

# Interop T440/T640 2.0 Sipgate basic

Sipgate basic (single number) (T440/640 [SW-version 2.0.0](#))

Feature	
Outgoing Calls	Yes
Incoming Calls	Yes
CLIP incoming	Yes
CLIP outgoing	Yes
Call Forwarding	Yes
Call Transfer	Yes
Call Waiting	Yes
DTMF	Yes
Anonymous Call	Yes
A-number forwarding	No*
Fax	see chart below**

\*= use the web-portal of Sipgate basic instead for this feature.

\*\*= Fax2Mail service only available by Sipgate with Sipgate plus rate.



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## Gigaset T440/T640 PRO settings.

For entering a new SIP trunk into the PBX, you need some steps:

1. Adding a new Gateway group
2. Adding a new SIP gateway
3. Defining the inbound routes (assignment of number to extension)
4. Defining the outbound routes

Let's assume our SIP account has following landline-number:

089/12345678

And we choose the last three digits also as extension for the user:

678

## Gateway Group

In the Gigaset PBX go to "Administration" - "Routes" - "Gateway groups" enter a name for the new group and click on: **Create new group**

In the Gateway group you have to define the Outbound Caller ID, the Inbound DIDs (how the number is forwarded to the Inbound routes) and the Inbound caller ID (number presentation of external caller). in addition you can permit here inbound calls in general for this gateway group.

**Edit gateway group**

Title	Sipgate basic		
Permit inbound calls	<input checked="" type="checkbox"/>		
Outbound caller ID	Search/replace pattern for outbound caller ID (1) s/ <input type="text" value="^(.*)"/> / <input type="text" value="00498912345678"/> /		
Asserted Identity	Search/replace pattern for asserted identity (1) s/ <input type="text" value="^(.*)"/> / <input type="text" value="\$1"/> /		
Inbound DIDs	Search/replace pattern to cut prefixes (2) s/ <input type="text" value="^((?:0049 49 49 0)?89)?12345678"/> / <input type="text" value="\$1"/> /		
Inbound caller ID	Search/replace pattern for inbound caller ID (3) s/ <input type="text" value="^(.*)"/> / <input type="text" value="0\$1"/> /		
Gateways	SIP - Sipgate Basic		
Outgoing caller IDs	<div></div>		

(1) Search/Replace pattern (PCRE) for outbound caller ID signalling. Examples:  
Extension only: s/^(.\*)/\$1/  
National format: s/^(.\*)/004930123456\$1/  
International format: s/^(.\*)/004930123456\$1/ or s/^(.\*)/+4930123456\$1/  
Same number for all users: s/^(.\*)/00493012345612/  
In most cases you should use the national or international format.  
(2) If necessary, specify here a PCRE-pattern which removes prefixes from inbound numbers, so that only the internal extension remains. Examples:  
s/^026313370//  
s/^((0049|02631))3370//  
s/^(?:0049|02631)3370(.\*?)\$1/  
(3) Search/Replace pattern (PCRE) for inbound caller IDs, to fix up eventually wrong signalled caller IDs. Example: s/^0/\$1/ or s/^(.\*)/\$1/ to prefix the caller ID with a 0. Empty for no automatic change.  
Experimental: This option can also be used to add or remove a leading 0 to/from call log entries by using s/^0/\$1/ or s/^(.\*)/\$1/, or s/^0// or s/^0(.\*?)\$1/.

Cancel Save

Example of Sipgate basic gateway group settings.

### Outbound caller ID

As the number is fixed with this account, every user who is allowed to use this line will present the same number to the callee.

For external calls, we will present e.g. **00498912345678** to the calling party.

### Asserted Identity

These fields are used specially for external forwardings. Some providers need special settings in order to present the correct number at the receiving party.

!!! For Sipgate basic accounts this setting is not of interest, as you can only modify your CLIP via the Sipgate basic Web-portal. This is valid for standard calls or call forwardings. !!!

### Inbound DIDs

For incoming calls, you can use the regular expression, generated by the setup assistant. In your case you would have to adjust the city-code and the first part of the extension, according to your line-settings.

**^((?:0049|49|49|0)?89)?12345678(.\*?)\$**

This expression cuts all possibly available country- and city-codes and the pilot-number from the incoming number and only the extension is remaining (here: **678**). This will be forwarded to the Inbound Routes.

### Inbound caller ID

For incoming calls, we will add an additional **0** in front of the external number of the caller, in order to use the callback-feature of the phone (e.g. **0089987654321**). During the call-setup the additional **0** will be automatically removed.

## Gateways

This field will be empty when you create this Gateway group. It will show later the assigned SIP gateways.

## SIP gateway

In the Gigaset PBX go to "*Administration*" - "*Routes*" - "*SIP gateways*" enter a name for the new gateway and click on: **Create new gateway**

The SIP gateway contains all necessary data for the registration and dial command and how the number is delivered to/from the provider.

Just enter or choose the values according to your contract or data you received from the provider.

The screenshot shows the Gigaset PBX administration interface. The left sidebar contains a menu with options: HOME, MENU, ADMINISTRATION (selected), and PROFILE. Below this, there are links for Users & extensions, System, Provisioning, Routes, Gateway group, SIP gateways (highlighted), TDM Gateway, Inbound routes, Outbound routes, Call forwarding, and System status. The main content area displays the 'Edit SIP gateway : Sipgate Basic' configuration window. The window has a title bar with a close button (X) and a scroll bar. The configuration is divided into two columns. The left column contains a table of settings, and the right column contains explanatory text for some settings.

Edit SIP gateway : Sipgate Basic	
Title	Sipgate Basic
Name	gw_4_sipgatebasic
Registrar	sipgate.de
Proxy [1]	
User [2]	
Password	*****
Allow outbound calls	<input checked="" type="checkbox"/> ON
Register	<input checked="" type="checkbox"/> ON
Language	de - German (de-DE)
Dial command [3]	PJSIP:[prefix]{number:1}@{gateway}
Transport name	default-udp
Source of destination number	To: header
Group [4]	Sipgate basic
Port [5]	5060
NAT	yes
Redirect RTP stream	Do not reroute RTP stream (default)
Check availability	<input checked="" type="checkbox"/> ON
Simultaneous calls	0 0 for unlimited (default)

(1) Empty for no proxy.

(2) For some SIP providers, it might be necessary to use the format user@domain. (domain is then used in the From header, which equals fromdomain in Asterisk.)

(3) String for the Dial() command. T440/T640 PRO will automatically replace {number} by the called number, {number:1} without the first digit and {gateway} with the internal description (e.g. gw\_1.amt).

(4) In order to use gateways, they must be assigned to a gateway group.

(5) When specifying the port (standard SIP port: 5060), it will be directly used. Without, a DNS lookup of the SRV record \_sip.\_udp of the domain (or server) will be performed upon dialout. More Information [Srv Resource Record](#), [Srv Resource Record \(en\)](#), [CIDR](#), [SIP-DNS-Srv-Records](#), [SIP-DNS-Srv-Records \(en\)](#), [SIP-DNS-Srv-Records \(en\)](#)

(6) The priority of the codes is from left to right and top to bottom

(7) Useful settings are e.g.  
0.0.0.0/0, to allow calls from all IP addresses,  
192.0.2.0/24 to allow calls originating from network 192.0.2.\*,  
192.168.0.0/16 to allow calls originating from network 192.168.\*.\*,  
192.168.1.1/32 to allow calls originating from IP address 192.168.1.1 etc.

Cancel Save

Example of Sipgate basic gateway settings 1/2.

**Gigaset**

HOME MENU **ADMINISTRATION** PROFILE

Users & extensions  
System  
Provisioning  
Routes  
Gateway groups  
**SIP gateway**  
TDM Gateway  
Inbound routes  
Outbound routes  
Call forwarding  
System status

More information [IP address](#), [Subnet](#), [CIDR](#), [sip.conf](#)

DTMF mode	rfc4733 - RTP meta data
From user	
From Domain	sipgate.de
T38 support	<input checked="" type="checkbox"/> ON
Update P-Asserted-Identity (CLIP)	no - Deactivated (default)
Update remote party ID (CLIP)	no - Deactivated (default)
Trust remote party ID	no - Deactivated (default)
Codecs [6]	<input type="checkbox"/> G.722 <input type="checkbox"/> G.729 <input checked="" type="checkbox"/> G.711a <input type="checkbox"/> G.711u <input type="checkbox"/> GSM <input type="checkbox"/> H.261 <input type="checkbox"/> H.263 <input type="checkbox"/> H.263+
Allowed IP subnet [7]	0.0.0.0 / 0

**Advanced parameters**

Value	
Value	<input type="text"/> +

**Preview of peer in sip.conf**

```
[gw_4_sipgatebasic]
type=auth
auth_type=userpass
```

Cancel Save

Example of Sipgate basic gateway settings 2/2.

#### Dial command

The dial command is the command which is used in the asterisk software. The term **{number :1}** means, that at the dialled number (e.g. 008987654321) the first digit is removed. If you don't use a line access code (in most cases '0' is used), you have to remove the ':1' !!!

#### Group

Select here the previously created gateway group.

#### Update remote party ID (CLIP)

This setting is just optional, as the provider replaces outgoing CLIP which is not valid with the default number of the SIP account.

For sending another CLIP, use the CLIP-No-Screening feature in the Sipgate basic web-portal.

Underneath you will see then a preview of the entry in the sip.conf file.



#### **Codecs**

Sipgate basic also do support G.722 and G.711 ulaw. For wideband calls (IP to IP) activate also the G.722 codec in the SIP-gateway.

## **Inbound routes**

In the Gigaset PBX go to *"Administration" - "Routes" - "Inbound routes"* select the correct Gateway group and press **Show**.

In addition it is advised to activate the advanced options by clicking it to **'ON'** and then pressing **Show**.

The screenshot shows the Gigaset PBX Administration interface. The top navigation bar includes 'HOME', 'MENU', 'ADMINISTRATION' (highlighted), and 'PROFILE'. The left sidebar lists various system components, with 'Inbound routes' selected. The main content area is titled 'Inbound routes' and shows a configuration for 'Sipgate basic (sipgate-basic)'. The 'Advanced options' are set to 'ON'. Below this is a table of rules:

Rule	Active	Date	Weekdays	Time	Profile	Pattern	Target
General	ON		M T W T F S S [x] [x] [x] [x] [x] [x] [x]	00:00 to 24:00	-	^(.*)	678
	ON		M T W T F S S [x] [x] [x] [x] [x] [x] [x]	00:00 to 24:00	-		

Example of Sipgate basic Inbound routes.

#### Rule

Enter here a name for the according rule.

#### Date / Weekdays / Time

With these settings you can configure a time-controlled routing to different targets.

#### Pattern / Target

In the pattern you define which part of the incoming number is used to forward the call to the according extension.

Because the Sipgate basic contains only one number, we do a 1:1 match between external and internal number.

In our example we forward incoming calls to 08912345678 directly to the extension 678.

The shown example is the easiest way for single numbers, but also other configurations or assignments are possible.

## Outbound routes

In the Gigaset PBX go to "Administration" - "Routes" - "Outbound routes" activate the Advanced options by clicking it to 'ON' and then pressing **Show**.

The screenshot shows the Gigaset PBX Administration interface for 'Outbound Routes'. The 'Advanced options' are set to 'ON'. Below this is a table of rules:

Rule	Active	Weekdays	Time	Pattern	Group	Gateway gr...	Add prefix
General	ON	M T W T F S S [x] [x] [x] [x] [x] [x] [x]	00:00 to 24:00	^(.*)	[all]	sipgate b	

Example of Sipgate basic Outbound routes.

#### Rule

Enter here a name for the according rule.

#### Date / Weekdays / Time

With these settings you can configure a time-controlled routing.

#### Pattern

In the pattern you define how the outside line is seized. In our example all dialled numbers starting with '0' will use the Gateway group Sipgate basic.



#### Multiple basic accounts

If you want to use multiple Sipgate basic accounts in the PBX, you have to create a permission group for each user.

The dedicated permission group has to be assigned to the user in the user-settings and then for the outbound routes you have to select the according group, too!

The default setting for groups ([all]) can't be used in this case.

## Fax support

Fax currently (11.08.2016) has been tested. These results are without a guarantee. Due to different end-devices, configuration of PBX or other settings the fax transmission might fail.

Receiving	Sending				
		Internal FXS	Internal T38-Fax	External T38-Fax	External machine-Fax
	Internal FXS	---	---	<b>OK*</b>	<b>OK*</b>
	Internal T38-Fax	---	---	NOK	NOK
	External T38-Fax	<b>OK*</b>	NOK	---	---
	External machine-Fax	<b>OK*</b>	NOK	---	---

Used devices or services:

Canon Fax-L100 (internal FXS), [www.minifax.de](http://www.minifax.de) (external SW-Fax), Triumph Adler DCC 2725 (external machine-Fax)

\* = T38 option in SIP gateway deactivated