

# Topex VoIP GSM Gateway

## Topex VoIP GSM gateway

### Tested with:

**Gigaset T300/T500 PRO:** Software version 4.6.5.3

**Mobilink IP** Firmware version: Mobilink-IP-1.2.10-C1P-SDX

In this example we started with a default Mobilink Gateway where we added a SIM card and disabled the SIM PIN code as described in the Mobilink manual.

## Settings in the Mobilink VoIP GSM Gateway

Go to: *Network - IP settings*

The Device should have a **fixed IP address**.

Settings are dependent of the customers network.

IP Address	<input type="text" value="10.202.2.12"/>
Subnet mask	<input type="text" value="255.255.255.0"/>
Default Gateway	<input type="text" value="10.202.2.8"/>



Preferred DNS Server	<input type="text" value="10.202.2.8"/>
Alternate DNS Server	<input type="text"/>

Go to: *VoIP - Codec Settings*

Codec Priority 1	<input type="text" value="G.711 a-law"/>
Codec Priority 2	<input type="text" value="G.711 u-law"/>
Codec Priority 3	<input type="text" value="none"/>
Codec Priority 4	<input type="text" value="none"/>



G.711 u-law	<input type="text" value="20"/>
G.711 A-law	<input type="text" value="20"/>
G.723	<input type="text" value="20"/>
G.729	<input type="text" value="20"/>

Go to: *VoIP - DTMF Settings*

Change the DTMF Setting to **RFC2833**

<input type="checkbox"/> In Band
<input checked="" type="checkbox"/> RFC 2833
Payload Type <input type="text" value="101"/>
Redundant Payload Type <input type="text" value="100"/>
Redundancy Scheme <input type="text" value="AAL2"/>
<input type="checkbox"/> SIP Info
<input type="checkbox"/> H.245 alphanumeric (only H.323)

Go to: *VoIP - Voice Settings*

Gain can be adjusted dependent on the customers request

Rx Gain	<input type="text" value="-3db"/>
Tx Gain	<input type="text" value="-3db"/>

Echo Canceller	<input type="text" value="No"/>
----------------	---------------------------------

VAD and Comfort Noise	<input type="text" value="No"/>
-----------------------	---------------------------------

Go to: *Call Control - Settings*

Change the PBX IP address to the **IP address of your Gigaset T300/T500**

PBX IP Address	<input type="text" value="10.202.2.11"/>
Port	<input type="text" value="5060"/>
Protocol	<input type="text" value="SIP"/>

Go to: *Call Control - Incoming Calls*

Change the settings **Target**, this number is dialled when a GSM call is coming in. In the Gigaset T300 /T500, this is the external number that is configured and given to a user or a group.

Go to: *Call Control - Outgoing Calls*

Go to: *Local Users - SIP Users*

Nr	Status	Interface	Mode	Target	Ignore	Limit	Action
1	Enable	mobile1	Target	1000700	00	00	<a href="#">Edit</a>

Nr	Status	Prefix	Ignore	Limit	Interface	Action
1	Enable	0	00	0	mobile1	<a href="#">Edit</a> <a href="#">Del</a>

Nr	Status	Extension	Password	Outgoing Interface	Action
1	Enable <input type="button" value="v"/>	<input type="text" value="1000700"/>	<input type="text" value="&lt;SIP Password&gt;"/>	mobile1 <input type="button" value="v"/>	<a href="#">Exit</a> <a href="#">Del</a>



#### No ringing during setup outgoing call

Extra, you need to set the option:

Menu - > Call Control -> Parameters -> Add the parameter: **tx\_progress 0**

This will change that the device will not send the ringing signal through early media but using 180 Ringing.

## Settings in the Gigaset T300/T500

<input checked="" type="checkbox"/>	<input type="text" value="GSMDialer"/>	No.: 1	Provider Connection
Provider:	<input type="text" value="GSMDialer"/> <input type="button" value="v"/>	Provider Status:	Registered
Authentication:	<input checked="" type="radio"/> yes <input type="radio"/> no		
User Name:	<input type="text" value="1000700"/>		
Password:	<input type="password" value="1000700"/>		
Provider	Number Area	Extended	

Go to: *Configuration - Lines* and Add a new line.


**Authentication:** Yes

**User Name:** like defined in the Mobilink Gateway **Local Users - Sip users**

**Password:** like defined in the Mobilink Gateway **Local Users - Sip users**

**Provider:** Create a new provider.

Add here the same number as defined in the Mobilink Gateway **Call Control - Incoming Calls**

GSMDialer		No.: 1	Provider Connection
Line Prefix: **8*			
Deposit:	<input checked="" type="radio"/> Default	<input type="radio"/> Internal Number:	<input type="text"/>
No Screening:	<input type="checkbox"/>	Phone Number Prefix:	<input type="text" value="+"/> <input type="text" value="v"/>
Max Connection:	<input type="text" value="1"/>		
Manual Configuration Active: <input type="checkbox"/>			
<div> <div>Provider</div> <div>Number Area</div> <div>Extended</div> </div>			

Change the **Max Connection**: to match the number of GSM channels in the Mobilink Gateway, in this example we only had one channel.  
We also added a Line Prefix for testing purposes.



- [Topex VoIP GSM gateway](#)
  - [Settings in the Mobilink VoIP GSM Gateway](#)
  - [Settings in the Gigaset T300 /T500](#)