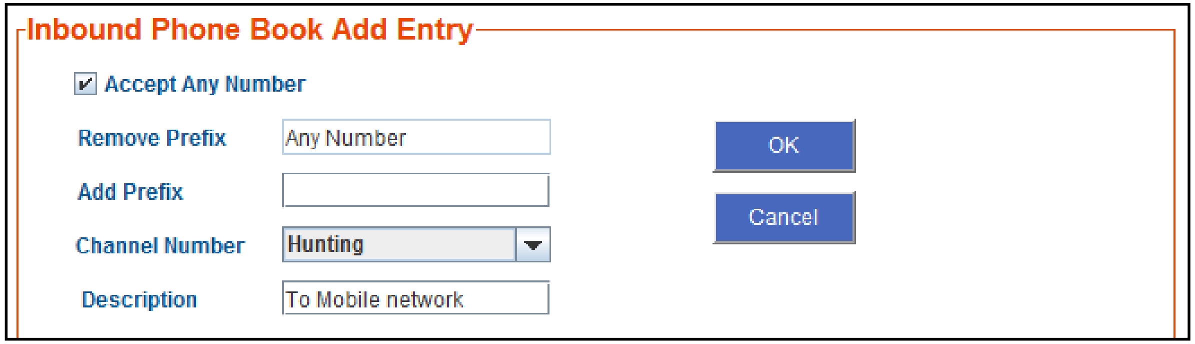
Select Auto Call and set the Phone Number as the extension number on the IP PBX that calls from the GSM network will be passed to. In the example the gateway is sending inbound GSM calls to ext 55 on the PBX.



Default Ptimes are 80ms, too high for some systems. Suggest change to 20, 30, or 40 ms for the codecs that will be used.



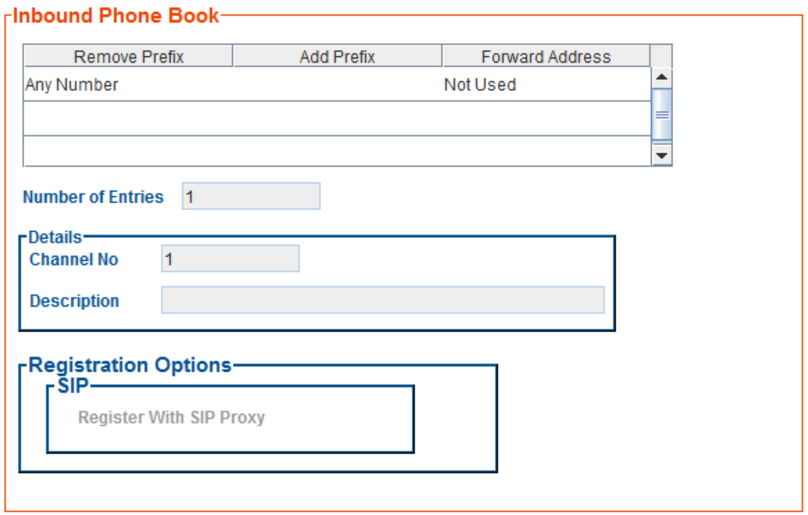
Select local Country/Region for correct telephony parameters.



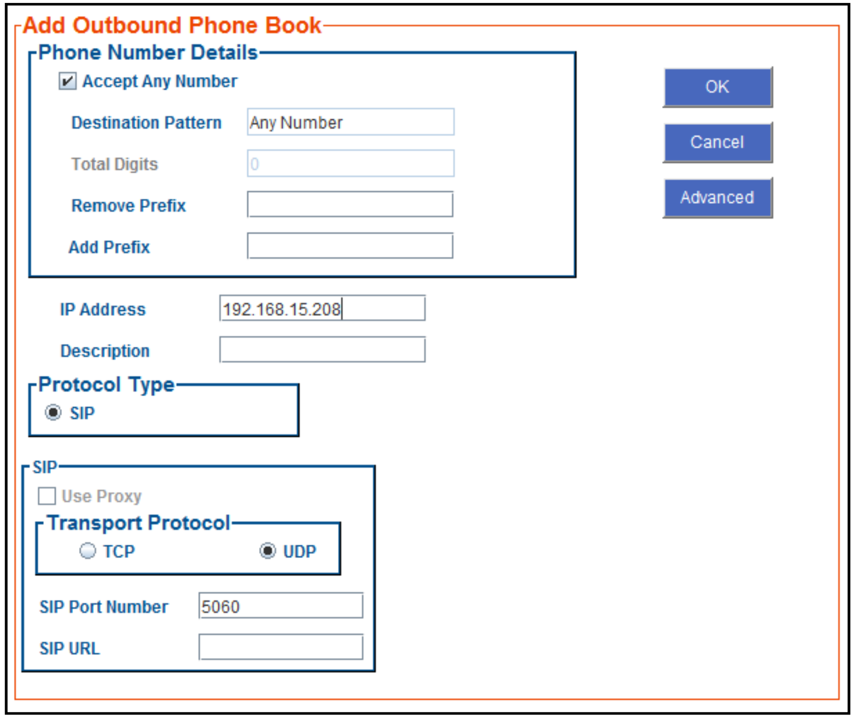
The Inbound Phone Book is for routing any incoming calls from the IP PBX to the GSM network. (Call Routing configuration on IP PBX determines which calls go to the gateway).

Add an entry using the Any Number option. The gateway will accept any digits from the PBX and place the call to the GSM network.

Select a specific channel or use hunting which will cause the gateway to select an available channel.

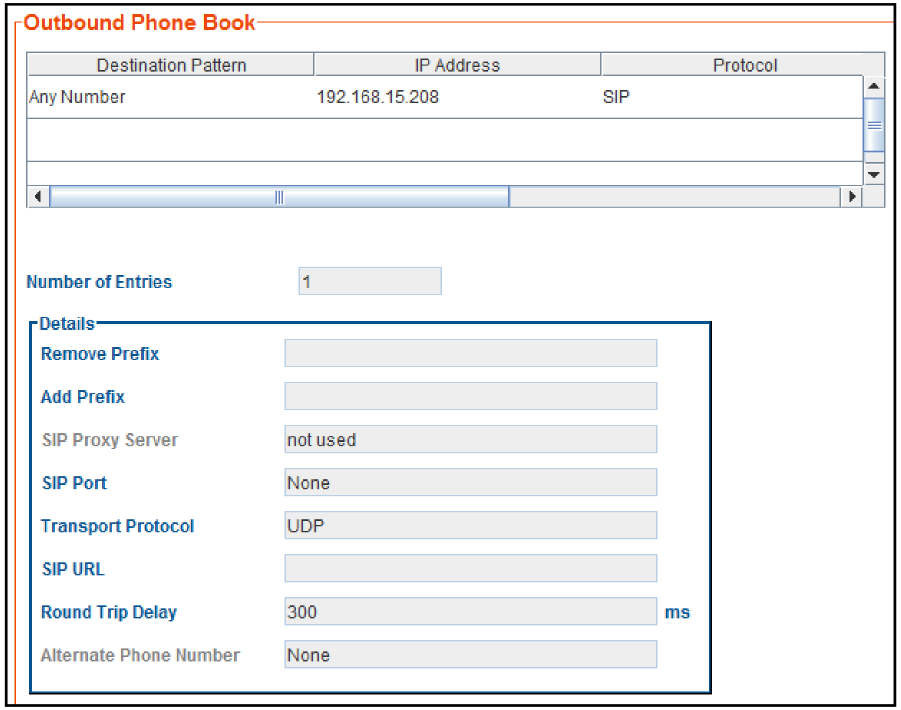


Any entries in the Inbound Phone Book can be viewed from the List Entries option



The Outbound Phone Book is for routing any incoming calls from the GSM network to the IP PBX. The destination extension on the IP PBX is defined in the 'AutoCall' Settings shown in the 2nd picture (above).

Add an entry using the Any Number option. The gateway will accept any digits from the GSM network and place the call to the IP PBX.



Any entries in the Outbound Phone Book can be viewed from the List Entries option

Summary:
You should now be able to make calls between the IP PBX and the GSM network.

In many cases the gateway is used for outbound calls to customers and the caller ID may be concealed to prevent customers calling back on the SIM card in the gateway. If this is the preferred behaviour, prefix the CLI blocking code (1831) to the entry in the Inbound Phone book.

The called party will see ‘Private Number’ as the caller ID.