

# EDGE TECHNOLOGY

TRYING IT SO YOU DON'T HAVE TO

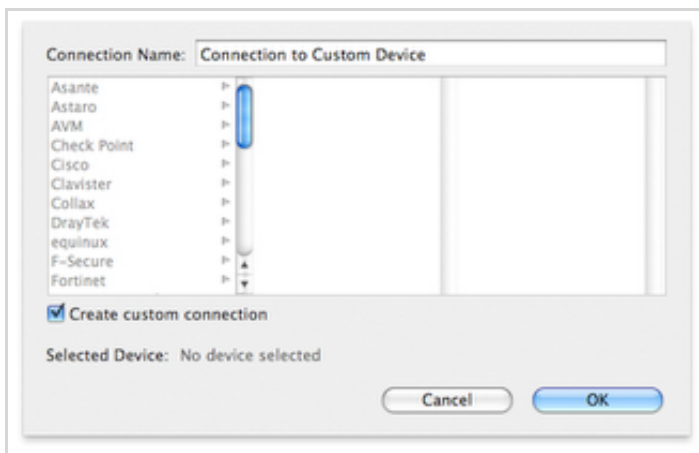
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## Using VPN Tracker 5 with a Cisco Easy VPN Server

When I wanted to connect my Mac to a Dynamic Multipoint VPN (a proprietary Cisco VPN technology) I quickly learned this could only be done by creating an Easy VPN Server on the DMVPN Hub and connect VPN Tracker to it. This simple guide explains how to configure VPN Tracker 5 if you rolled out your own Easy VPN Server (the connection to a DMVPN network is optional).

If you want to use VPN Tracker with a Cisco Easy VPN Server that you set up on your router there's no default template (it only ships with templates for the PIX firewall and the Concentrator product line). Fortunately it's all sort of the same and VPN Tracker does support the Cisco Easy VPN protocol perfectly so all you have to do is synchronize the phase 1 and phase 2 settings, set your passwords and off you go. Here's a quick tutorial on how to do it.

First choose to create a new custom profile as shown here:



Next let's set the basic stuff.

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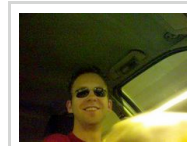
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Connection based on  Custom Device  
 Configuration Guide

Automatic Configuration  Client Provisioning Cisco EasyVPN (Automatic)

VPN Gateway The IP Address of your VPN gateway goes here

Authentication Pre-shared key  Edit  
 Use Extended Authentication (XAUTH) always  Edit

Identifiers Local Key ID easyvpn-group  
 Remote Remote Endpoint IP Address  
 Verify remote identifier

DNS  Use Remote DNS Server

- Use Cisco EasyVPN for Client provisioning. It will ensure the proper parameters (like a split-tunnel) are being parsed correctly.
- Enter your VPN Gateway IP address or host name and your primary authentication. This example is based on my setup of an Easy VPN Server as illustrated here. In this case I used preshared keys for authentication (this is your group password). I also used Extended Authentication (local users), you should tick this box and supply a username and password if required.
- The local identifier is the group name that you're trying to connect to. For remote you can set this to Remote Endpoint IP Address.
- I didn't use DNS as I used a split tunnel and didn't run a DNS server in my network. If you don't run a split-tunnel or if you specified dns servers in your client configuration you can tick this box. VPN tracker will warn you if you made the wrong choice here so feel free to experiment.

Now it's time for the advanced settings.

General  
 Exchange mode aggressive  
 Proposal check claim  
 Nonce Size 16 Bytes  
 Send INITIAL-CONTACT message  
 Send Cisco Unity Vendor ID

Phase 1  
 Lifetime 28800 Seconds  
 Encryption Algorithm  
 AES-256  
 AES-192  
 AES-128  
 3DES  
 DES  
 Hash Algorithm  
 SHA1  
 MD5  
 Diffie-Hellman Group 2 (1024 bit)

Phase 2  
 Lifetime 28800 Seconds  
 Encryption Algorithm  
 None  
 DES  
 3DES  
 AES-128  
 AES-192  
 Authentication Algorithm  
 No Authentication  
 HMAC MD5  
 HMAC SHA1  
 Enable Perfect Forward Security (PFS) DH Group 2 (1024 bit)  
 Establish unique SAs for multiple networks

NAT-Traversal disabled  
 Ping Interval 10 Seconds

MTU  Set MTU for network used by VPN: 1280 Bytes

Copy the general settings as displayed in the picture. In my example I used the following:

```
crypto ipsec transform-set ts1 esp-3des esp-sha-hmac
```

This means that the phase 1 negotiations will be using a 3des encryption and a sha1 hash. For phase 2 you can use the crypto isakmp policy. I didn't use NAT-Traversal but you can set it to automatic so you don't have to worry about the different types of routers you'll be connecting through. This is how my policy looked:

```
crypto isakmp policy 10  
encr 3des  
authentication pre-share  
group 2
```

In case you want to migrate a Cisco VPN Client profile you can look here for a good guide on how to do this. If you're interested in building your own DMVPN and/or Easy VPN Server you can read my other tutorial here. Any feedback is appreciated.

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LABELS: CISCO, EASY VPN, EQUINUX, VPN TRACKER

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