

Topex VoIP GSM Gateway

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

Nr	Status	Prefix	Ignore	Limit	Interface	Action
1	Enable	0	00	0	mobile1	Edit Del

Nr	Status	Extension	Password	Outgoing Interface	Action
1	Enable <input type="button" value="v"/>	<input type="text" value="1000700"/>	<input type="text" value="<SIP Password>"/>	mobile1 <input type="button" value="v"/>	Exit Del



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.


Edit Provider			
Provider Name:	<input type="text" value="GSMdialer"/>		
Line Protocol	SIP		
Line Configuration			
type:	<input type="text" value="friend"/>	host:	<input type="text" value="10.202.2.12"/>
dtmfmode:	<input type="text" value="rfc2833"/>	permit:	<input type="text"/>
auth mode:	<input type="text" value="Username/Passw"/>	deny:	<input type="text"/>
auth:	<input type="text" value="plaintext"/>	canreinvite:	<input type="text" value="no"/>
nat:	<input type="text"/>	disallow:	<input type="text"/>
allow:	<input type="text" value="alaw"/>	progressinband:	<input type="text"/>
insecure:	<input type="text" value="very"/>	qualify:	<input type="text" value="no"/>
port:	<input type="text" value="5060"/>	rtptimeout:	<input type="text"/>
defaultip:	<input type="text"/>	mask:	<input type="text"/>
rtpholdtimeout:	<input type="text"/>	fromuser:	<input type="text"/>
fromdomain:	<input type="text"/>		
Number Display:			
type:	<input type="text" value="rfc3325"/>		
format incoming:	<input type="text" value="0011 (222) XXX"/>	format outgoing:	<input type="text" value="+11 (222) XXX"/>

Use the above settings.

host: IP address of the Mobilink VoIP GSM gateway

<div>  <input type="text" value="GSMdialer"/> <div>No.: 1</div> <div>Provider Connection</div> </div>			
Country Code:	<input type="text"/>	Area Code:	<input type="text"/>
Number Type	Number	Number Area	
<input type="text" value="Single Number"/>	0031(88) <input type="text" value="1000700"/>		<div> <div>A</div> <div>B</div> <div>C</div> </div> <div>×</div> <div>+</div>
<div> <div>Provider</div> <div>Number Area</div> <div>Extended</div> </div>			

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.



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