



Configuration Tool User Guide

Windows Version 1.6.3.2

1. Installation

1.1. Prerequisites

This application runs on Microsoft .NET framework 1.1, so you will need to download and install the Microsoft .NET Framework Redistributable Package, version 1.1 or above.

You can obtain .NET Framework 3.0 Redistributable Package either by using Windows Update, or download offline installation file from Microsoft Download Center at

<http://www.microsoft.com/downloads/details.aspx?FamilyId=10CC340B-F857-4A14-83F5-25634C3BF043&displaylang=en>

1.2. What is in the package

There are three files in the configuration generator zip file (named [Grandstream Configuration Generator 1.6.3.2.zip](#))

GrandstreamConfigurationGenerator.exe
gs_config.dll
readme.txt
MAC.csv

2. Generating the configuration file for Grandstream client

Grandstream products takes configuration file named `cfg<MAC address of device>`. To generate such configuration file for a particular device, run the configuration tool. The application takes the parameters below:

2.1 MAC address

The application takes MAC addresses in two modes:

- Sequential: enter in starting MAC address and the number of units, then the configuration file with sequential MAC address will be generated accordingly.
Ex. Starting MAC is `000B82010000` and the number of unit is 3. The tool will generate configuration file `cfg000B82010000`, `cfg000B82010001`, `cfg000B82010002` for the three devices respectively.



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- Listing: enter in the list of MAC addresses if they are not sequential.
Ex. MAC addresses are *000B82010000*, *000B82010003* and *000B82010005*. . The tool will generate configuration file *cfg000B82010000*, *cfg000B82010003*, *cfg000B82010005* for the devices accordingly.

2.2 Increment MAC Address By 2

If this option is checked, for Sequential MAC address mode, MAC address will be incremented by 2. This option is designed to accommodate Grandstream device models such as HT502 and HT503 which have two MAC addresses but only LAN MAC address is used for provisioning.

2.3 Encrypt Configuration Files

Once selected, the configuration file(s) will be encrypted with AES 128 bit encryption. Please note that firmware version earlier than 1.0.5.18 will NOT accept encrypted configuration files.

2.4 SIP User ID Prefix

Specify a prefix for SIP User ID(s), i.e. “1312555”. The input can be alpha numeric. This and the following three input boxes make it possible to generate device configuration files in batch mode by using a single template file.

2.5 Starting SIP User ID

Set the starting SIP User ID for the batch, i.e. “1000”. The input must be a natural number. “SIP User ID Prefix” and “Starting SIP User ID” combined together forms a “SIP User ID”, which is a configuration field in Grandstream devices’ web UI. For our example, “1312555” and “1000” concatenated together becomes “13125551000”. This is the first device’s “SIP User ID”. For subsequent devices in the batch, “SIP User ID” will be 13125551001, 13125551002 and so on. “SIP User ID” corresponds to P35 in Grandstream configuration template. P35 should be omitted from the configuration template when user wishes to use this input box for SIP User ID generation.

2.6 SIP Authenticate ID Prefix

Specify a prefix for SIP Authenticate ID, i.e. “test”. The input can be alpha numeric.

2.7 Starting SIP Authenticate ID

Set the starting SIP Authenticate ID, i.e. “1000”. The input must be a natural number. “SIP Authenticate ID Prefix” and “Starting SIP Authenticate ID” combined together forms the “Authenticate ID” field in Grandstream devices’ web UI. For our example, “test” and “1000” concatenated together becomes “test1000”. This is 13125551000’s “Authenticate ID”. For subsequent devices in the batch, “Authenticate ID” will be test1001, test1002 and so on, respectively. “Authenticate ID” corresponds to P36 in Grandstream configuration template. P36



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should be omitted from the configuration template when user wishes to use this input box for Authenticate ID generation.

2.8 CSV

The configuration generator takes CSV file as input for generation of configuration files in batch mode, allowing each MAC has its own Authenticate Password, in addition to the SIP User ID. User can put the MAC addresses, SIP User ID, and Authenticate Password in an excel sheet, and convert the file into a CSV file. (Please check the example files MAC.xls and MAC.csv in the release package). Please note the order would have to be MAC address, SIP User ID and Authenticate Password. If a CSV file is used, P35 (SIP User ID) and P34 (Authenticate Password) should be omitted from the configuration template.

2.9 Configuration Template

The configuration file is generated based on a plain-text template file. Click on “Browse” to select the configuration template you wish to use.

The template file must contain at least one P value parameter which corresponds to a configuration setting. If “SIP User ID” and “Authenticate ID” are generated using the input boxes in the tool’s UI, P35 and P36 should be deleted from your configuration template. The latest template file is available on our website.

2.10 Destination Path

You can specify the folder where you want to store the configuration file(s).

Note: You will need to copy the generated configuration file(s) to your TFTP or HTTP server for your Grandstream devices to download.

3. Configuration Tool API

This application (Version 1.6.3.2) also contains an API for experience Windows Developers to develop their own provisioning application for Grandstream products. Please refer to the Readme file that comes with the package.

4. Entries That Should NOT Be Set by Service Providers

In general, the end user network settings are NOT controlled by VoIP service provider, so they should not be touched by Voice Service Providers.

Following is a section from our configuration file template that comes with the package and it should be leaved as default settings or commented out from the template file.



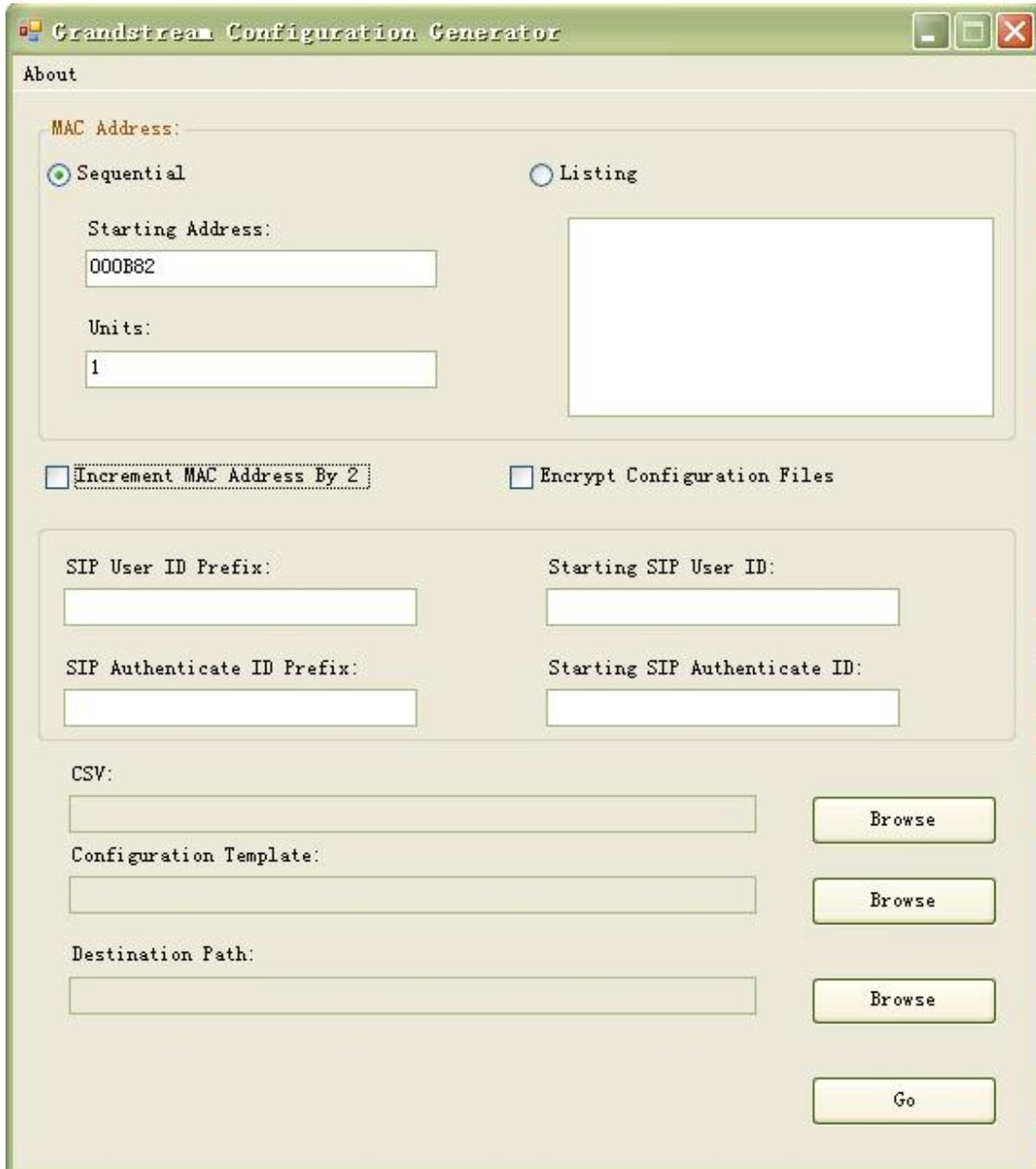
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```
#-----  
# End User Settings  
#-----  
  
# End User Password  
P196 = 123  
  
# DHCP support. 0 - yes, 1 - no  
P8 = 0  
  
# PPPoE support. PPPoE user ID  
#P82 =  
  
# PPPoE password  
P83 =  
  
# IP Address. Ignore if DHCP or PPPoE is used  
P9 = 192  
P10 = 168  
P11 = 1  
P12 = 160  
  
# Subnet mask. Ignore if DHCP or PPPoE is used  
P13 = 255  
P14 = 255  
P15 = 255  
P16 = 0  
  
# Router. Ignore if DHCP or PPPoE is used  
P17 = 192  
P18 = 168  
P19 = 0  
P20 = 1  
  
# Use this DNS server. (if specified).  
P92 =  
P93 =  
P94 =  
P95 =  
  
# DNS 1. Ignore if DHCP or PPPoE is used  
P21 =  
P22 =  
P23 =
```

P24 =

.....

5. View of Application



The screenshot shows the 'Grandstream Configuration Generator' application window. The title bar includes the application name and standard Windows window controls (minimize, maximize, close). The main content area is titled 'About' and contains several configuration sections:

- MAC Address:** A section with two radio buttons: 'Sequential' (selected) and 'Listing'. Below 'Sequential' are two text input fields: 'Starting Address' (containing '000B82') and 'Units' (containing '1'). A large empty rectangular box is positioned to the right of these fields.
- Increment MAC Address By 2:** A checkbox that is currently unchecked.
- Encrypt Configuration Files:** A checkbox that is currently unchecked.
- SIP User ID Prefix:** A text input field.
- Starting SIP User ID:** A text input field.
- SIP Authenticate ID Prefix:** A text input field.
- Starting SIP Authenticate ID:** A text input field.
- CSV:** A text input field.
- Configuration Template:** A text input field.
- Destination Path:** A text input field.

On the right side of the window, there are four buttons: three 'Browse' buttons corresponding to the CSV, Configuration Template, and Destination Path fields, and a 'Go' button at the bottom right.