Interop T440/T640 2.0 ECOTEL VoIP-Trunk

ECOTEL VoIP-Trunk (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	Yes
Fax	see chart below



- ECOTEL VoIP-Trunk (T440/640 SWversion 2.0.0) • Gigaset T440/T640 PRO
 - settings.
 - Gateway Group
 - SIP gateway

 - Inbound routes
 - Outbound routes
 - Fax support

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 trunk contains the following numbers:

0891234567[0-9]

And we choose follwowing internal numberblock:

And we have no line-prefix.

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.

					Gigaset
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Users & extensio					
System	Edit gateway group				×
Provisioning	Luit gateway group	_			1
Routes	Title	Ecotel trunk		 Search/Replace pattern (PCRE) for outbound caller ID signalling. Examples: Extension only s (*(*)) (*) (*) 	
Gateway grou	Permit inbound calls	ON		Extension only s/ (-)/s/ National format: s/*(*)/030123456\$1/ International format: s/*(*)/004020123456\$1/ or s/*(*)/+4020122456\$1/	
SIP gateways	Outbound caller ID	Search/replace pattern for outbound caller ID (1)		Same number for all users: s/^(*)/00493012345612/	
TDM Gateway		s/ *\d\d(\d)		 (2) If necessary, specify here a PCRE-pattern which removes prefixes from inhumd numbers as that pair that pair that previous prefixes from 	
Inhound route		/ 0891234567\$1	/	s/*026313370// s/MU(0000523))2270//	
Outbound rou	Asserted Identity	Search/replace pattern for asserted identity (1)		s/(?:(?:0049(0)2631)?3370(*)/\$1/ s/^(?:(?:0049(0)2631)?3370(*)/\$1/ (2) Sacch (Person and the control of the con	
Call forward		s/		wrong signalled caller IDs. Example: s/*/0/ or s/*(*)/0\$1/ to prefix the caller ID with a 0. Empty for no automatic channe	-
System status		/	/	Experimental: This option can also be used to add or remove a leading 0 to/from call log antries by using s//0/ or s//10/031/ or s//01/ or s//01/1/	
ojotomototilo	Inbound DIDs	Search/replace pattern to cut prefixes (2)			
		s/ *(?:(?:(0049\\+49 49 0)?89)?12345)?(.*)			
		/ \$1	1		
	Inbound caller ID	Search/replace pattern for inbound caller ID (3)			
		s/ *(.*)			
		/ \$1	/		
	Gateways	SIP - Ecotel			
	Outgoing caller IDs				
				Cancel Save	

Example of ECOTEL VoIP trunk gateway group settings.

Outbound caller ID

As just the last digit of the trunk number block is changing, you can select just the last digit (in brackets) and put it into the variable \$1.

As the provider wants the signalling number in the format (country-code)(city-code)(number), you have to enter this number into the next line (here: 0891234567\$1, where the **\$1** represents the changing part).

For external calls, we will present e.g. **08912345678** to the provider, and he will take care about the correct representation to the called party.

Asserted Identity

These fields are used specially for external forwardings. For ECOTEL VoIP Trunk, you can leave these fields empty.

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 pilot-number, according to your line-settings.

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 the external number of the caller "as-is" to the phone (e.g. **089987 654321**). 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 VoIP trunk data you received from the provider.

Example of ECOTEL VoIP trunk gateway settings 1/2.

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Users & extensio				×	
System	Edit SIP gateway : Ecotel trunk				
Provisioning					
Routes	Title	Ecotel trunk	(1) Empty for no proxy.		
Gateway grou	Name	gw_2_ecoteltrunk	(2) For some SIP providers, it might be neccessary to use the format user©demain (demain is then used in the Team handle which equals)	E	
SIP gateways	Registrar	trunk.sip-ecotel.de	fromdomain in Asterisk.)		
TDM Gateway	Proxy [1]		(3) String for the Dial()-command. T440/T640 PRO will automatically replace		
Inbound route	User [2]	987654321	{number} by the called number, {number.} without the first digit and {gatewa with the internal description (e.g. gw_1_amt).	/)	
Outbound rou	Password		(4) In order to use gateways, they must be assigned to a gateway group.		
Call forward	Allow outbound calls	ON	(5) When specifying the port (standard SIP port: 5060), it will be directly used		
System status	Register	ON	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		
oystem status	Language	de - German (de-DE)	 Resource Record (en), CIDR, SIP-DNS-Srv-Records, SIP-DNS-Srv-Records (en), SIP-DNS-Srv-Records (en) 		
	Dial command [3]	PJSIP/(prefix)(number)@(gateway)	(6) The priority of the codes is from left to right and top to bottom		
	Transport name	default-udp	(0) The priority of the objects in them text to right the top to become		
	Source of destination number	INVITE request line	 O.0.0.0/0 to allow calls from all IP adresses, III 20.2.0/24 to allow calls griging from petwork 102.0.2 to 		
	Group [4]	Ecotel trunk	 192.168.0.16 to allow calls originating from network 192.0.2.7, 192.168.0.16 to allow calls originating from network 192.168.*.*, 		
	Port [5]	5060	More Information IP address, Subnet, CIDR, sip.conf		
	NAT	yes	•		
	Redirect RTP stream	Do not reroute RTP stream (default)	•		
	Check availability	ON			
	Simultaneous calls	0 0 for unlimited (default)			
			Cancel		

Example of ECOTEL VoIP trunk gateway settings 2/2.

A HOME '≡ MENU	J Q ADMINISTRATION & PROFILE		Gigaset
 ♦ HOME ▶ HOME ▶ HOME Users & extension System Boutes Gateway grot SIP gateway: TDM Gateway: Inbound rout Outbound rout Call forward System status 	J O ADMINISTRATION ▲ PROFILE Simultaneous calls 2011/F mode 2011/F	0 0 for unlimited (default) ife_4733 - RTP meta data Image: Strate in the strate in t	Gigaset
v Pr	Value Value review of peer in sip.conf (gw.2.ecotetirunk)	*	Cancel State

Registrar

Use here the SIP-Server / Registrar (received by ECOTEL).

sip-ecotel.de

<u>Proxy</u>

In individual cases, an entry here can lead to problems, therefore This field should always remain free. (See Installation & Configuration Guide ECOTEL)

User

Enter here the **Username** (Benutzername), followed by '@sip-ecotel.de'. You have to enter the realm behind the username in order to properly register the trunk at the provider.

For example

021155007000@sip-ecotel.de

Dial command

The dial command is the command which is used in the asterisk software. The term **{number}** means, that the number (e.g. **021155007000**) is dialled as entered. If you use a line access code (in most cases '0' is used), you have to add '**:1**' after "number".

<u>Group</u>

Select here the previously created gateway group.

Update remote party ID or P-Asserted-Identitiy (CLIP)

These settings can be left on the default setting (no - Deactivated)

From Domain

Enter here the Domain/Realm delivered by ECOTEL

sip-ecotel.de

T38 support

In order to have a better fax-support for fax-machines, connected to the FXS ports activate this option.

All tested scenarios were ok with this parameter activated.

Underneath the configuration parameter you will see a preview of the complete sip.conf file.

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.

									Gıgaset
Users & extensions	Inbound routes Night answe	r service							
System >									
Provisioning >	Inbound routes								
Routes 🗸	Gateway group	Ecotel trunk (ec	cotel-trunk)		•				
Gateway groups	Advanced entions	ON							
SIP gateways	Autanced options								
TDM Gateways			-		-		-	_	
Inbound routes	Rule	Active	Date	Weekdays MTWTFSS	Time	Profile	Pattern	Target	
Outbound routes	General	UN	to		to		(1.7)	51	
Call forward				MIWIFOO	24:00				
System status		ON	to		00:00 to 24:00] · · ·			+

Example of ECOTEL VoIP trunk 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.

In our example we receive already the correct extension from the gateway group. Therefore no further number-manipulation is necessary.

When the PBX finds an according extension it will route the call to it.

But you can add here exceptions from this rule, for example for internal fax users or waiting queues, etc.

Please have in mind the order of these rules, as the system is using First Match!!!

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.

									Gigaset
Users & extensions	Outbound Boutes								
System >	outpound notices								
Provisioning >	Advanced options	ON							
Routes 🗸 🗸									
Gateway groups	Rule	Active	Weekdays	Time	Pattern	Group	Gateway group	Add prefix	
SIP gateways	General	ON	M T W T F S S	00:00	^0	[all] •	Ecotel trunk 💌		
TDM Gateways				24:00			· •		
Inbound routes							· •		
Outbound routes		ON	MTWTFSS	00:00		[all]	Ecotel trunk 🔹		+
Call forward				24:00			· •		
System status							· •		

Example of ECOTEL VoIP trunk 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 ECOTEL VoIP trunk.

Remark: For calling anonymous to external parties, use the CLIR-setting in the HOME screen of the user!

Fax support

Following table shows you the current state (x.x.x) of supported fax constellations. These results are without a guarantee. Due to different end-devices, configuration of PBX or other settings the fax transmission might fail. More info about fax via VoIP networks can be found here.

Receiving	Sending			
	Internal FXS	Internal T38-Fax	External T38-Fax	External machine-Fax
Internal FXS			NT	NT
Internal T38-Fax			NT	NT
External T38-Fax	NT	NT		
External machine-Fax	NT	NT		

Used devices or services:

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

- * = T38 option in SIP gateway deactivated
- ** = T38 option in SIP gateway activated