

# How to configure OpenVPN in gateway to gateway scenario

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## Overview

This document describes how to configure the D-Link DSR-1000N to configure OpenVPN feature in gateway to gateway scenario. The screenshots in this document is from firmware version 1.06B53. If you are using an earlier version of the firmware, the screenshots may not be identical to what you see on your browser.

## Situation note

OpenVPN is an open source distribution which leverages SSL/TLS technology to offer an ideal tunneling solution between gateway side and client side. D-Link DSR is the pioneer to support OpenVPN feature in SMB router market which can offer you an alternative solution then IPSec VPN if you want to connect DSR to other OpenVPN server or client. In this document, it will go through how to configure OpenVPN with Server or client role in DSR router.

***Note: The OpenVPN client configuration should be compatible with the server's. So the options like cipher, digest algorithms, tunnel protocol and enabling the TLS authentication functionality (All these options are explained in the document) should be same as the server's.***

Ex: If the server uses the TLS authentication, the client should enable it for a successful connection.

### **[Configuration Step - OpenVPN in Server side]:**

1. Upload the required certificates (CA, Server Certificates, Server Key and DH Key) from the authentication page.
2. Go to OpenVPN configuration page and select 'Mode' as 'server' along with remaining configuration (VPN Network, VPN Netmask, Port, Tunnel Protocol, Encryption Algorithm, Hash Algorithm, Tunnel Type etc.)
3. Click Save Settings.

*Note: TLS authentication key is optional. If this option is enabled, you should enable it on client side as well.*

4. Now go to OpenVPN Remote Networks page and add 'Remote Network' information (networks behind the client gateway(s)) i.e. common name of the client certificate that will be used in client configuration, Subnet and Netmask.
5. If the split tunnel is selected, add local networks (networks behind the server gateway) from OpenVPN Local Networks page.

### **[Configuration Step - OpenVPN in Client side]:**

1. Upload the required certificates (CA, Server Certificate, Server Key, DH Key etc.) from the OpenVPN Authentication page.
2. Go to OpenVPN Configuration page and select mode as client. Fill the Server IP and remaining configuration options like Port No., Tunnel Protocol, encryption Algorithm (it should be same as server's)
3. Save Settings.

Tunnel will be established after keys are negotiated.