



ZOIPER 3 PROVISIONING

How to setup provisioning with Zoiper 3

INDEX

OVERVIEW	2
Who needs provisioning?.....	2
What is provisioning?.....	2
Benefits:.....	2
HOW DOES IT WORK?	2
Local provisioning configuration.....	3
Remote provisioning configuration.....	4
ERROR RESPONSE	5
EXAMPLE	5

Overview

Who needs provisioning?

Provisioning is particularly useful for VoIP Service Providers and Call Centers.

What is provisioning?

Provisioning is an easy way to remotely setup the end-user configuration of Zoiper.

Benefits:

- ◇ Relieve your users from configuring various settings, like accounts, codecs, etc.
- ◇ Load balance (distribute the load of) your VoIP servers.
- ◇ Use the credentials for your website instead of the username and password for the VoIP server.
- ◇ Update your users' configuration in accordance with your specific requirements without involving them into any action. This means that users may not even realize that changes take place.

How does it work?

Provisioning is only available in the Biz versions of Zoiper 3.

Provisioning in Zoiper 3 Biz is controlled by a special file. This file must contain instructions like the remote configuration location, authentication method, etc.

Provisioning will take place upon startup. If the local provisioning file exists and has a valid format, Zoiper will get its configuration remotely with the parameters, specified in the provisioning file.

Zoiper first loads the local configuration file and then the significant sections from the provision configuration thus allowing parts of the configuration to be stored locally (for example the audio options).

Local provisioning configuration

The provision file is not included in the standard installer.
It has to be created manually

The file is named 'Provision.xml' and could be placed in one of these locations:

1. The current working folder of Zoiper
2. Zoiper installation folder. By default it is :
"C:\Program Files (x86)\Zoiper\" or "~/.Zoiper"
3. Zoiper current user "Application Data\Zoiper" folder.

The provision file is in XML format, which has the following structure:

- ◇ **provision** – main element
 - **base_urls** – a section that holds any number of the following text elements:
 - **base_url**– this element supplies a base URL for provisioning. If the provisioning from this URL fails, Zoiper tries to provision from the next one. If it doesn't succeed with any of them, Zoiper displays an error message. If 'url' authentication is going to be used some substitutions variables could be specified in the URL. The currently available variables are '[user]' and '[pass]' which upon execution are substituted with the user name and password for provisioning.
The password is MD5 digest of the actual password.
 - **options** – a section that holds the options elements for the provision as follows:
 - **use_authentication** – this element holds a boolean value, indicating if an authentication information will be provided from Zoiper to the webserver.
0 = false, 1 = True
 - **user_input_authentication** – this element holds a boolean value, indicating if Zoiper will ask the user to enter the user credentials.0 = false, 1 = True.
 - **authentication_type** – this element holds a text value indicating the way Zoiper supplies the user credential to the web server. The possible values are:
 - *'basic'* – uses basic authentication for HTTP protocol
 - *'url'* – passes the user credentials as URL parameters. It will replace the variables '[user]' and '[pass]' specified in the 'base_url' element with the credentials that are going to be used for provisioning. The password is MD5 digest of the actual password.
 - **user** – this element holds a preset username which is used if 'user_input_authentication' is False.

- **password** – this element holds a preset password which is used if 'user_input_authentication' is False.
The password can be encoded as in the Zoiper config file or in plain text.
- **refresh_rate** – this element specifies the period (in seconds) for which an update of the provision will occur. 0 means that the phone is provisioned only once on startup. Additional provision cannot take place when there is an active call and will take place after the call is hung up. (not implemented)

◇ **significant_sections** – is an element that holds a list of the sections from the provisioned config file that will be used from the phone.

The sections must be separated with commas (,).

Here are the valid section names:

'general, sip_options, iax_options, rtp_options, stun_options, accounts, ldap_options, audio, video, transfer, codecs, restrictions, diagnostics, network, fax, chat, contact_servers, restrictions, popup'

If an 'accounts' section is provisioned, this means that no local accounts are used. Zoiper stores in the local configuration only sections that are not provisioned.

◇ **addressbook** – holds the addressbook options as follows: (not implemented)

- **use_addressbook** – this element holds a boolean value indicating if remote addressbook should be used by Zoiper. (not implemented)

◇ **restrictions** – this element holds a list of values which represents the restrictions applied on the addressbook remote manipulations. Here are the valid restrictions: 'add,update,delete'. (not implemented)

The provision file does not contain any data related to Zoiper configuration XML described in the Zoiper Configuration File documentation.

Remote provisioning configuration

The provisioning itself is made by obtaining the configuration XML data from an HTTP or HTTPS web server specified in the provisioning file.

The request can be done by using authentication credentials provided by the Zoiper user. Based on the user's credentials, the HTTP server generates and returns the output in the form of Zoiper configuration XML i.e. it will return relevant XML data.

Error response

The web server could respond with an error message in the following XML format:

error – the main XML element. This element should contain the error text, which is fetched and displayed by Zoiper to the user.

Example

```
<provision>
  <base_urls>
<base_url>http://yourserver.com/provision/?username=[user]&password=[pass]</base_url>
  </base_urls>
<options>
  <use_authentication>1</use_authentication>
  <user_input_authentication>1</user_input_authentication>
  <authentication_type>url</authentication_type>
  <user></user>
  <password></password>
  <refresh_rate>0</refresh_rate>
</options>
<significant_sections>general,sip_options,iax_options,rtp_options,stun_options,accounts,codecs,restrictions</significant_sections>
<addressbook>
  <use_addressbook>0</use_addressbook>
</addressbook>
<restrictions>add,update,delete</restrictions>
</provision>
```