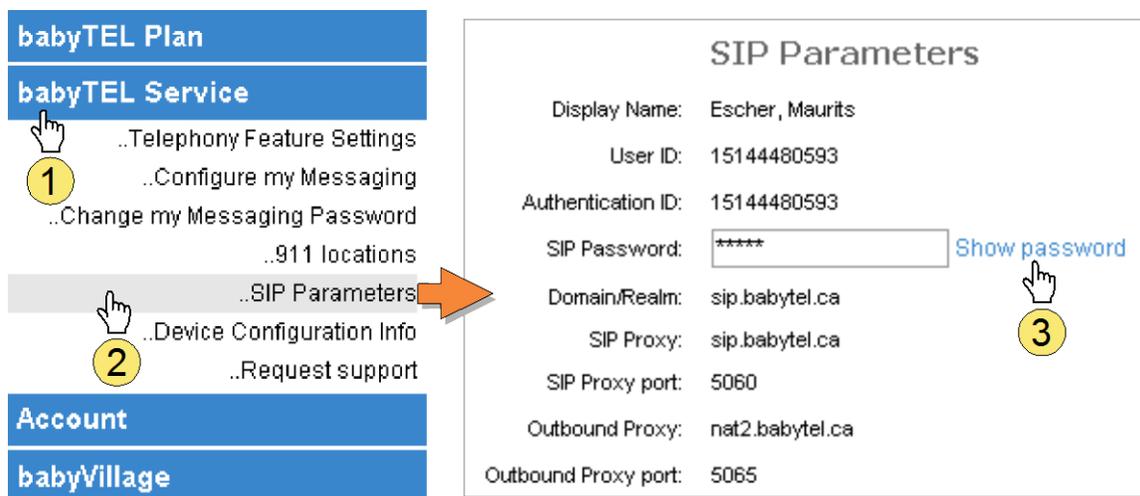


## Introduction

The information in this document is intended as a general guide to help you set up the babyTEL service on your SIP compatible telephone system. It contains only babyTEL-specific parameters that need to be configured on your IP-PBX. For full and proper functioning of the babyTEL service and all other features, your IP-PBX should be set up according to the detailed instructions provided by the manufacturer in their configuration guide.

## Step 1 - Gather all the necessary information

Your User ID and Web password were provided to you in the Signup Confirmation email. Go to the babyTEL website ([www.babytel.net](http://www.babytel.net)) and login using your ID and password. (The login command can be found at the top right corner of the page.) Click on **babyTEL Service** to expand the menu and then click on **SIP Parameters**. A page similar to the example shown below will be displayed, with values relevant to your account.



The screenshot shows the babyTEL website interface. On the left is a navigation menu with sections: 'babyTEL Plan', 'babyTEL Service', 'Account', and 'babyVillage'. Under 'babyTEL Service', several options are listed: '..Telephony Feature Settings', '..Configure my Messaging', '..Change my Messaging Password', '..911 locations', '..SIP Parameters', '..Device Configuration Info', and '..Request support'. The 'SIP Parameters' option is highlighted with a yellow circle '2' and an orange arrow points to the right. The right side of the screenshot shows the 'SIP Parameters' page with the following information:

SIP Parameters	
Display Name:	Escher, Maurits
User ID:	15144480593
Authentication ID:	15144480593
SIP Password:	*****
Domain/Realm:	sip.babytel.ca
SIP Proxy:	sip.babytel.ca
SIP Proxy port:	5060
Outbound Proxy:	nat2.babytel.ca
Outbound Proxy port:	5065

A 'Show password' link is located to the right of the password field, with a yellow circle '3' and a hand icon pointing to it.

Please have this information at hand when you configure your system.

## Step 2 - Configure the Asterisk PBX system

babyTEL is compatible with all versions of Asterisk.

### Configure the Asterisk as a sip client of the babyTEL network

#### Asterisk Configuration File: `/etc/asterisk/sip.conf`

This configuration file is used to configure the Asterisk SIP trunk interface. The file below illustrates how to configure the Asterisk to register the SIP babyTEL trunk.

#### `sip.conf`:



```
[general]
context=inbound-calls      ; Send incoming calls to context "inbound-calls"

allowguest=no              ; Protect against anonymous callers
srvlookup=yes              ; Enable DNS SRV lookups
alwaysauthreject=yes       ; For security to protect from scans
dtmfmode=rfc2833           ; Send outbound DTMFs using RFC-2833

; ##### Registration #####
; Registration of the main DID:
register =>
<User_ID>@sip.babytel.ca:<SIP_Password>:<Authentication_ID>@<Outbound_Proxy>;5065/<User_ID>

; ##### Incoming Settings #####
[babytel_incoming]
type=peer
qualify=no                  ; Don't send OPTIONS to babyTEL
insecure=invite             ; Do not require authentication of incoming INVITES
host=<Outbound_Proxy>        ; babyTEL NAT host DNS address
port=5065                   ; babyTEL NAT uses port 5065

; ##### Outgoing Settings #####
[babytel_outbound]
type=peer
username=<Authentication_ID>
fromuser=<User_ID>
fromdomain=sip.babytel.ca
host=sip.babytel.ca
outboundproxy=<Outbound_Proxy>;5065
secret=<SIP_Password>
canreinvite=no
insecure=no

; ##### Local Asterisk Users #####
[200] ; local asterisk user
type=friend
secret=myStrongPasscode200
context=local_200
callerid="John Smith" <200>
host=dynamic
nat=yes

[201] ;local asterisk User
type=friend
secret=myStrongPasscode201
context=local_201
callerid="Denis Smith" <201>
host=dynamic
nat=yes
```

**Asterisk Configuration File: /etc/asterisk/extensions.conf**

This is an example for your dial plan

**extensions.conf:**

```
[general]
```

```
[inbound-calls]
```

```
exten => <User_DID>,1,Dial(SIP/200) ; Incoming calls to main number rings extension  
200
```

```
[local_200]
```

```
exten => _9X.,1,Dial(SIP/${EXTEN:1}@babytel_outbound) ; Ext200 can dial 9 to call  
out over babyTEL
```

```
exten => 201,1,Dial(SIP/201) ; Ext200 can call Ext 201
```

```
[local_201]
```

```
exten => 200,1,Dial(SIP/200) ; Ext 201 can only call Ext  
200
```

**Notes:**

Values for the items shown in **RED** should be taken from the SIP Parameters page for your your account. When entering data, please do not include the brackets "<" and ">" shown above.

If you wish to register additional numbers (Virtual\_DID) from your babyTEL account. Please contact Customer Service first. You will then need to duplicate above configuration and replace <User\_ID> by the <Virtual\_DID>.

babyTEL requires the use of the Outbound-Proxy feature now available in most new Asterisk versions. All SIP messages must be sent to <Outbound\_Proxy> to UDP port 5065, but the Domain/Realm must remain *sip.babytel.ca* in the SIP headers.

**IMPORTANT:**

**Always protect your Asterisk system installation to prevent unauthorized access. One of the first actions many people do when after they install their PBX Asterisk, is often to create a phone extension with an easy password. This can be easily discovered. Always use strong passwords for the extensions, avoid using short or weak extension passwords. There are various other actions that you can perform to secure your asterisk PBX.**



## Contact

If you require assistance you can contact us 24 hours a day, 7 days a week, by email at [service@babytel.net](mailto:service@babytel.net).

You can also reach us by phone 7 days a week from 9 AM to midnight, Eastern Time at:

Canada	USA
Montréal: 514 201-6550 Toronto: 416 848-0990 Toll free: 1-877-258-VolP (8647)	Toll free: 1-877-808-VolP (8647)

**Address:** 1425 René-Lévesque, Suite 700, Montréal, Québec, Canada H3G 1T7

**Website:** [www.babytel.net](http://www.babytel.net)

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Thank you for choosing babyTEL as your Internet Telephony Service Provider. We at babyTEL will continually strive to provide you a reliable service. As well, we will be regularly adding additional capabilities that you may find useful. Please keep up-to-date by visiting us at the babyTEL website. Pleasant surprises may await you.

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