



Configuration Guide

Cisco ASA 5510

WebSite: <u>http://www.thegreenbow.com</u>

Contact: <u>support@thegreenbow.com</u>

Configuration Guide written by:

Writer:Carlos AstorCompany:www.integrasti.com.br



Doc.Ref	tgbvpn_ug_Cisco-ASA-5510_en
Doc.version	1.3 – Oct 2008
VPN version	4.x

Table of contents

1	Intro	duction	. 3
	1.1	Goal of this document	. 3
	1.2	VPN Network topology	. 3
	1.3	Cisco ASA 5510 VPN Gateway	. 3
	1.4	Cisco ASA 5510 VPN Gateway product info	. 3
2	Cisc	o ASA 5510 VPN configuration	. 4
	2.1	Cisco ASA 5510 Router command lines	. 4
3	The	GreenBow IPSec VPN Client configuration	. 7
	3.1	VPN Client Phase 1 (IKE) Configuration	. 7
	3.2	VPN Client Phase 1 (IKE) Advanced	. 8
	3.3	VPN Client Phase 2 (IPSec) Configuration	. 8
	3.4	Open IPSec VPN tunnels	. 9
	0		
4	Тоо	Is in case of trouble	10
4	Too 4.1	ls in case of trouble A good network analyser: Wireshark	10 10
4 5	Too 4.1 VPN	Is in case of trouble A good network analyser: Wireshark I IPSec Troubleshooting	10 10 11
4 5	Too 4.1 VPN 5.1	Is in case of trouble A good network analyser: Wireshark I IPSec Troubleshooting « PAYLOAD MALFORMED » error (wrong Phase 1 [SA])	10 10 11 11
4 5	Too 4.1 VPN 5.1 5.2	Is in case of trouble A good network analyser: Wireshark I IPSec Troubleshooting « PAYLOAD MALFORMED » error (wrong Phase 1 [SA]) (INVALID COOKIE » error	10 10 11 11 11
4 5	Too 4.1 VPN 5.1 5.2 5.3	Is in case of trouble A good network analyser: Wireshark I IPSec Troubleshooting « PAYLOAD MALFORMED » error (wrong Phase 1 [SA]) « INVALID COOKIE » error « no keystate » error	10 10 11 11 11 11
4	Too 4.1 VPN 5.1 5.2 5.3 5.4	Is in case of troubleA good network analyser: Wireshark	10 10 11 11 11 11
4	Too 4.1 VPN 5.1 5.2 5.3 5.4 5.5	I IPSec Troubleshooting	10 10 11 11 11 11 11 11
4	Too 4.1 VPN 5.1 5.2 5.3 5.4 5.5 5.6	I IPSec Troubleshooting « PAYLOAD MALFORMED » error (wrong Phase 1 [SA])	10 10 11 11 11 11 12 12
4	Too 4.1 VPN 5.1 5.2 5.3 5.4 5.5 5.6 5.7	Is in case of troubleA good network analyser: Wireshark I IPSec Troubleshooting « PAYLOAD MALFORMED » error (wrong Phase 1 [SA]) « INVALID COOKIE » error « no keystate » error « received remote ID other than expected » error « NO PROPOSAL CHOSEN » error « INVALID ID INFORMATION » error I clicked on "Open tunnel", but nothing happens	10 10 11 11 11 11 12 12 12
4	Too 4.1 5.1 5.2 5.3 5.4 5.5 5.6 5.7 5.8	I IPSec Troubleshooting	10 10 11 11 11 11 12 12 12

Doc.Ref	tgbvpn_ug_Cisco-ASA-5510_en
Doc.version	1.3 – Oct 2008
VPN version	4.x

1 Introduction

1.1 Goal of this document

This configuration guide describes how to configure TheGreenBow IPSec VPN Client with a Cisco ASA 5510 VPN router.

1.2 VPN Network topology

In our VPN network example (diagram hereafter), we will connect TheGreenBow IPSec VPN Client to the LAN behind the Cisco ASA 5510 router. The VPN client is connected to the Internet with a DSL connection or through a LAN. All the addresses in this document are given for example purpose.



1.3 Cisco ASA 5510 VPN Gateway

Our tests and VPN configuration have been conducted with Cisco ASA 5510 software release ASA 8.0(2), ASDM6.0(2).

1.4 Cisco ASA 5510 VPN Gateway product info

It is critical that users find all necessary information about Cisco ASA 5510 VPN Gateway. All product info, User Guide and knowledge base for the Cisco ASA 5510 VPN Gateway can be found on the Cisco ASA 5510 website: http://www.cisco.com/en/US/products/ps6120/index.html

Cisco ASA 5510 Product page	http://www.cisco.com/en/US/products/ps6120/prod_literature.html
Cisco ASA 5510 User Guide	http://www.cisco.com/en/US/products/ps6120/products installation and co
	nfiguration_guides_list.html
Cisco ASA 5510 FAQ/Knowledge	http://www.cisco.com/en/US/products/ps6120/tsd_products_support_series
Base	home.html

THECOECOEMI (1911)	Doc.Ref	tgbvpn_ug_Cisco-ASA-5510_en
	Doc.version	1.3 – Oct 2008
	VPN version	4.x

2 Cisco ASA 5510 VPN configuration

This section describes how to build an IPSec VPN configuration with your Cisco ASA 5510 VPN router.

Once connected to your Cisco ASA 5510 VPN gateway, here are the command lines.

2.1 Cisco ASA 5510 Router command lines

```
: Saved
ASA Version 8.0(2)
1
hostname ciscoasa
domain-name default.domain.invalid
enable password 123456789 encrypted
names
dns-guard
1
interface Ethernet0/0
nameif Interna
 security-level 100
ip address 192.168.0.1 255.255.255.0
!
interface Ethernet0/1
 nameif Externa
 security-level 0
ip address 10.20.10.1 255.255.255.0
interface Ethernet0/2
 shutdown
 no nameif
 security-level 0
no ip address
1
interface Ethernet0/3
 shutdown
 no nameif
no security-level
no ip address
1
interface Management0/0
nameif management
 security-level 100
no ip address
management-only
1
passwd 12345678 encrypted
boot system disk0:/asa802-K8.bin
ftp mode passive
dns server-group DefaultDNS
domain-name default.domain.invalid
                                          192.168.0.0 255.255.255.0
access-list 150
                  extended permit
                                      ip
                                                                        192.168.11.0
255.255.255.0
access-list pocket@vpn.com_splitTunnelAcl standard permit 192.168.0.0 255.255.255.0
pager lines 24
logging enable
logging buffered debugging
logging asdm informational
mtu Interna 1500
mtu Externa 1500
mtu management 1500
ip local pool vpnpool 192.168.11.1-192.168.11.254
ip verify reverse-path interface Interna
ip verify reverse-path interface Externa
icmp unreachable rate-limit 1 burst-size 1
```

THEGR	ΠB	6811969

Doc.Ref	tgbvpn_ug_Cisco-ASA-5510_en
Doc.version	1.3 – Oct 2008
VPN version	4.x

asdm image disk0:/asdm521.bin no asdm history enable arp timeout 14400 route Externa 0.0.0.0 0.0.0.0 10.20.10.1 1 timeout xlate 3:00:00 timeout conn 1:00:00 half-closed 0:10:00 udp 0:02:00 icmp 0:00:02 timeout sunrpc 0:10:00 h323 0:05:00 h225 1:00:00 mgcp 0:05:00 mgcp-pat 0:05:00 timeout sip 0:30:00 sip_media 0:02:00 sip-invite 0:03:00 sip-disconnect 0:02:00 timeout uauth 0:05:00 absolute dynamic-access-policy-record DfltAccessPolicy nac-policy DfltGrpPolicy-nac-framework-create nac-framework reval-period 36000 sq-period 300 aaa authentication telnet console LOCAL aaa authentication ssh console LOCAL aaa authentication http console LOCAL aaa authentication enable console LOCAL http server enable http 0.0.0.0 0.0.0.0 Interna no snmp-server location no snmp-server contact sysopt connection permit-vpn crypto ipsec transform-set ESP-3DES-SHA esp-3des esp-sha-hmac crypto ipsec transform-set ESP-AES-256-MD5 esp-aes-256 esp-md5-hmac crypto ipsec transform-set ESP-DES-SHA esp-des esp-sha-hmac crypto ipsec transform-set ESP-DES-MD5 esp-des esp-md5-hmac crypto ipsec transform-set myset esp-3des esp-sha-hmac crypto ipsec transform-set ESP-AES-256-SHA esp-aes-256 esp-sha-hmac crypto ipsec transform-set ESP-3DES-MD5 esp-3des esp-md5-hmac crypto ipsec transform-set ESP-AES-192-MD5 esp-aes-192 esp-md5-hmac crypto ipsec transform-set ESP-AES-128-SHA esp-aes esp-sha-hmac crypto ipsec transform-set ESP-AES-192-SHA esp-aes-192 esp-sha-hmac crypto ipsec transform-set ESP-AES-128-MD5 esp-aes esp-md5-hmac crypto dynamic-map SYSTEM_DEFAULT_CRYPTO_MAP 65535 set pfs crypto dynamic-map SYSTEM_DEFAULT_CRYPTO_MAP 65535 set transform-set ESP-AES-128-SHA ESP-AES-128-MD5 ESP-AES-192-SHA ESP-AES-192-MD5 ESP-AES-256-SHA ESP-AES-256-MD5 ESP-3DES-SHA ESP-3DES-MD5 ESP-DES-SHA ESP-DES-MD5 crypto dynamic-map SYSTEM_DEFAULT_CRYPTO_MAP 65535 set nat-t-disable crypto map mymap 65535 ipsec-isakmp dynamic SYSTEM_DEFAULT_CRYPTO_MAP crypto map mymap interface Externa crypto isakmp enable Externa crypto isakmp policy 65535 authentication pre-share encryption 3des hash sha group 2 lifetime 86400 no crypto isakmp nat-traversal telnet timeout 5 ssh timeout 5 ssh version 2 console timeout 0 threat-detection basic-threat threat-detection statistics access-list class-map class_sip_tcp match port tcp eq sip class-map inspection_default match default-inspection-traffic 1 1 policy-map type inspect dns preset_dns_map parameters message-length maximum 512 policy-map global_policy class inspection_default inspect icmp inspect dns preset_dns_map



Doc.Ref	tgbvpn_ug_Cisco-ASA-5510_en
Doc.version	1.3 – Oct 2008
VPN version	4.x

inspect ftp inspect h323 h225 inspect h323 ras inspect netbios inspect rsh inspect rtsp inspect skinny inspect esmtp inspect sqlnet inspect sunrpc inspect tftp inspect sip inspect xdmcp class class_sip_tcp inspect sip policy-map type inspect dns migrated_dns_map_1 parameters message-length maximum 512 1 service-policy global_policy global group-policy DfltGrpPolicy attributes vpn-simultaneous-logins 20 vpn-tunnel-protocol IPSec l2tp-ipsec nac-settings value DfltGrpPolicy-nac-framework-create webvpn svc dpd-interval client none svc dpd-interval gateway none group-policy pocket@vpn.com internal group-policy pocket@vpn.com attributes vpn-tunnel-protocol IPSec split-tunnel-policy tunnelspecified split-tunnel-network-list value pocket@vpn.com_splitTunnelAcl username pocketvpn password ltT0Umxsjt92h2um encrypted privilege 0 username pocketvpn attributes vpn-group-policy pocket@vpn.com tunnel-group DefaultL2LGroup ipsec-attributes isakmp keepalive threshold 60 retry 2 tunnel-group DefaultRAGroup ipsec-attributes isakmp keepalive threshold 60 retry 2 tunnel-group pocket@vpn.com type remote-access tunnel-group pocket@vpn.com general-attributes address-pool vpnpool default-group-policy pocket@vpn.com tunnel-group pocket@vpn.com ipsec-attributes pre-shared-key * tunnel-group-map enable rules prompt hostname context Cryptochecksum:75c4246e0696f8d6b8a627f1fa419e15 : end

THECOECOECOE	C	Doc.Ref	tgbvpn_ug_Cisco-ASA-5510_en
	C	Doc.version	1.3 – Oct 2008
	\mathbf{V}	VPN version	4.x

3 TheGreenBow IPSec VPN Client configuration

This section describes the required configuration to connect to a Cisco ASA 5510 VPN router.

To download the latest release of TheGreenBow IPSec VPN Client software, please go to <u>http://www.thegreenbow.com/vpn_down.html</u> or <u>http://www.thegreenbow.com/mobile_down.html</u> for VPN Mobile software. They both use the same VPN Configuration file.

3.1 VPN Client Phase 1 (IKE) Configuration

😳 TheGreenBow VPN Client		J
File VPN Configuration	/iew Tools ?	
THEGREENBOL	IPSec VPN Client Phase 1 (Authentication) Name TESTE Interface Any Interface Any Remote Gateway 10.20.10.1 Interface Any Confirm: Confirm: Confirm: Certificates Import IKE Encryption 3DES Authentication MD5 Key Group DH2 (1024)	The remote VPN Gateway IP address is either an explicit IP address, or a DNS Name abcdefqh abcdefqh
	Save & Apply	
VPN ready	Tunnel 🥑	

Phase 1 configuration

You may use either Preshared, Certificates, USB Tokens or X-Auth for User Authentication with the Cisco ASA 5510 router. This configuration is one example of can be accomplished in term of User Authentication. You may want to refer to either the Cisco ASA 5510 router user guide or TheGreenBow IPSec VPN Client User Guide for more details on User Authentication options.

0
C
V

Doc.Ref	tgbvpn_ug_Cisco-ASA-5510_en		
Doc.version	1.3 – Oct 2008		
VPN version	4.x		

3.2 VPN Client Phase 1 (IKE) Advanced

Phase1 Advanced	X
	A
	031
Advanced features	
🗖 Config Mode 🛛 Redund.GW	
Aggressive Mode NAT-T	Disabled 💌
X-Auth	
🗆 X-Auth Popup Login	pocketvpn
Hybrid Mode Password	*****
Local and Remote ID	
Choose the type of ID:	Set the value for the ID:
Local ID KEY ID 🔽	pocket@vpn.com
Remote ID	
	OK Cancel

In this Cisco ASA 5510 VPN configuration, the Aggressive Mode is selected, NAT-T is disabled, and X-Auth authentication method is used.

3.3 VPN Client Phase 2 (IPSec) Configuration



Phase 2 Configuration

H	EG	R	11	Ξ	B	M	6181	1981

Doc.Ref	tgbvpn_ug_Cisco-ASA-5510_en
Doc.version	1.3 – Oct 2008
VPN version	4.x

3.4 Open IPSec VPN tunnels

Once both Cisco ASA 5510 router and TheGreenBow IPSec VPN Client software have been configured accordingly, you are ready to open VPN tunnels. First make sure you enable your firewall with IPSec traffic.

1. Click on "Save & Apply" to take into account all modifications we've made on your VPN Client configuration

2. Click on "**Open Tunnel**", or generate traffic that will automatically open a secure IPSec VPN Tunnel (e.g. ping, IE browser)

3. Select "Connections" to see opened VPN Tunnels

4. Select "Console" if you want to access to the IPSec VPN logs and adjust filters to display less IPSec messaging. The following example shows a successful connection between TheGreenBow IPSec VPN Client and a Cisco ASA 5510 VPN router.

Here are the Cisco ASA 5510 logs:

CiscoASA(sucesso).log - Notepad
File Edit Format View Help
<pre>5 sep 03 2008 18:36:42 713120 Group = pocket@vpn.com, Username = pocketvpn, IP = xxx.xxx.xxx, PHASE 2 COMPLETED 6 sep 03 2008 18:36:42 602303 IPSEC: An inbound remote access SA (SPI= 0x4A7D3A8C) between xxx.xxx.xxx and xxx. 5 sep 03 2008 18:36:42 713049 Group = pocket@vpn.com, Username = pocketvpn, IP = xxx.xxx.xxx.xxx security negotiat 6 sep 03 2008 18:36:42 713149 Group = pocket@vpn.com, Username = pocketvpn, IP = xxx.xxx.xxx.xxx, xxx.xxx and xxx. 3 sep 03 2008 18:36:42 713119 Group = pocket@vpn.com, Username = pocketvpn, IP = xxx.xxx.xxx.xxx, xxx.xxx and xxx 3 sep 03 2008 18:36:42 713119 Group = pocket@vpn.com, Username = pocketvpn, IP = xxx.xxx.xxx.xxx, xxx.xxx and xxx 6 sep 03 2008 18:36:42 713119 Group = pocket@vpn.com, Username = pocketvpn, IP = xxx.xxx.xxx.xxx, xxx, xxx and xxx 6 sep 03 2008 18:36:42 113008 AAA transaction status ACCEPT : user = pocketvpn 6 sep 03 2008 18:36:42 113009 AAA retrieved default group policy (pocket@vpn.com) for user = pocketvpn 6 sep 03 2008 18:36:42 113003 AAA retrieved user specific group policy (pocket@vpn.com) for user = pocketvpn 6 sep 03 2008 18:36:42 113003 AAA group policy for user pocketvpn is being set to pocket@vpn.com 6 sep 03 2008 18:36:42 113001 AAA user authentication Successful : local database : user = pocketvpn</pre>

THEGP	REE	ΠB	811181

Doc.Ref	tgbvpn_ug_Cisco-ASA-5510_en
Doc.version	1.3 – Oct 2008
VPN version	4.x

4 Tools in case of trouble

Configuring an IPSec VPN tunnel can be a hard task. One missing parameter can prevent a VPN connection from being established. Some tools are available to find source of troubles during a VPN establishment.

4.1 A good network analyser: Wireshark

Wireshark is a free software that can be used for packet and traffic analysis. It shows IP or TCP packets received on a network card. This tool is available on website <u>http://www.wireshark.org</u>. It can be used to follow protocol exchange between two devices. For installation and use details, read its specific documentation (<u>http://www.wireshark.org/docs/</u>).

THEG	REÉRBOU	11181

Doc.Ref	tgbvpn_ug_Cisco-ASA-5510_en
Doc.version	1.3 – Oct 2008
VPN version	4.x

5 VPN IPSec Troubleshooting

5.1 « PAYLOAD MALFORMED » error (wrong Phase 1 [SA])

114920 Default (SA CNXVPN1-P1) SEND phase 1 Main Mode [SA][VID] 114920 Default (SA CNXVPN1-P1) RECV phase 1 Main Mode [NOTIFY] 114920 Default exchange_run: exchange_validate failed 114920 Default dropped message from 195.100.205.114 port 500 due to notification type PAYLOAD_MALFORMED 114920 Default SEND Informational [NOTIFY] with PAYLOAD_MALFORMED error

If you have an « PAYLOAD MALFORMED » error you might have a wrong Phase 1 [SA], check if the encryption algorithms are the same on each side of the VPN tunnel.

5.2 « INVALID COOKIE » error

115933 Default message_recv: invalid cookie(s) 5918ca0c2634288f 7364e3e486e49105 115933 Default dropped message from 195.100.205.114 port 500 due to notification type INVALID_COOKIE 115933 Default SEND Informational [NOTIFY] with INVALID_COOKIE error

If you have an « INVALID COOKIE » error, it means that one of the endpoint is using a SA that is no more in use. Reset the VPN connection on each side.

5.3 « no keystate » error

115315 Default (SA CNXVPN1-P1) SEND phase 1 Main Mode [SA][VID] 115317 Default (SA CNXVPN1-P1) RECV phase 1 Main Mode [SA][VID] 115317 Default (SA CNXVPN1-P1) SEND phase 1 Main Mode [KEY][NONCE] 115319 Default (SA CNXVPN1-P1) RECV phase 1 Main Mode [KEY][NONCE] 115319 Default (SA CNXVPN1-P1) SEND phase 1 Main Mode [ID][HASH][NOTIFY] 115319 Default ipsec_get_keystate: no keystate in ISAKMP SA 00B57C50

Check if the preshared key is correct or if the local ID is correct (see « Advanced » button). You should have more information in the remote endpoint logs.

5.4 « received remote ID other than expected » error

120348 Default (SA CNXVPN1-P1) SEND phase 1 Main Mode [SA][VID] 120349 Default (SA CNXVPN1-P1) RECV phase 1 Main Mode [SA][VID] 120349 Default (SA CNXVPN1-P1) SEND phase 1 Main Mode [KEY][NONCE] 120351 Default (SA CNXVPN1-P1) RECV phase 1 Main Mode [KEY][NONCE] 120351 Default (SA CNXVPN1-P1) SEND phase 1 Main Mode [ID][HASH][NOTIFY] 120351 Default (SA CNXVPN1-P1) RECV phase 1 Main Mode [ID][HASH][NOTIFY] 120351 Default (SA CNXVPN1-P1) RECV phase 1 Main Mode [ID][HASH][NOTIFY] 120351 Default (SA CNXVPN1-P1) RECV phase 1 Main Mode [ID][HASH][NOTIFY] 120351 Default ike_phase_1_recv_ID: received remote ID other than expected support@thegreenbow.fr

The « Remote ID » value (see « Advanced » Button) does not match what the remote endpoint is expected.

THEG	REÉ	NB Ø	111111111111111111111111111111111111111

Doc.Ref	tgbvpn_ug_Cisco-ASA-5510_en
Doc.version	1.3 – Oct 2008
VPN version	4.x

5.5 « NO PROPOSAL CHOSEN » error

115911 Default (SA CNXVPN1-P1) SEND phase 1 Main Mode [SA][VID] 115913 Default (SA CNXVPN1-P1) RECV phase 1 Main Mode [SA][VID] 115913 Default (SA CNXVPN1-P1) SEND phase 1 Main Mode [KEY][NONCE] 115915 Default (SA CNXVPN1-P1) RECV phase 1 Main Mode [KEY][NONCE] 115915 Default (SA CNXVPN1-P1) SEND phase 1 Main Mode [ID][HASH][NOTIFY] 115915 Default (SA CNXVPN1-P1) RECV phase 1 Main Mode [ID][HASH][NOTIFY] 115915 Default phase 1 done: initiator id c364cd70: 195.100.205.112, responder id c364cd72: 195.100.205.114, src: 195.100.205.112 dst: 195.100.205.114 CNXVPN1-CNXVPN1-P2) 115915 Default (SA SEND phase 2 Ouick Mode [SA][KEY][ID][HASH][NONCE] 115915 Default RECV Informational [HASH][NOTIFY] with NO_PROPOSAL_CHOSEN error 115915 Default RECV Informational [HASH][DEL] 115915 Default CNXVPN1-P1 deleted

If you have an « NO PROPOSAL CHOSEN » error, check that the « Phase 2 » encryption algorithms are the same on each side of the VPN Tunnel.

Check « Phase 1 » algorithms if you have this:

115911 Default (SA CNXVPN1-P1) SEND phase 1 Main Mode [SA][VID] 115911 Default RECV Informational [NOTIFY] with NO_PROPOSAL_CHOSEN error

5.6 « INVALID ID INFORMATION » error

```
122623 Default (SA CNXVPN1-P1) SEND phase 1 Main Mode[SA][VID]122625 Default (SA CNXVPN1-P1) RECV phase 1 Main Mode[SA][VID]122625 Default (SA CNXVPN1-P1) SEND phase 1 Main Mode[KEY][NONCE]
122626 Default (SA CNXVPN1-P1) RECV phase 1 Main Mode [KEY][NONCE]
122626 Default (SA CNXVPN1-P1) SEND phase 1 Main Mode [ID][HASH][NOTIFY]
122626 Default (SA CNXVPN1-P1) RECV phase 1 Main Mode [ID][HASH][NOTIFY]
122626 Default phase 1 done: initiator id c364cd70: 195.100.205.112, responder id
c364cd72: 195.100.205.114, src: 195.100.205.112 dst: 195.100.205.114
                                  CNXVPN1-CNXVPN1-P2)
122626
            Default
                          (SA
                                                                 SEND
                                                                                             Ouick
                                                                                                        Mode
                                                                           phase
                                                                                       2
[SA][KEY][ID][HASH][NONCE]
122626 Default RECV Informational [HASH][NOTIFY] with INVALID_ID_INFORMATION error
122626 Default RECV Informational [HASH][DEL]
122626 Default CNXVPN1-P1 deleted
```

If you have an «INVALID ID INFORMATION » error, check if « Phase 2 » ID (local address and network address) is correct and match what is expected by the remote endpoint.

Check also ID type ("Subnet address" and "Single address"). If network mask is not check, you are using a IPV4_ADDR type (and not a IPV4_SUBNET type).

5.7 I clicked on "Open tunnel", but nothing happens.

Read logs of each VPN tunnel endpoint. IKE requests can be dropped by firewalls. An IPSec Client uses UDP port 500 and protocol ESP (protocol 50).

5.8 The VPN tunnel is up but I can't ping !

If the VPN tunnel is up, but you still cannot ping the remote LAN, here are a few guidelines:

- Check Phase 2 settings: VPN Client address and Remote LAN address. Usually, VPN Client IP address should not belong to the remote LAN subnet
- Once VPN tunnel is up, packets are sent with ESP protocol. This protocol can be blocked by firewall. Check that every device between the client and the VPN server does accept ESP
- Check your VPN server logs. Packets can be dropped by one of its firewall rules.
- Check your ISP support ESP

THECOECOP (M) 0401/0101	Doc.Ref	tgbvpn_ug_Cisco-ASA-5510_en
	Doc.version	1.3 – Oct 2008
	VPN version	4.x

- If you still cannot ping, follow ICMP traffic on VPN server LAN interface and on LAN computer interface (with Wireshark for example). You will have an indication that encryption works.
- Check the "default gateway" value in VPN Server LAN. A target on your remote LAN can receive pings but does not answer because there is a no "Default gateway" setting.
- You cannot access to the computers in the LAN by their name. You must specify their IP address inside the LAN.
- We recommend you to install Wireshark (http://www.wireshark.org) on one of your target computer. You can check that your pings arrive inside the LAN.

THEGR	EÉI	111181

Doc.Ref	tgbvpn_ug_Cisco-ASA-5510_en
Doc.version	1.3 – Oct 2008
VPN version	4.x

6 Contacts

News and updates on TheGreenBow web site: <u>http://www.thegreenbow.com</u> Technical support by email at <u>support@thegreenbow.com</u> Sales contacts by email at <u>sales@thegreenbow.com</u>