

# OpenVPN on Asterisk on Debian

Sharing some scripts that may be useful for the general Asterisk and OpenVPN communities

## OpenVPN on Grandstream Phones

Frankly, this is rocket science. We don't do this unless under duress.

*Example: you have a remote office in a country that is blocking all non-encrypted traffic and we like you enough to setup OpenVPN as a server on a hosted/cloud Hello Hub. We'll create the OpenVPN server and configure it. This is a low to moderate security VPN. Its primary purpose is to punch through firewall/traffic restrictions, not to protect you from the NSA, KGB or other nation state-level actors.*

### Step 1 - OpenVPN

We'll send you the three files.

The client/user will need to take the three files we provide and login in to their phones using a web browser.

We can not provide or configure them via our automated systems.

Grandstream GSO 2024

Search | Admin Logout | Reboot

GRANDSTREAM  
CONNECTING THE WORLD

STATUS ACCOUNTS SETTINGS NETWORK MAINTENANCE

Basic Settings  
Advanced Settings  
Remote Control  
Affinity Settings  
Bluetooth Settings  
OpenVPN® Settings  
SNMP Settings  
Wi-Fi Settings

Network

Basic Settings  
Advanced Settings  
Remote Control  
Affinity Settings  
Bluetooth Settings  
OpenVPN® Settings  
SNMP Settings  
Wi-Fi Settings

## OpenVPN® Settings

OpenVPN® Enable ☒ Yes ☐ No

OpenVPN® Server Address

OpenVPN® Port

OpenVPN® Transport ☒ UDP ☐ TCP

OpenVPN® CA

OpenVPN® Certificate

OpenVPN® Client Key

OpenVPN® Cipher Method ☐ Blowfish ☐ AES-128 ☒ AES-256 ☐ Triple-DES

OpenVPN® Username

OpenVPN® Password

Additional Options

**ca.crt** is uploaded to "OpenVPN CA"

**phone01.crt** is uploaded to "OpenVPN Certificate"

**phone01.key** is uploaded to "OpenVPN Client Key"

The server address is the IPv4 address of your cloud/hosted Hello Hub. The IP in the image is an example.

The port will probably be **5042** - an atypical port for either VPN's or VoIP/SIP.

The Cipher method is **AES-256**

No username or password is required.

Click **Save and Apply**, reboot and pray.

## Step 2 - Account Mods

Under **Accounts**→**Account 1** Set the SIP Server IP Address and Outbound Proxy IP address to **10.42.42.1** This is both the Hello Hub and VPN Server Address.

## Disclaimer

This still may not work, for too many factors to explain.

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