

VPN Quick Start Guide

SAMPLE USE CASE USING TWO MBR1200's

Alice and Bob both have an MBR1200. For Alice and Bob to configure a secure tunnel between them, they need exchange the following information about their network configuration: *a public IP address, private network address range, and a secret password they both know.*

Alice's Network Settings

Public IP: 1.1.1.1

Private Network: 10.0.1.0 - 255.255.255.0

Bob's Network Settings

Private IP: 2.2.2.2

Private Network: 10.0.2.0 - 255.255.255.0

Secret Password: wolfman8

First, Alice enters in the following information into her router on the Tools -> IPsec/VPN Administration page:

- 1) **Name:** She enters in "Tunnel-to-Bob"
- 2) **Remote Gateway:** She enters in Bob's IP Address of "2.2.2.2"
- 3) **Remote Network:** She enters in Bob's Network Address of "10.0.2.0"
- 4) **Pre Shared Key:** She enters in the secret password "wolfman8"

Next, Bob enters in the following information into her router on the Tools -> IPsec/VPN Administration page:

- 1) **Name:** She enters in "Tunnel-to-Alice"
- 2) **Remote Gateway:** She enters in Bob's IP Address of "1.1.1.1"
- 3) **Remote Network:** She enters in Bob's Network Address of "10.0.1.0"
- 4) **Pre Shared Key:** She enters in the secret password "wolfman8"

After Alice & Bob save each of their policies, the tunnel will automatically be established when they want to connect to each other over the Internet.

Finally, apply the full set of defaults on the IPSEC VPN Administration page (on reverse side).

For more information on VPN Configuration, please visit www.cradlepoint.com/knowledge-base



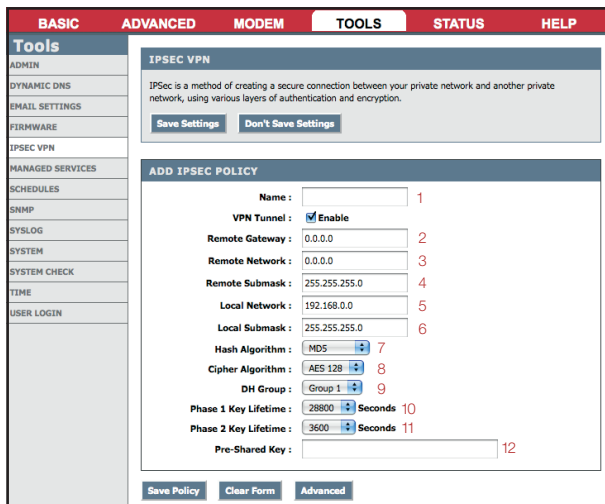
Connects with any WiFi-enabled or Ethernet Device

SAMPLE USE CASE USING AN MBR1200 and CISCO ASA 5505

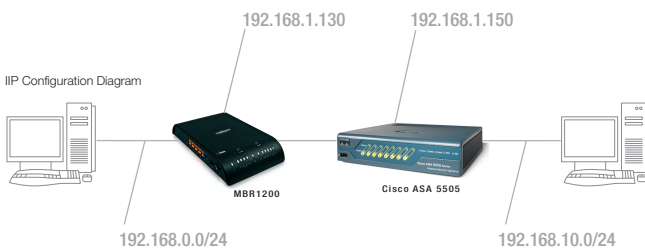
Below is the basic settings for the MBR1200 and the Cisco ASA 5505.
Match up the numbers to the specific information required.

MBR1200 Configuration

- 1) **Name:** Test Connection
- 2) **Remote Gateway:** 192.168.1.150 (Static config DHCP will break this)
- 3) **Remote Network:** 192.168.10.0
- 4) **Remote Submask:** 255.255.255.0
- 5) **Local Network:** 192.168.0.0
- 6) **Local Submask:** 255.255.255.0
- 7) **Hash Algorithm:** MD5
- 8) **Cipher Algorithm:** AES
- 9) **DH Group:** Group 1
- 10) **Phase 1 Key Lifetime:** 28800 Seconds
- 11) **Phase 2 Key Lifetime:** 3600 Seconds
- 12) **Pre-Shared Key:** wolfman8



Sample MBR1200 Default Screen



Connects with any WiFi-enabled or Ethernet Device

Cisco ASA 5505 Configuration

Outside IP: 192.168.1.150 (DHCP Leased form 192.168.1.1)
Inside IP: 192.168.10.1 (DHCP Leased form 192.168.1.1)

```
interface Vlan1
nameif inside
security level 0
ip address 192.168.10.1 255.255.255.0 (5,6)
```

```
interface Vlan2
nameif outside
security level 0
ip address dhcp setroute
```

```
interface Ethernet 0/0
switchport access vlan 2
```

```
access list outside_access_in extended permit icmp any any
```

```
access list outside_1_cryptomap extended permit ip 192.168.10.0
255.255.255.0 192.168.0.0 255.255.255.0 (3,4)
```

```
access list outside_nat0_outbound extended permit ip 192.168.10.0
255.255.255.0 192.168.0.0 255.255.255.0 (3,4)
```

```
nat (inside) 0 access-list inside_nat0_outbound
nat (inside) 1 192.168.10.0 255.255.255.0 (3,4)
access group outside_access_in in interface outside
```

```
crypto ipsec transform-set ESP-AES-128-MD5 esp-aes esp-md5-hmac (7,8)
crypto map outside_map 1 match address outside_1_cryptomap (2,3)
crypto map outside_map 1 set pfs group1 (9)
crypto map outside_map 1 set peer 192.168.1.130 (2)
crypto map outside_map 1 set transform-set ESP-AES-128-MD5 (7,8)
crypto map outside_map 1 set security-association lifetime seconds 3600 (11)
crypto map outside_map 1 set phase1-mode aggressive group1 (9)
crypto map outside_map interface outside
crypto isakmp enable outside
```

```
crypto isakmp policy 1
authentication pre-share (12)
encryption aes (8)
hash md5 (7)
group 1 (9)
lifetime 28800 (10)
```

```
tunnel group 192.168.1.130 type ipsec-121 (2)
tunnel group 192.168.1.130 ipsec-attributes (2)
pre-share key wolfman8 (12)
```