MR-200/250 and DR-250

The IPsec VPN Configuration





Technical Support

If you require assistance with any of the instructions in this application note you can contact Westermo as follows:

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Introduction

This application note describes how to implement an IPsec VPN between two Westermo MR or DR series routers. When creating a VPN between an MR and DR series router the MR should always be the Initiator and the DR the Responder. Applications where there are many remote location with VPN's to a single location (see diagram below) the Remote router should be the Initiator and the central location the Responder. To create VPN's from a Westermo MR or DR router to a third party router please contact your local Westermo support organization for advice.

VPN configuration over WAN network



Encapsulation using PPoE or PPoA

Westermo		A AND ALL AND A
Home	Configure: PPP 1 (Standard)	18412221
Configure PEP Around Base IP Address ADSL Interface VPN Configuration Users Finwall Save Reboot Status	Name: Username: Password (Assigned): Confirm password: IPSec:	ADSL 1489575936_col@dslconnect.co.u CN-Remove SAs when link down ×
		To allow the IPSEC packets over the PPP interface the lpsec must be set to on. Note changes to the PPP interface will require the interface to be dropped and restarted.

Encapsulation using Bridge mode





Eroute Setup

The tunnel parameters must be the same at both ends of the tunnel of the negotiation will fail

Initiator Eroute

Responder Eroute

Configure: IPSec EROUTE 0		Name for the	Configure: IPSoc EROUTE 1		
Description: Peer D/hostname: Peer ID: Our ID:	Demo Ensula Sintettor 83.34.56.61 Engle	termination point of the VPN tunnel	Desciption: Peer IP/hostname: Peer ID: Our ID:	Elemo Broute Recor Monik Bogie	onder .
Local submit IP address: Local submit mask: Remote submit IP address: Kanota submit IP address: Kanota submit mask: Hode: Ari automotization algorithm: EDP encrystion algorit	1923 2448 85.8 1982 258 258.9 1997 85.75 2 1997 85.75 2	These parameters must be the same at both end of the tunnel	Local submit (P) address Local submit (P) address Remote submit (P) address Remote submit (P) address Remote submit (P) address Remote submit (P) Remote Submit	127 67.5L0 255 215 255 3 132 108 32.6 255 255 255 3 255 255 255 3 756 255 3 305 25 305 25 25 25 25 25 25 25 25 25 25 25 25 25 2	The duration value controls the length time the SA will be valid.
Croate SV's automatically: Authentication method:	Yes Preshared Keys		Authentication method	Central Central	3

Preshared Key Setup



Config.da0 files shown are for a DR-250

Config.da0 Intitiator	Config.da0 Responder
CFG]	[CFG]
config last_saved "10:27:49, 19 Feb 2008"	config last_saved "10:27:49, 19 Feb 2008"
config last_saved_changes "1"	config last_saved_changes "1"
config last_saved_user "username"	config last_saved_user "username"
eth 0 IPaddr "192.168.83.1"	eth 0 IPaddr "197.67.51.1"
lapb 0 ans OFF	lapb 0 ans OFF
lapb 2 dtemode 2	lapb 2 dtemode 2
lapb 3 dtemode 2	lapb 3 dtemode 2
def_route 0 II_ent "PPP"	def_route 0 II_ent "PPP"
def_route 0 II_add 1	def_route 0 II_add 1
eroute 0 descr "Demo Eroute Initiator"	eroute 1 descr "Demo Eroute Responder"
eroute 0 peerip "80.34.56.91"	eroute 1 peerid "Hawk"
eroute 0 peerid "Eagle"	eroute 1 ourid "Eagle"
eroute 0 ourid "Hawk"	eroute 1 locip "197.67.51.0"
eroute 0 locip "192.168.83.0"	eroute 1 locmsk "255.255.255.0"
eroute 0 locmsk "255.255.255.0"	eroute 1 remip "192.168.83.0"
eroute 0 remip "197.67.51.0"	eroute 1 remmsk "255.255.255.0"
eroute 0 remmsk "255.255.255.0"	eroute 1 ESPauth "MD5"
eroute 0 ESPauth "MD5"	eroute 1 ESPenc "3DES"
eroute 0 ESPenc "3DES"	eroute 1 Itime 6000
eroute 0 ltime 6000	eroute 1 authmeth "PRESHARED"
eroute 0 authmeth "PRESHARED"	ppp 1 IPaddr "0.0.0.0"
eroute 0 nosa "TRY"	ppp 1 username "Enter ADSL Username"
eroute 0 autosa 2	ppp 1 timeout 0
ppp 1 IPaddr "0.0.0.0"	ppp 1 aodion 1
ppp 1 username "Enter ADSL Username"	ppp 1 autoassert 1
ppp 1 timeout 0	ppp 1 ipsec 1
ppp 1 aodion 1	ppp 1 echo 10
ppp 1 autoassert 1	ppp 1 echodropcnt 5
ppp 1 ipsec 1	ppp 1 I1iface "AAL"
ppp 1 echo 10	ana 0 anon ON
ppp 1 echodropcnt 5	ana 0 lapdon 0
ppp 1 I1iface "AAL"	ana 0 lapbon 0

Application Notes



Config.da0 Intitiator	Config.da0 Responder
ana 0 anon ON	ana 0 maxdata 200
ana 0 lapdon 0	ana 0 logsize 45
ana 0 lapbon 0	cmd 0 unitid "DR-250"
ana 0 maxdata 200	cmd 0 cmdnua "99"
ana 0 logsize 45	cmd 0 hostname "SS.6000r"
cmd 0 unitid "DR-250"	cmd 0 asyled_mode 1
cmd 0 cmdnua "99"	cmd 0 tremto 1200
cmd 0 hostname "SS.6000r"	user 0 name "username"
cmd 0 asyled_mode 1	user 0 access 0
cmd 0 tremto 1200	user 1 name "westermo"
user 0 name "username"	user 1 access 0
user 0 access 0	user 2 access 0
user 1 name "Westermo"	user 3 access 0
user 1 access 0	user 4 access 0
user 2 access 0	user 5 access 0
user 3 access 0	user 6 access 0
user 4 access 0	user 7 access 0
user 5 access 0	user 8 access 0
user 6 access 0	local 0 transaccess 2
user 7 access 0	[ENDCFG]
user 8 access 0	
user 14 name "Eagle"	
local 0 transaccess 2	
[ENDCFG]	