

ASA 8.x/ASDM 6.x: Add New VPN Peer Information in an Existing Site-to-Site VPN using ASDM

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[Introduction](#)

This document provides information about the configurational changes to make when a new VPN peer is added to the existing site-to-site VPN configuration using Adaptive Security Device Manager (ASDM). This is required in these scenarios:

- The Internet Service Provider (ISP) has been changed and a new set of public IP range is used.
- A complete re-design of the network at a site.
- The device used as VPN gateway at a site is migrated to a new device with a different public IP address.

This document assumes that the site-to-site VPN is already configured properly and works fine. This document provides the steps to follow in order to change a VPN peer information in the L2L VPN configuration.

[Prerequisites](#)

[Requirements](#)

Cisco recommends that you have knowledge of this topic:

- [ASA Site-to-Site VPN configuration example](#)

Components Used

The information in this document is based on these software and hardware versions:

- Cisco Adaptive Security Appliance 5500 series with software version 8.2 and later
- Cisco Adaptive Security Device Manager with software version 6.3 and later

Conventions

Refer to [Cisco Technical Tips Conventions](#) for more information on document conventions.

Background information

The site-to-site VPN is working fine between the HQASA and the BQASA. Assume that the BQASA has got a complete network re-design and the IP schema has been modified at the ISP level, but all the internal subnetwork details remain the same.

This sample configuration uses these IP addresses:

- Existing BQASA Outside IP address - 200.200.200.200
- New BQASA Outside IP address - 209.165.201.2

Note: Here, only the peer information will be modified. Because there is no other change in internal subnet, the crypto access-lists remain the same.

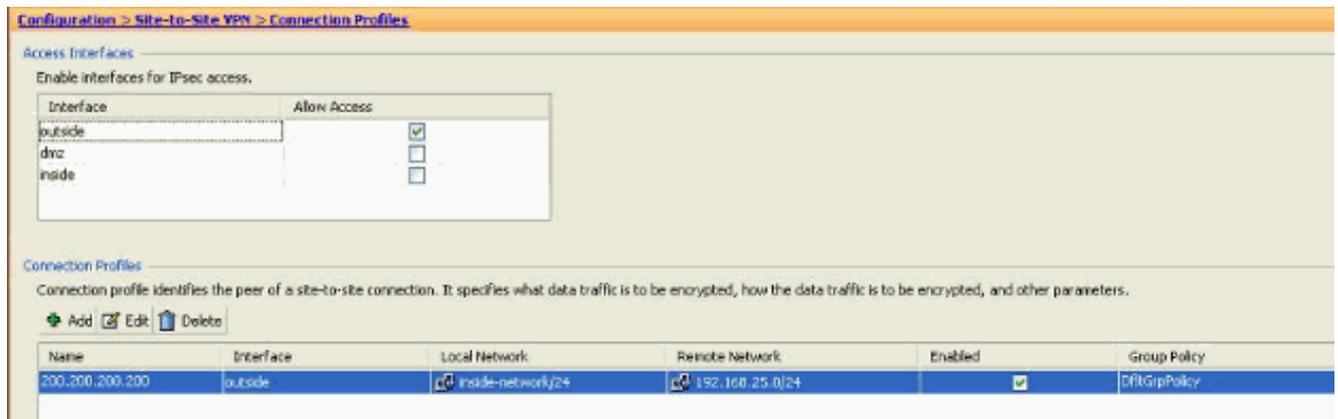
ASDM Configuration

This section provides information about the possible methods used to change VPN peer information on HQASA using the ASDM.

Create a New Connection Profile

This can be the easier method because it does not disturb the existing VPN configuration and can create a new connection profile with the new VPN peer related information.

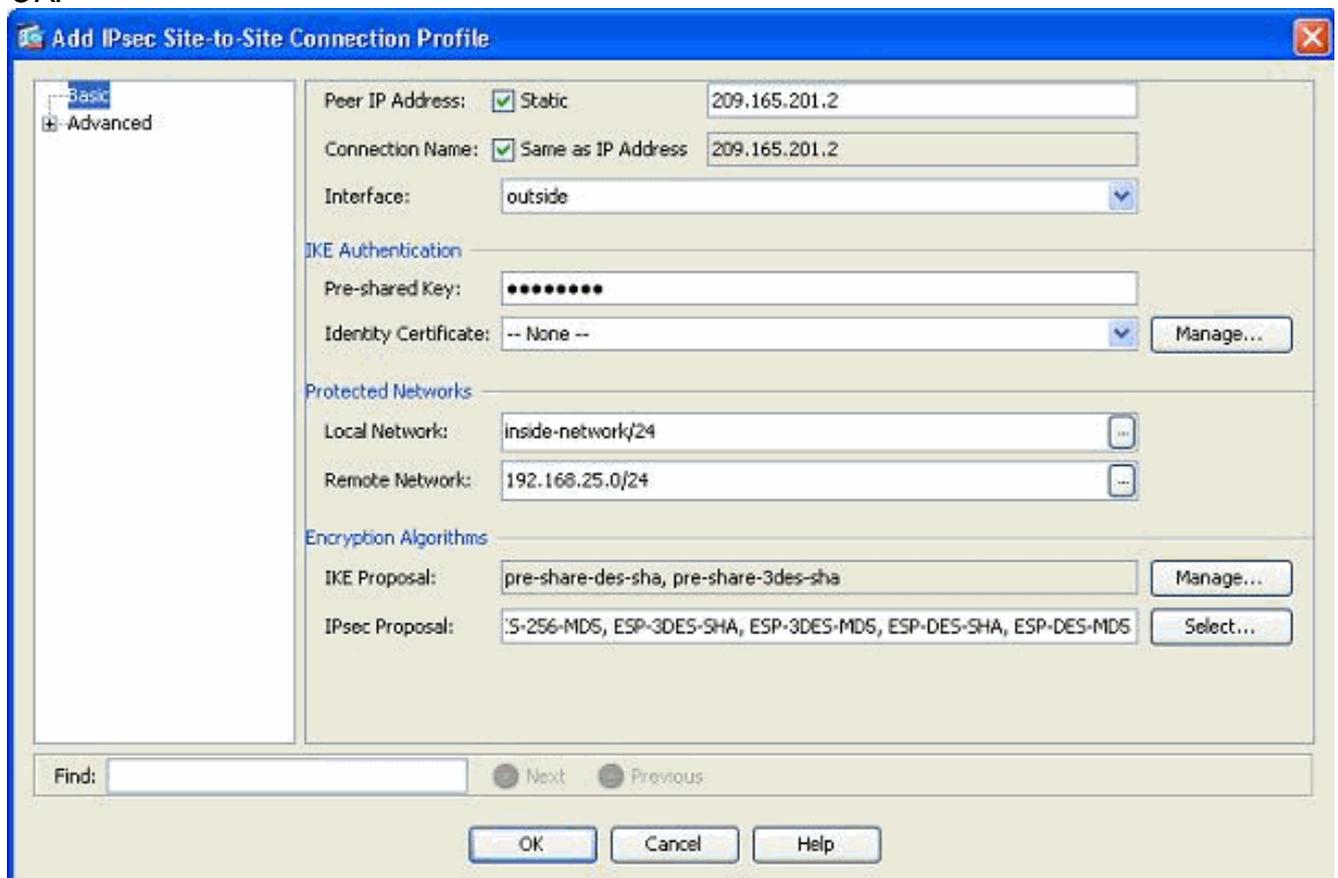
1. Go to *Configuration > Site-to-Site VPN > Connection Profiles* and click *Add* under the Connection Profiles area.



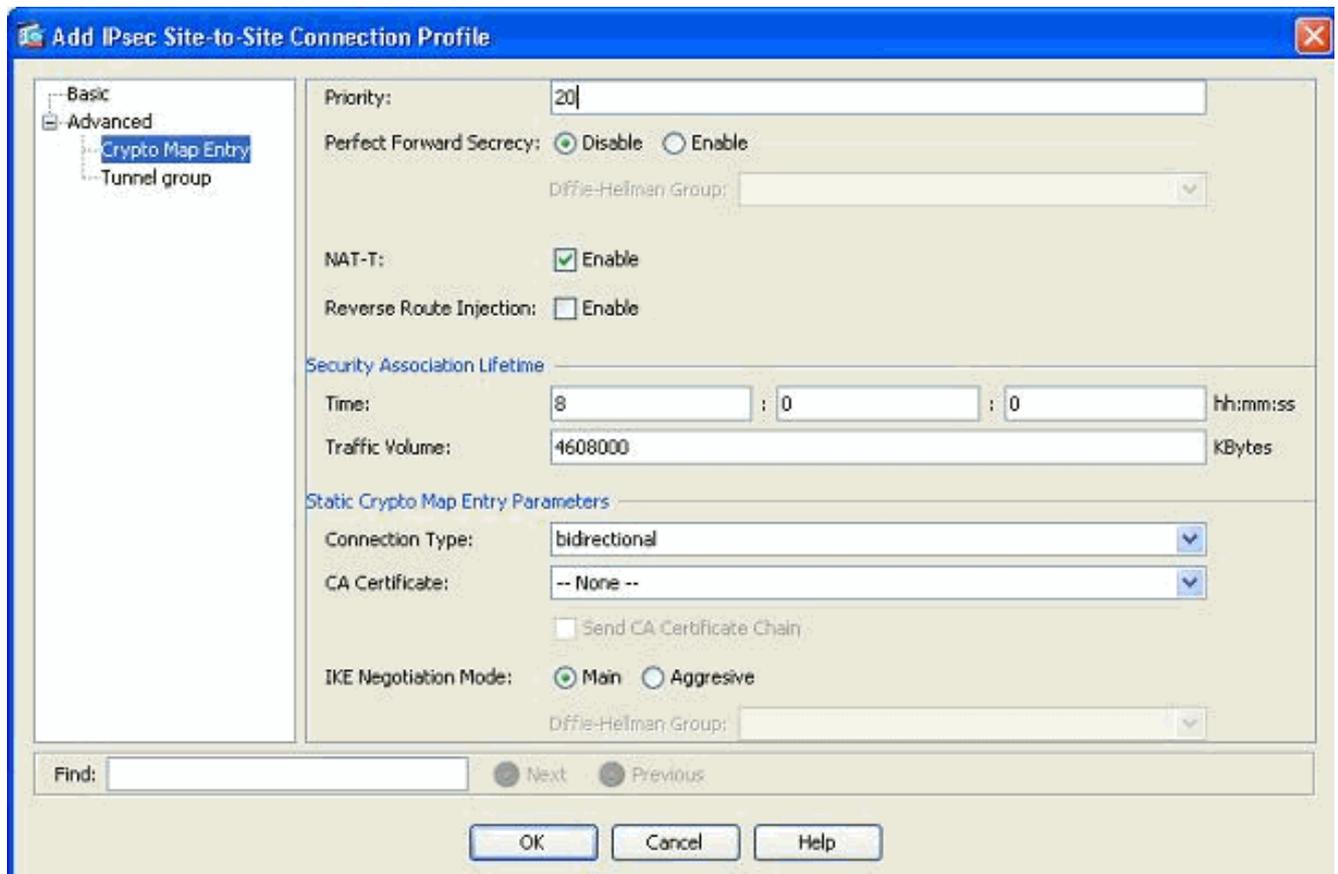
The *Add IPsec Site-to-Site Connection Profile* window opens up.

- Under the Basic tab, provide the details for *Peer IP Address*, *Pre-shared Key*, and *Protected Networks*. Use all the same parameters as the existing VPN, except the peer information.

Click
OK.



- Under the Advanced menu, click *Crypto Map Entry*. Refer to the *Priority* tab. This Priority is equal to the sequence number in its equivalent CLI configuration. When a lesser number than the existing crypto map entry is assigned, this new profile is executed first. The higher the priority number, the lesser the value. This is used to change the order of sequence that a specific crypto map will be executed. Click *OK* to complete creating the new connection profile.



This automatically creates a new tunnel-group along with an associated crypto map. Make sure you can reach the BQASA with the new IP address before you use this new connection profile.

[Edit the Existing VPN Configuration](#)

Another way of adding a new peer is to modify the existing configuration. The existing connection profile cannot be edited for the new peer information because it is bound to a specific peer. In order to edit the existing configuration, you need to perform these steps:

1. Create a New Tunnel Group
2. Edit the Existing Crypto Map

[Create a New Tunnel Group](#)

Go to *Configuration > Site-to-Site VPN > Advanced > Tunnel groups* and click *Add* to create a new tunnel-group that contains the new VPN peer information. Specify the *Name* and *Pre-shared Key* fields, then click *OK*.

Note: Make sure the Pre-shared Key matches the other end of the VPN.

Add IPsec Site-to-site Tunnel Group

Name: 209.165.201.2

IKE Authentication

Pre-shared Key: ●●●●●●●●

Identity Certificate: -- None -- Manage...

Send Certificate Chain: Enable

IKE Peer ID Validation: Required

IKE Keepalive

Disable keepalives

Monitor keepalives

Confidence Interval: seconds

Retry Interval: seconds

Headend will never initiate keepalive monitoring

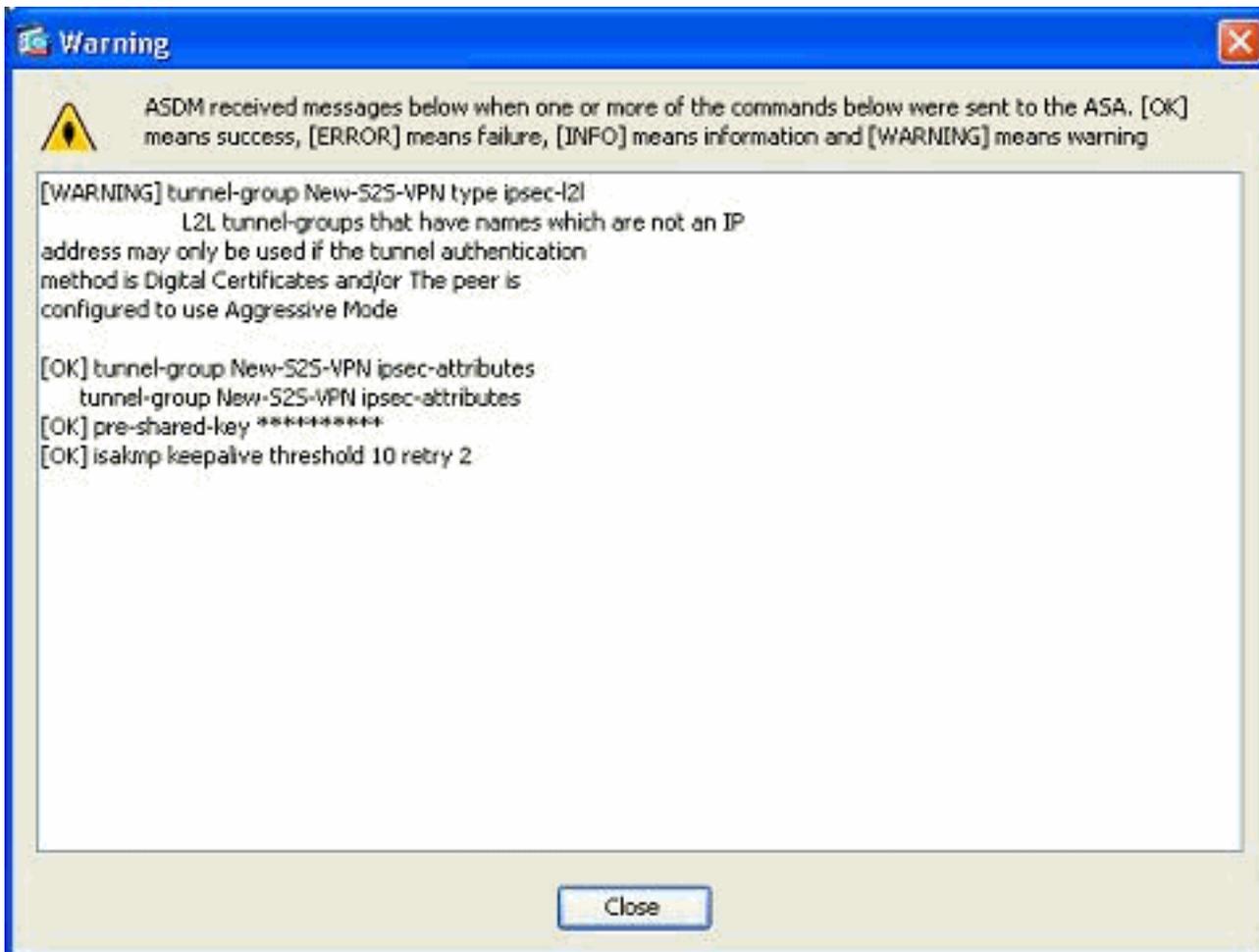
Default Group Policy

Group Policy: DfltGrpPolicy Manage...

IPsec Protocol: Enabled

OK Cancel Help

Note: In the Name field, only the IP address of the remote peer should be entered when the authentication mode is pre-shared keys. Any name can be used only when the authentication method is through certificates. This error appears when a name is added in the Name field and the authentication method is pre-shared:

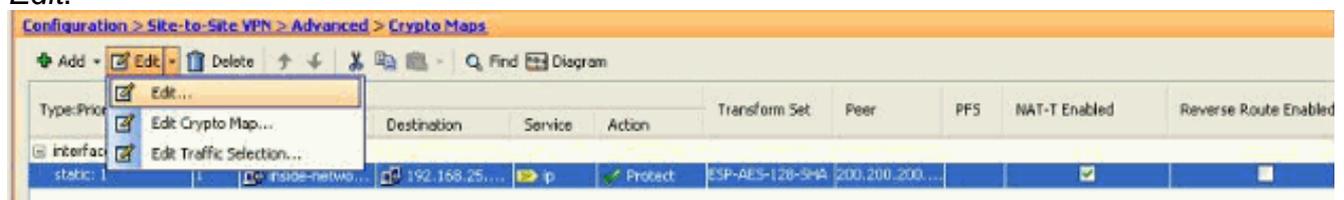


Edit the Existing Crypto Map

The existing crypto map can be edited in order to associate the new peer information.

Complete these steps:

1. Go to *Configuration > Site-to-Site VPN > Advanced > Crypto Maps*, then select the required crypto map and click *Edit*.



The *Edit IPsec Rule* window appears.

2. Under the Tunnel Policy (Basic) tab, in the Peer Settings area, specify the new peer in the IP Address of Peer to be added field. Then, click *Add*.

Edit IPsec Rule

Tunnel Policy (Crypto Map) - Basic | Tunnel Policy (Crypto Map) - Advanced | Traffic Selection

Interface: outside Policy Type: static Priority: 1

Transform Sets

Transform Set to Be Added:

ESP-AES-128-MD5 Add >> ESP-AES-128-SHA Move Up

Remove Move Down

Peer Settings - Optional for Dynamic Crypto Map Entries

The Connection Type is applicable to static tunnel policies only. Uni-directional connection type policies are used for LAN-to-LAN redundancy. Tunnel policies of the 'Originate Only' connection type may specify up to 10 redundant peers.

Connection Type: bidirectional

IP Address of Peer to Be Added:

209.165.201.2 Add >> 200.200.200.200 Move Up

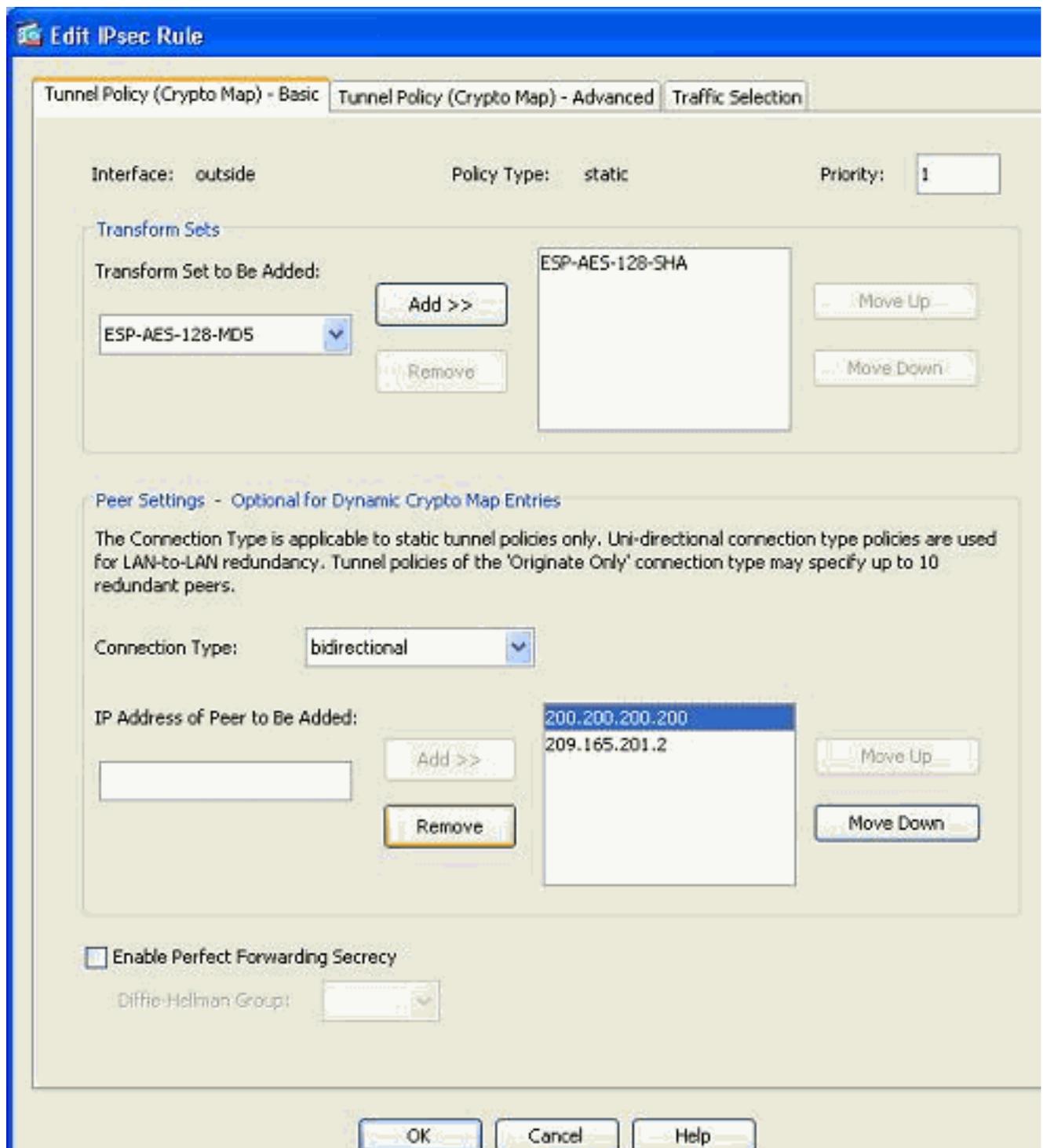
Remove Move Down

Enable Perfect Forwarding Secrecy

Diffie-Hellman Group:

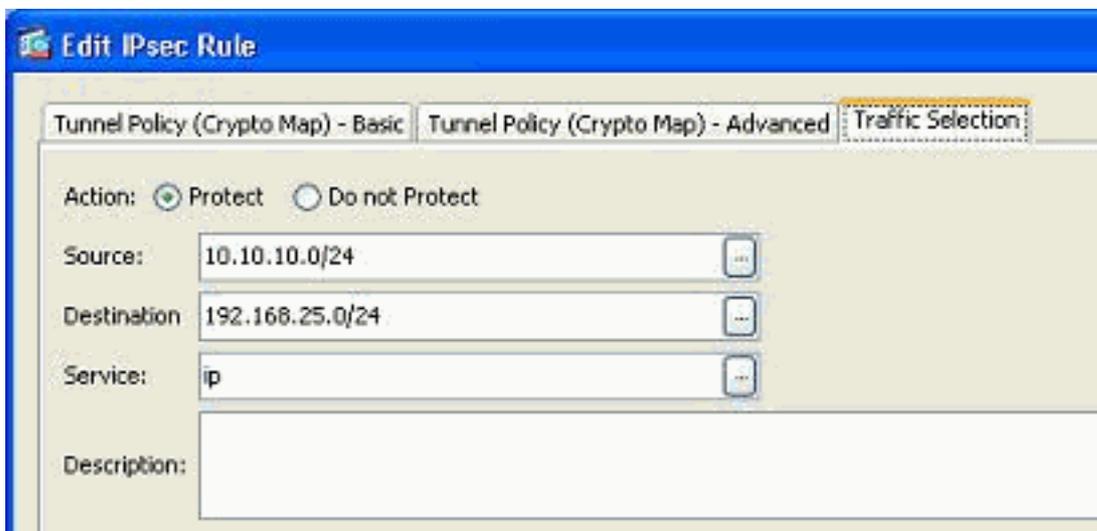
OK Cancel Help

3. Select the existing peer IP address and click *Remove* to retain the new peer information only. Click *OK*.



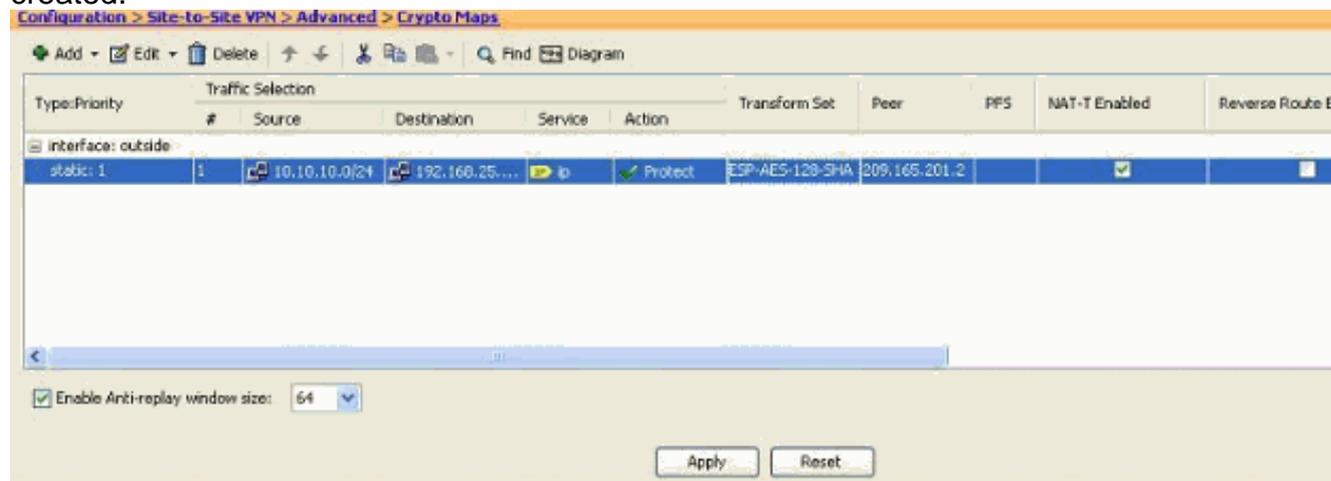
Note: After you modify the peer information in the current crypto map, the Connection Profile associated with this crypto map is deleted instantly in the ASDM window.

4. The details of the encrypted networks remain the same. If you need to modify these, go to the *Traffic Selection*



tab.

- Go to the *Configuration > Site-to-Site VPN > Advanced > Crypto Maps* pane in order to view the modified crypto map. However, these changes do not take place until you click *Apply*. After you click *Apply*, go to the *Configuration > Site-to-Site VPN > Advanced > Tunnel groups* menu in order to verify if an associated tunnel-group is present or not. If yes, then an associated *Connection Profile* will be created.



Verify

Use this section in order to confirm that your configuration works properly.

The [Output Interpreter Tool](#) ([registered](#) customers only) (OIT) supports certain **show** commands. Use the OIT to view an analysis of **show** command output.

- Use this command to view the security association parameters specific to a single peer: [show crypto ipsec sa peer <Peer IP address>](#)

Troubleshoot

Use this section to troubleshoot your configuration.

[IKE Initiator unable to find policy: Intf test_ext, Src: 172.16.1.103, Dst: 10.1.4.251](#)

This error is displayed in the log messages when trying to change the VPN peer from a VPN concentrator to ASA.

Solution:

This can be a result of improper configuration steps followed during the migration. Ensure that the crypto binding to the interface is removed before you add a new peer. Also, make sure that you used the IP address of the peer in the tunnel-group, but not the name.

Related Information

- [Site to Site \(L2L\) VPN with ASA](#)
- [Most Common VPN Problems](#)
- [ASA Technical Support Page](#)
- [Technical Support & Documentation - Cisco Systems](#)