

gsconf

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Using this script, in conjunction with GS_CFG_GEN provided by GrandStream, it's possible to configure a pool of GrandStream phones/adapters easily, generating a configuration file for each device which will be downloaded from the phone using TFTP o HTTP protocols (provisioning)

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1 Introduction

This simple bash script permits to configure a pool of GrandStream devices easily, defining in a configuration file only the most important parameters:

- SIP account number
- SIP account name
- SIP voicemail number
- Static IP address
- SIP server IP address

The script can be easily customized to change other parameters for each phone/adapter.
It works with GXP phones as like as HT-50x ATAs.

1.1 License and disclaimer

This package is free software, provided under the GNU/GPL license <http://www.gnu.org/copyleft/gpl.html> GNU/GPL and it comes with absolute no warranty.

1.2 Reporting bugs, suggestion, patches

Bugs, suggestions, patches should be reported to psubiaco@creasol.it.

2 How does it work?

1. Read a configuration file within some global definitions and a list of parameters for each phone (mac address, IP address, SIP number and name);
2. Patch, using *sed*, a template file (provided by GrandStream) which contains the list of parameters to configure the phone;
3. Call the *gs_cfg_gen* java program, provided by GrandStream, to convert the patched template file into a valid configuration file (binary) which will be downloaded, at every boot, from the phone/adapter.

3 Installation

- Download the configuration tool program from the GrandStream website, <http://grandstream.com/configurationtool>
- extract it on */usr/local* directory : the new directory *GS_CFG_GEN* will be created
- enter *GS_CFG_GEN/bin* directory, and copy, inside, the files *gsconf**
- edit *gsconf* file and change the *JAVA_HOME* variable specifying the correct path for *j2re* or *j2sdk* environment

4 Usage

- Enter the directory */usr/local/GS_CFG_GEN/bin*
- edit the configuration file *gsconf.cfg* where the list of GrandStream phones/ATAs are defined (mac address, IP, SIP account informations, ...)
- edit the template files *gsconf_GXP.txt*, *gsconf_502.txt*, *gsconf_503.txt* relative to GrandStream phones and adapters: please consider that the supplied templates are still usable with Asterisk, and also the most important parameters are changed by the *gsconf* script, so you won't change the SIP server address and several other parameters;
- call *./gsconf configurationName*, for example *./gsconf gsconf* to make script reading the *gsconf.cfg* file and *gsconf_???.txt* templates, generating one configuration file for each device into *\$CONFIGURATIONDIR* directory (usually */tftpboot* or */gs*): the output files are named *cfgMACADDRESS*.

Every time a new set of phones should be reconfigured (with different configuration, because for a different PBX), a new set of configuration and template files should be created, so it's easy to maintain the configuration for different PBXes: just create a SUBDIRECTORY for each asterisk installation, then put *gsconf.cfg* and *gsconf_** inside that directory, edit those file, and call *./gsconf SUBDIRECTORY*.

4.1 Usage example

Suppose to configure the phones and ATAs for the company “*creasol*”:

1. enter directory `/usr/local/GS_CFG_GEN/bin`
2. `mkdir creasol` (create directory for that company)
3. `cp gsconf.cfg gsconf_* creasol` (copy original templates and configuration into that directory)
4. `vi creasol/gsconf.cfg` (define the few parameters required by any phone and ATA)
5. `vi creasol/gsconf_GXP.cfg` (check the parameters defined in the template for GXP phones)
6. `vi creasol/gsconf_502.cfg` (check the parameters defined in the template for HT-502 ATA, if needed)
7. `vi creasol/gsconf_503.cfg` (check the parameters defined in the template for HT-503 ATA, if needed)
8. `./gsconf creasol` (generate all files `cfgMACADDRESS` which will be readed by GrandStream devices at bootstrap)