

# MCS VoIP GSM Gateway

## MCS VoIP GSM gateway

Tested with:

**Gigaset T300/T500 PRO:** Software version 4.6.5.0

**MCS VoIP GSM Gateway AS551/2V:** Software version 3.04100215

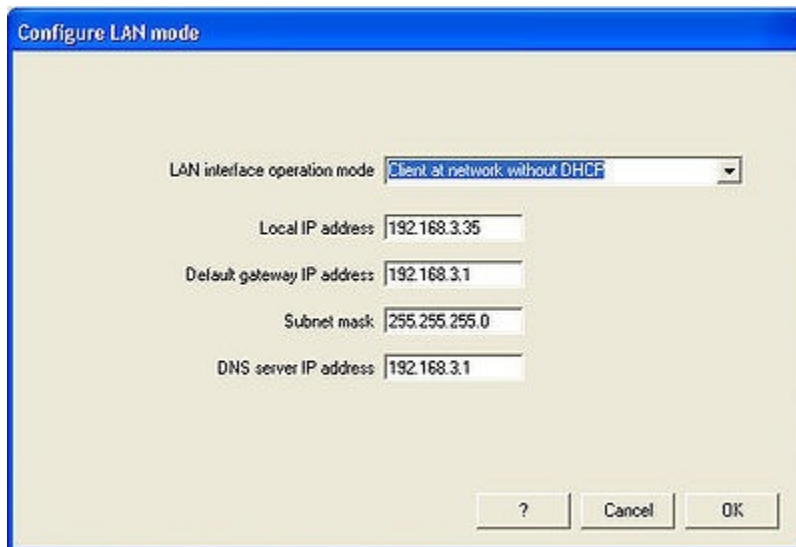
*MCS Software version 3.10 is not working, use 3.11 instead.*

In this example we started with a default MCS Gateway where we added a SIM card and the PIN code needed to activate the SIM card.

## Settings in the MCS VoIP GSM Gateway

Goto: Configuration - LAN settings - LAN interface mode

The Device should have a **fixed IP address**.  
*Settings are dependent of the customers network.*



Configure LAN mode

LAN interface operation mode: Client at network without DHCP

Local IP address: 192.168.3.35

Default gateway IP address: 192.168.3.1

Subnet mask: 255.255.255.0

DNS server IP address: 192.168.3.1

? Cancel OK

Goto: Configuration - SIP access - General

Change the **SIP operation mode** to **SIP peer**

**General SIP access**

SIP operation mode:

Amount of dialled digits from SIP to be ignored:

Prefix for suffix dialing to GSM:

Amount of CLIP digits from SIP to be ignored:

Prefix for CLIP from SIP:

Type of CLIP to SIP:

Prefix for suffix dialing to SIP:

Maximum amount of digits for suffix dialing to SIP:

Detect suffix dialing to SIP complete after:  ... or with DTMF digit:

? Cancel OK

Goto: Configuration - SIP access - Names and passwords

Change the **Peer IP address** to **IP address of the Gigaset T300/T500**

**SIP names and passwords**

Local hostname:

Remote hostname:

Registrar IP address:

Local Username:

Authenticate ID:

Authenticate Password:

Local SIP port:

Peer IP address:  2nd Peer IP address:

Peer SIP port:

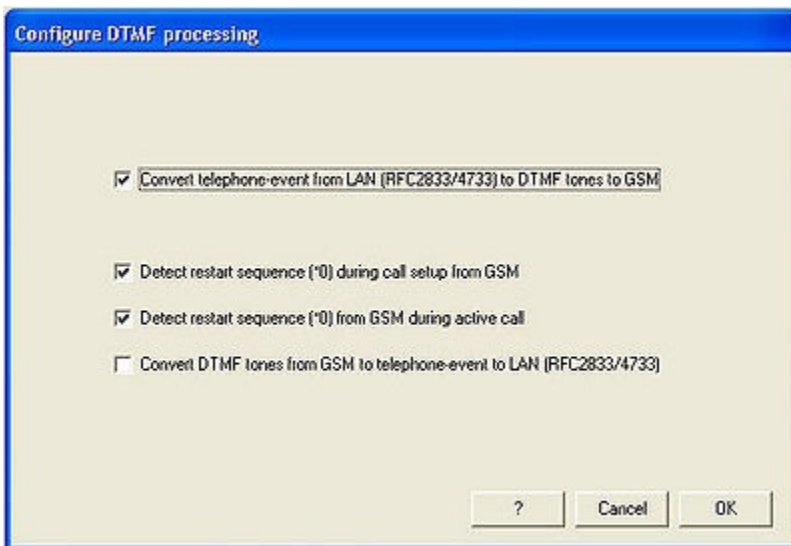
Note: If peer SIP port is unknown, please have a look into the 'SIP registered user list'.

? Cancel OK

Goto: Configuration - SIP access - DTMF processing

Enable the option: **Convert telephone-event from LAN (RFC2833/4733) to DTMF tones to GSM**

This will enable you to use DTMF tones when you called a Interactive Voice Response system.



The dialog box has a blue title bar with the text "Configure DTMF processing". The main area is light beige and contains four checkboxes. The first three are checked, and the fourth is unchecked. At the bottom right, there are three buttons: a help button with a question mark, a "Cancel" button, and an "OK" button.

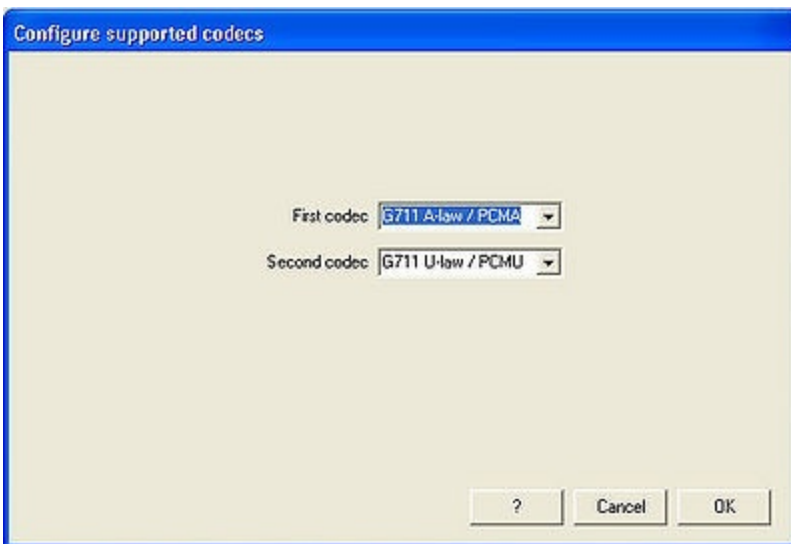
**Configure DTMF processing**

- ☒ Convert telephone-event from LAN (RFC2833/4733) to DTMF tones to GSM
- ☒ Detect restart sequence ('0') during call setup from GSM
- ☒ Detect restart sequence ('0') from GSM during active call
- ☐ Convert DTMF tones from GSM to telephone-event to LAN (RFC2833/4733)

? Cancel OK

Goto: Configuration - SIP access - Codecs

Check if **G711 A-law/PCMA** is selected as the first protocol.



The dialog box has a blue title bar with the text "Configure supported codecs". The main area is light beige and contains two dropdown menus. The first dropdown is labeled "First codec" and shows "G711 A-law / PCMA". The second dropdown is labeled "Second codec" and shows "G711 U-law / PCMU". At the bottom right, there are three buttons: a help button with a question mark, a "Cancel" button, and an "OK" button.

**Configure supported codecs**

First codec: G711 A-law / PCMA

Second codec: G711 U-law / PCMU

? Cancel OK

Goto: Configuration - Wired Access - Country specific settings

Check if the country settings are correct.

**Country specific settings of wired interface**

Country specific settings for ... Netherlands

National prefix

International prefix

Country code

?  
Cancel  
OK

Goto: Configuration - GSM settings - GSM channels

**Configure access to GSM channels**

Channel	Access from GSM permitted	Fix subscriber number	Fix subscriber delay	Callback via CLIP	Callback via DTMF code	Callback via call-setup list	Use access by number	VPN prefix
Master / Ch. 1	Yes	9000	Off	No	No	No	No	
Master / Ch. 2	Yes		Off	No	No	No	No	

Assign the marked cell to all rows

? Cancel OK

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

## Settings in the Gigaset T300/T500

Status	Line Name	Line Number	Line type
	MCSAS551	No.: 1	Provider Connection

Provider:
MCS

Provider Status:

Authentication:
☐ yes
☒ no

User Name:

Password:

Provider
Number Area
Extended

Goto: Configuration - Lines and Add a new line.

**Authentication:** No

**Provider:** Create a new provider.

Provider Name: MCS

Line Protocol SIP

#### Line Configuration

type:	friend	host:	192.168.2.30
dtmfmode:	rfc2833	permit:	
auth mode:	Username/Passw	deny:	
auth:	plaintext	canreinvite:	no
nat:		disallow:	
allow:	alaw		
insecure:	very	progressinband:	
port:	5060	qualify:	no
defaultip:		rtptimeout:	
rtpholdtimeout:		mask:	
fromdomain:		fromuser:	

#### Number Display:

type:	rfc3325		
format incoming:	11 (222) XXX	format outgoing:	+11 (222) XXX

Use the above settings.


**host:** IP address of the MCS VoIP GSM gateway

Status	Line Name	Line Number	Line type:
	MCSAS551	No.: 1	Provider Connection

Country Code:  Area Code:

Number Type	Number	Number Area
Single Number	0031( 79 )	9000

Provider Number Area Extended



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