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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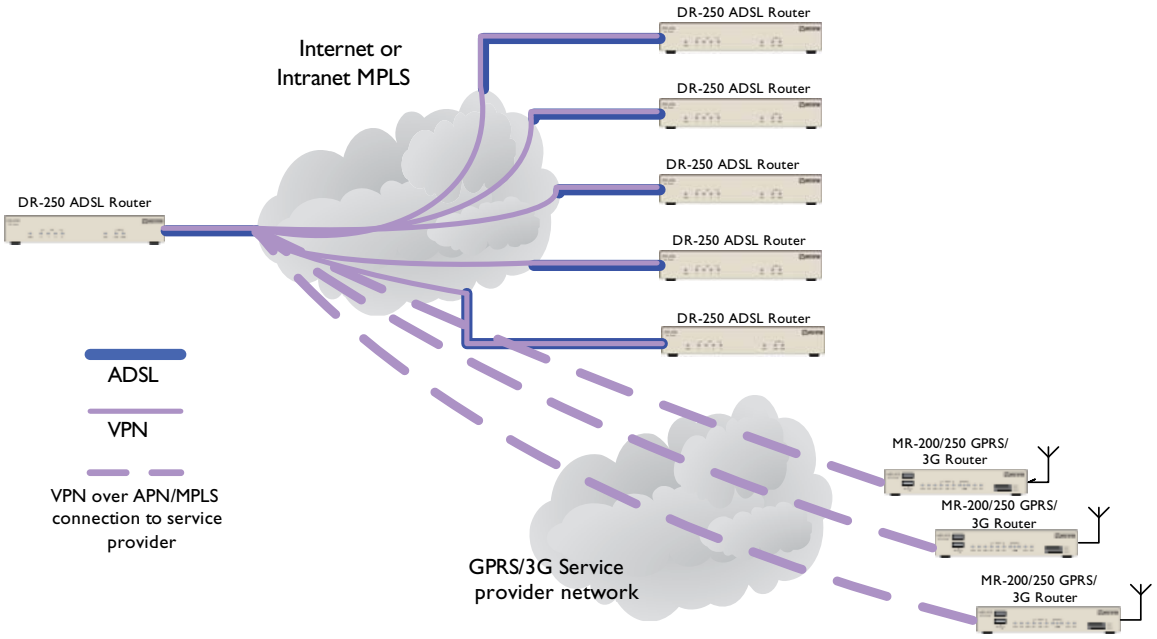
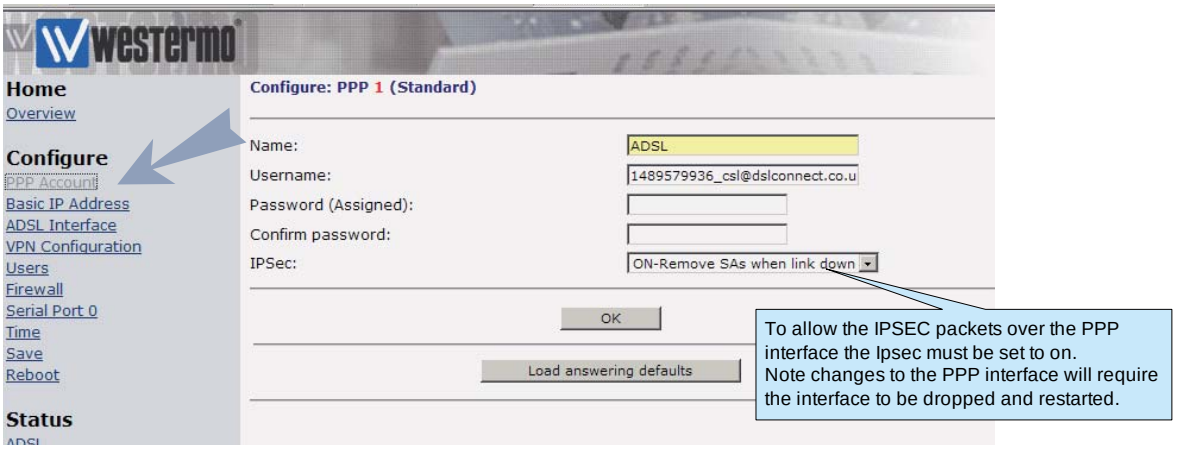
Introduction

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.

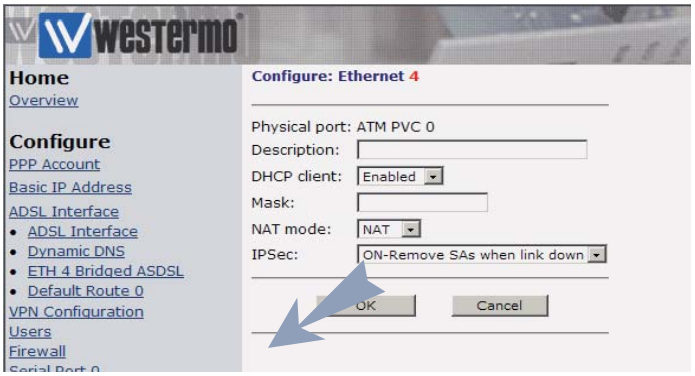
VPN configuration over WAN network



Encapsulation using PPoE or PPoA

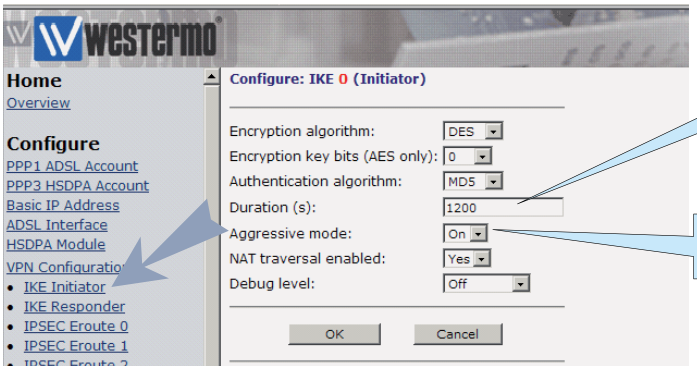


Encapsulation using Bridge mode



IKE 0 Initiator

The IKE responder can be left at default



The duration value controls the length of time the key will be valid. On GPRS and 3G based system it is a good idea to have a longer duration (Max 28800).

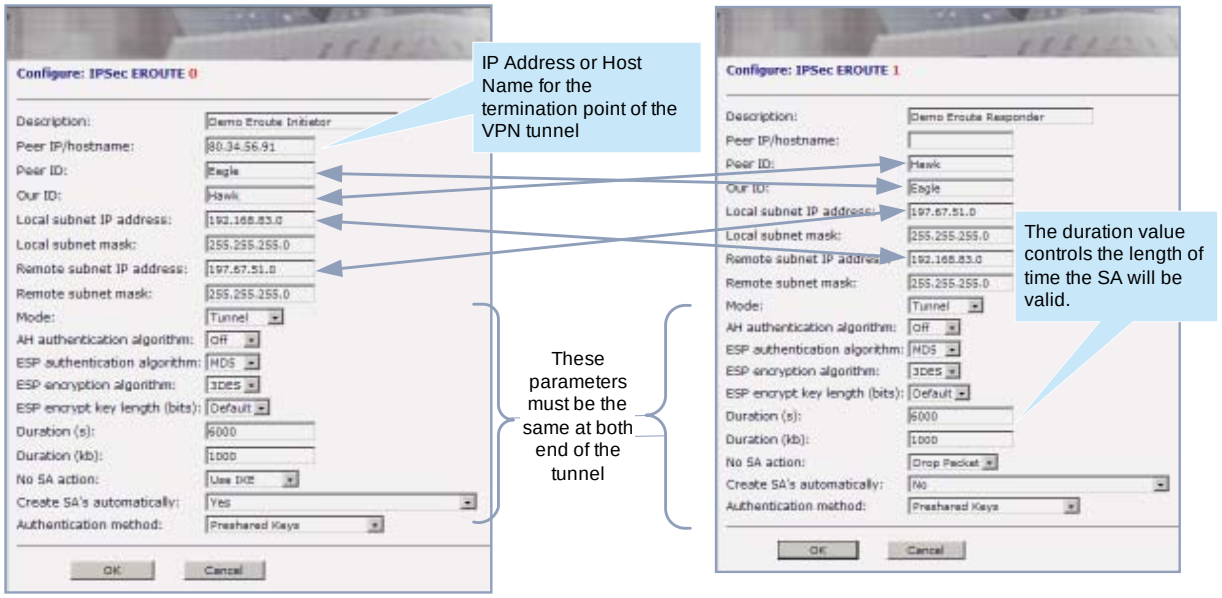
Turn Aggressive Mode On

Eroute Setup

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

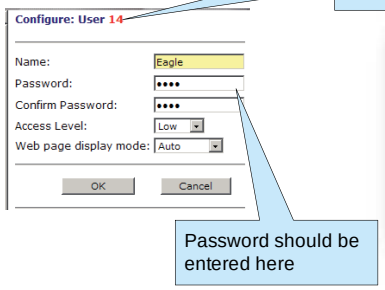
Initiator Eroute

Responder Eroute



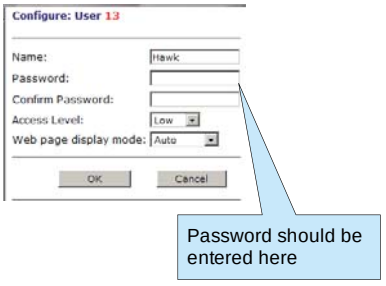
Preshared Key Setup

Preshared key entry Initiator



The user name will be the Peer ID. The password must be the same on both sides of the VPN

Preshared key entry Responder



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 ll_ent "PPP"	def_route 0 ll_ent "PPP"
def_route 0 ll_add 1	def_route 0 ll_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 ltime 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 l1iface "AAL"
ppp 1 echo 10	ana 0 anon ON
ppp 1 echodropcnt 5	ana 0 lapdon 0
ppp 1 l1iface "AAL"	ana 0 lapbon 0

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]	