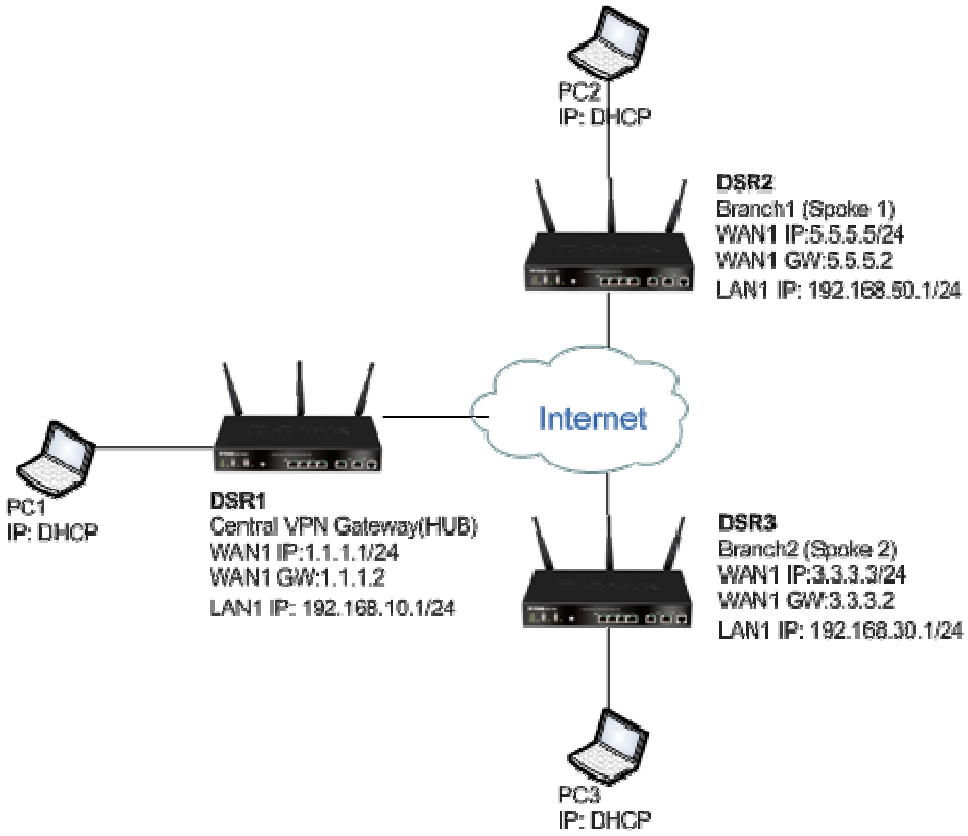
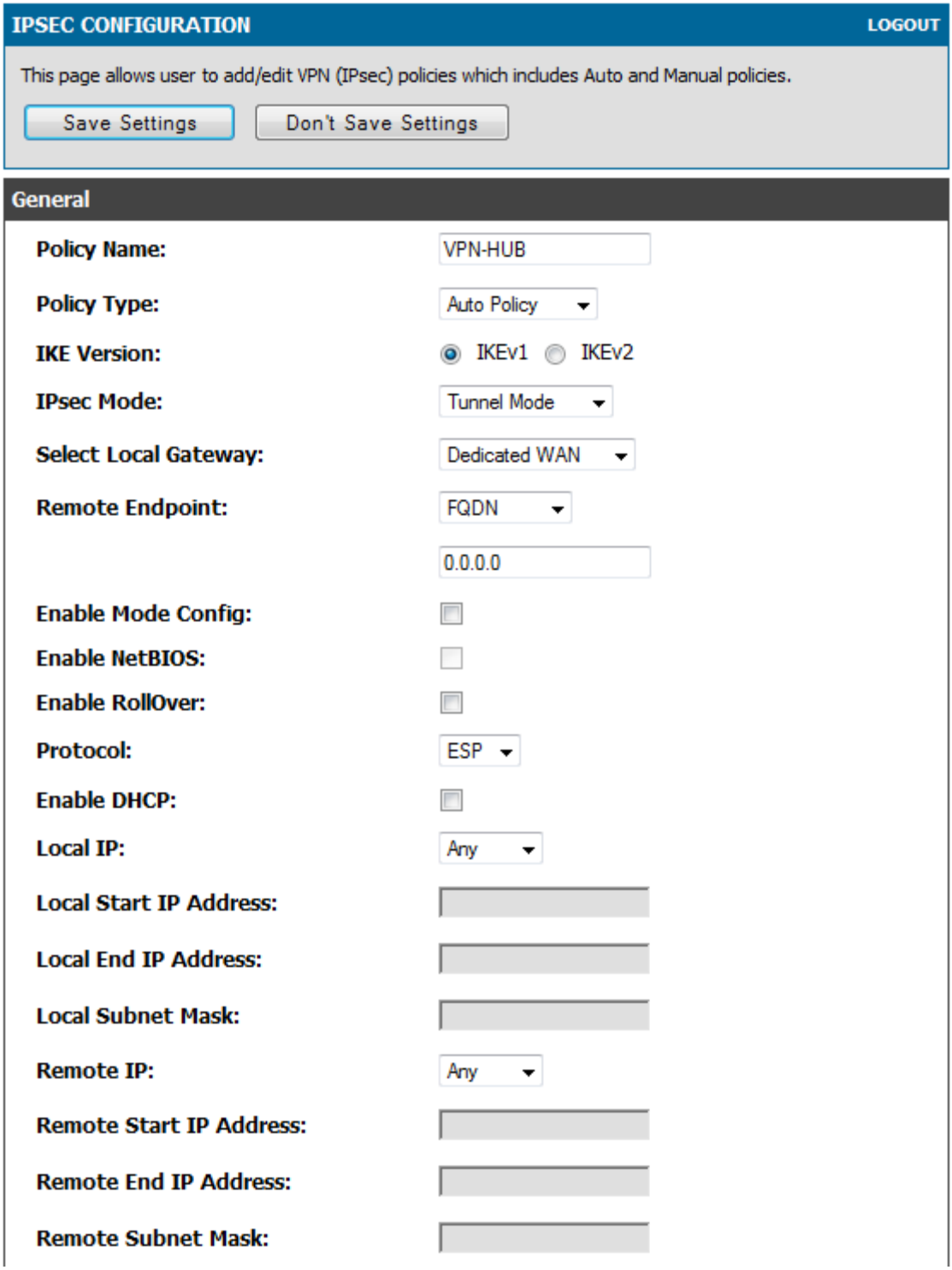
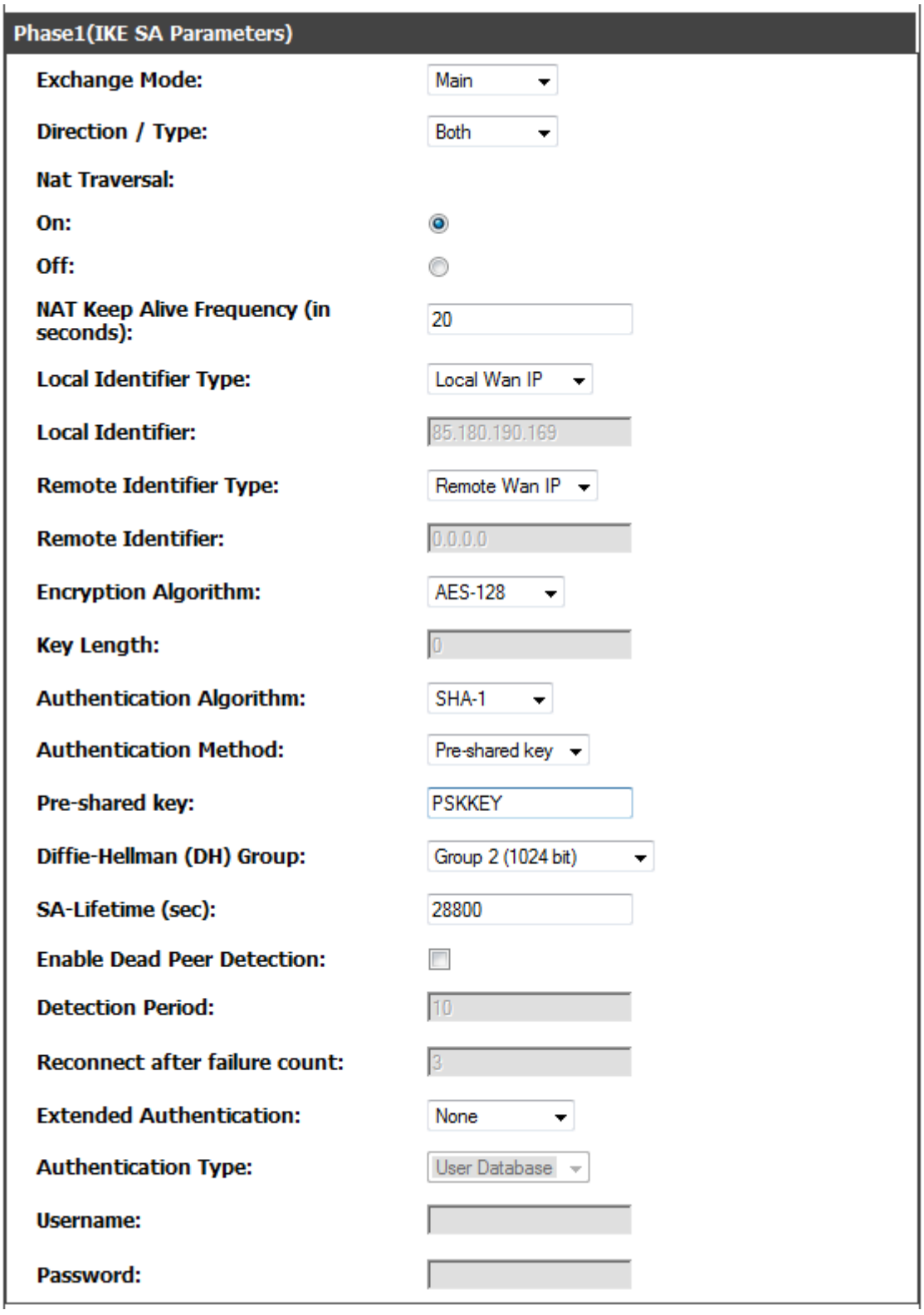
Configuring L2TP/IPSec (PSK) Client with Android/IPHONE/IPAD/Windows device

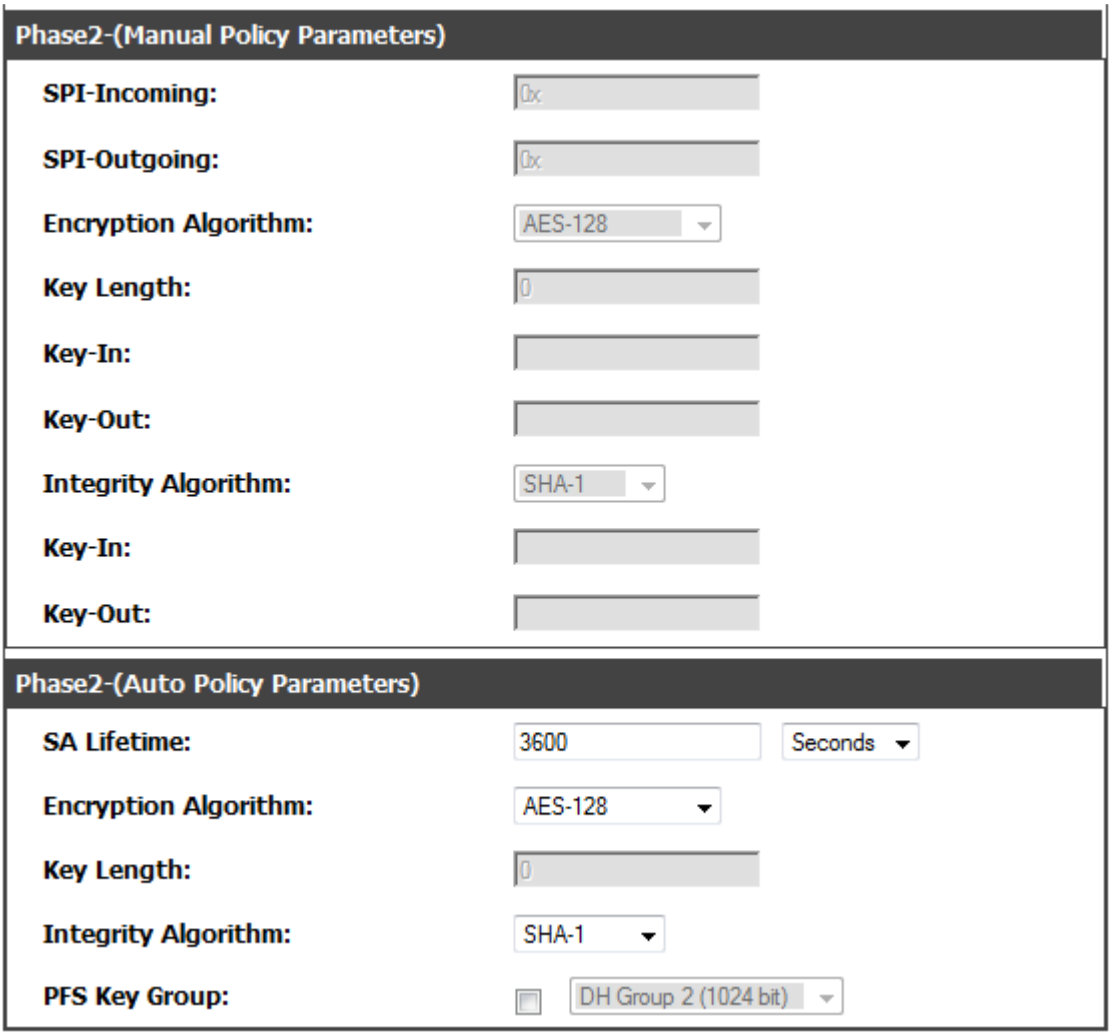


In this scenario we already have an IPSEC VPN (HUB) configured as we already use the HUB-SPOKE VPN connections.

A. IPSEV VPN Rule (for HUB only):




Phase1(IKE SA Parameters)
Exchange Mode:
Main
Direction / Type:
Both
Nat Traversal:
On:
Off:
NAT Keep Alive Frequency (in seconds):
20
Local Identifier Type:
Local Wan IP
Local Identifier:
85.180.190.169
Remote Identifier Type:
Remote Wan IP
Remote Identifier:
0.0.0.0
Encryption Algorithm:
AES-128
Key Length:
0
Authentication Algorithm:
SHA-1
Authentication Method:
Pre-shared key
Pre-shared key:
PSKKEY
Diffie-Hellman (DH) Group:
Group 2 (1024 bit)
SA-Lifetime (sec):
28800
Enable Dead Peer Detection:
Detection Period:
10
Reconnect after failure count:
3
Extended Authentication:
None
Authentication Type:
User Database
Username:
Password:

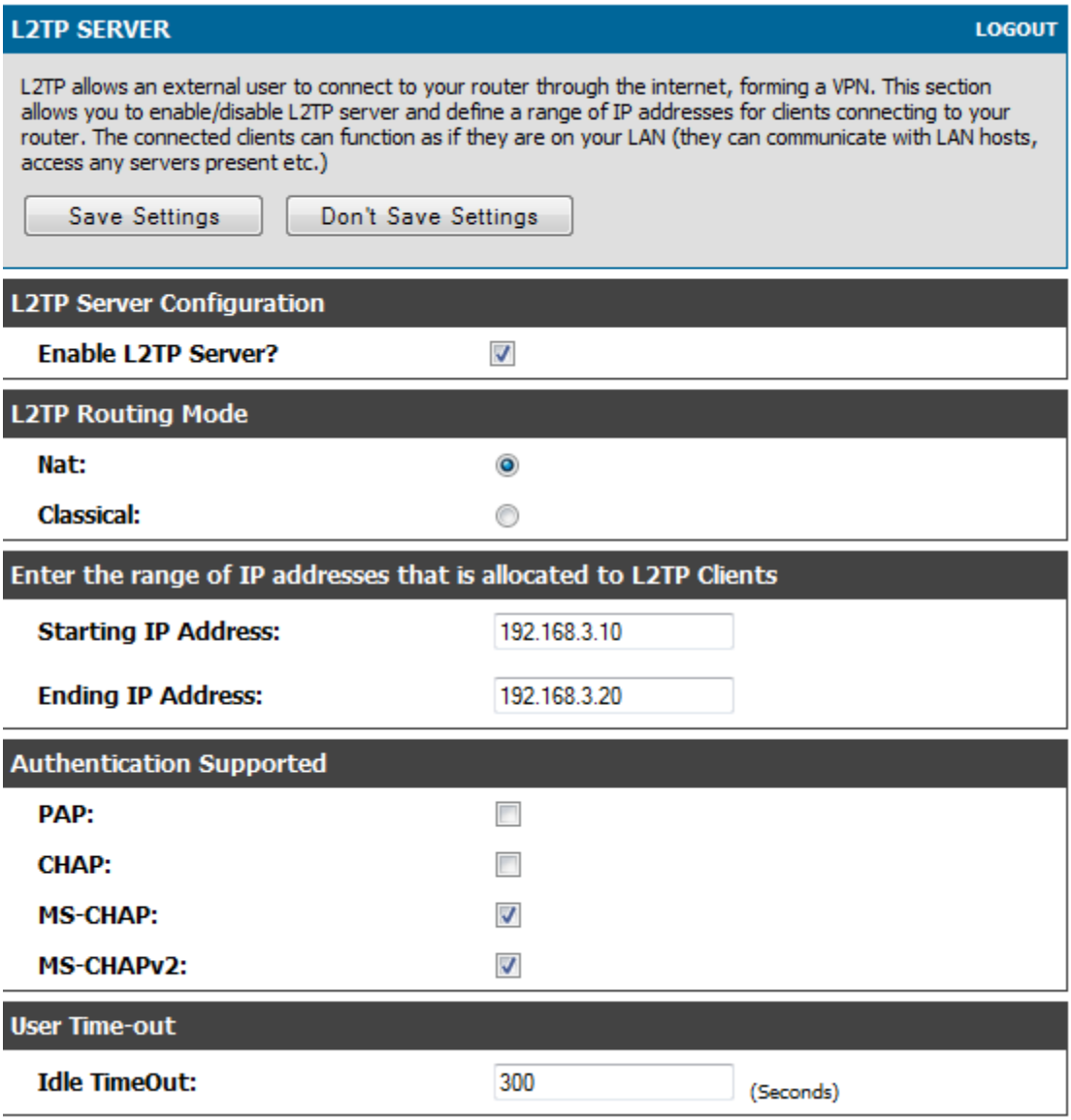


Click "Save Settings" to save your configuration.

If you want to use an IPHONE/IPAD or Windows client to connect via the L2TP/IPSEC you HAVE to change the Encryption Algorithm to 3DES.

B. Configuration to be done in DUT to support L2TP/IPSec Client:

Go to setup--> vpn settings-->L2TP server

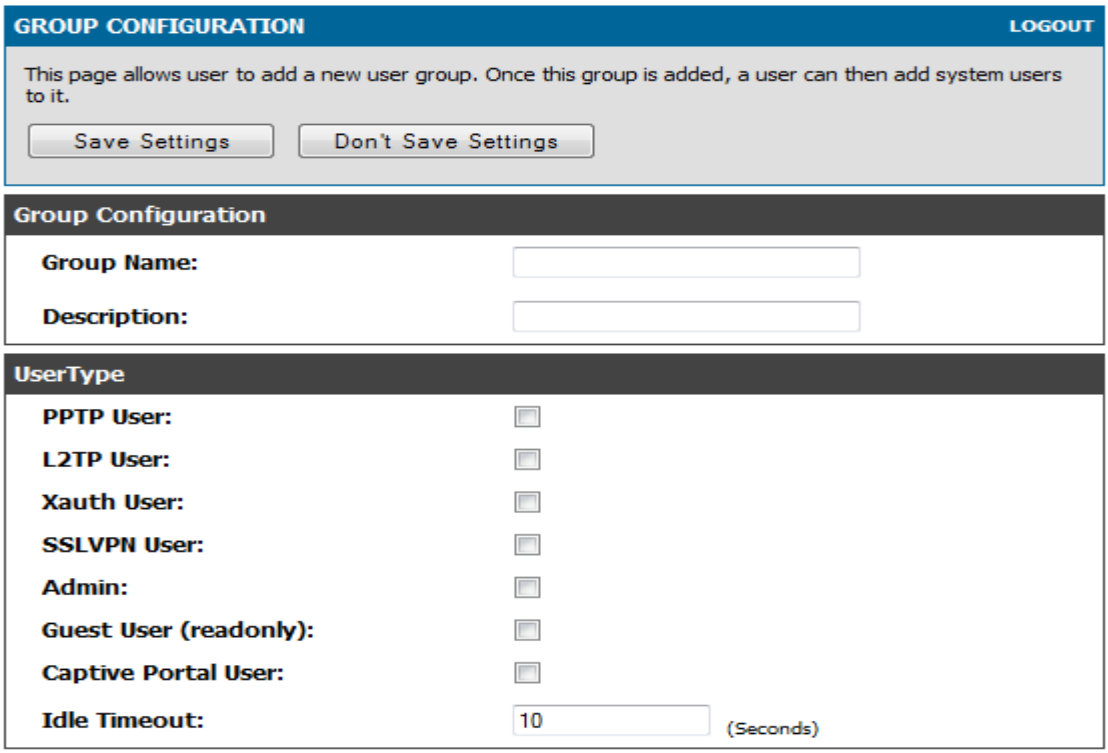


Enabled the server and configured the IP range, e.g.192.168.3.10-20 and choose the Type of routing (standard is NAT). Also choose the available Authentication Method and the user timeout. Click "Save Settings" to save your configuration.

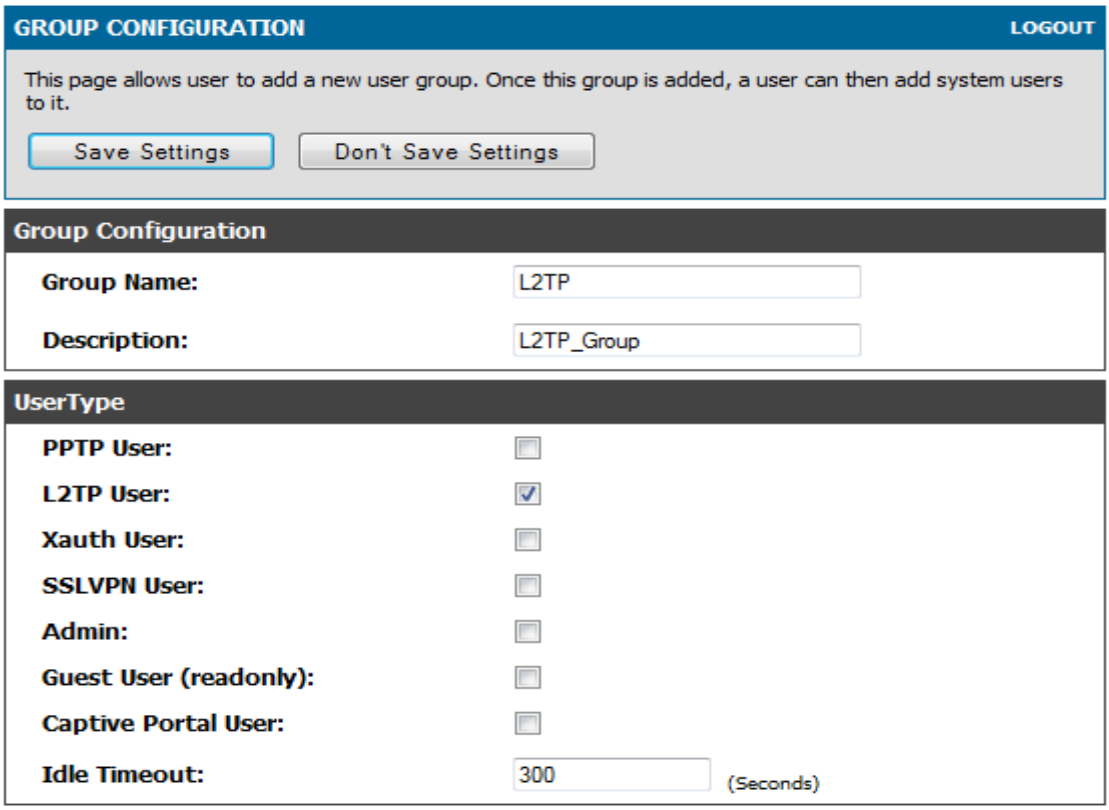
C. Creating L2TP user:

1. Go to Advanced--> Users --> Groups

There you click “ADD” to add a new User Group



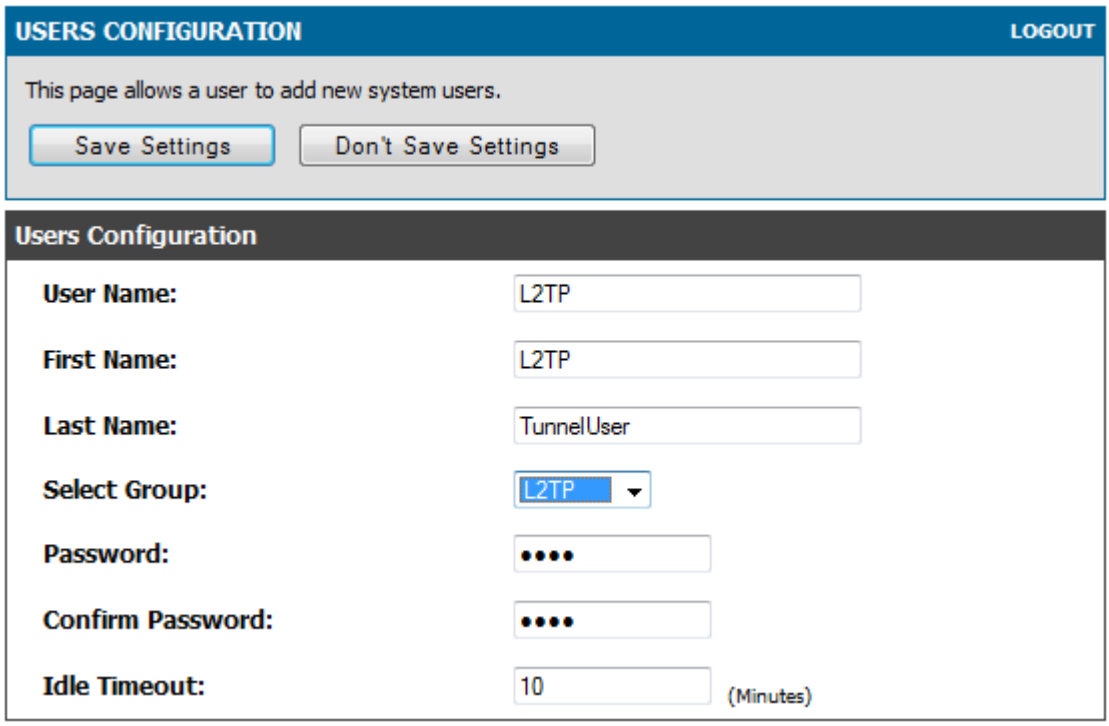
There you create a new “L2TP” user group:



Click "Save Settings" to save your configuration.

2. Go to Advanced--> Users --> Users

There you click "ADD" to add a new User



Define the "Username" *(f.e. L2TP)* and the "Password" *(f.e. L2TP)*, also you need to define the "Idle Timout" *(f.e. 10 minutes)* and which Group his user belongs to (Group means Service, *f.e. L2TP*).

Also you must define the real users First and Family name.

Click "Save Settings" to save your configuration.

D. Now go to Android device and create a L2TP/IPSec PSK-VPN adapter and configure it

1. VPN-Name: Any name
2. VPN-Server: router wan ip (if you're using dyndns you also can type the dyndns address)
3. IPsec Pre-shared key: pre-shared key as configure in client policy in DSR (f.e. PSKKEY)
4. L2TP-Secret activate : uncheck

Save your configuration

5. username: username of l2tp user as configure in DSR device.
6. password: password of l2tp user as configure in DSR device.

E. Now go to IPHONE device and create a L2TP/IPSec PSK-VPN adapter and configure it

1. VPN-Name: Any name
2. VPN-Server: router wan ip (if you're using dyndns you also can type the dyndns address)
3. Account: username of l2tp user as configure in DSR device.
4. RSA-SecureID: OFF
5. Password: password of l2tp user as configure in DSR device
5. Shared Secret: pre-shared key as configure in client policy in DSR (f.e. PSKKEY)
4. All Data : ON

Save your configuration

F. Now go to Windows device and create a L2TP/IPSec PSK-VPN adapter and configure it

1. VPN-Name: Any name
2. VPN-Server: router wan ip (if you're using dyndns you also can type the dyndns address)
3. Account: username of l2tp user as configure in DSR device.
4. Password: password of l2tp user as configure in DSR device
5. VPN-Type: choose L2TP/IPSEC
6. Advanced settings: Shared Secret, pre-shared key as configure in client policy in DSR (f.e. PSKKEY)

Save your configuration

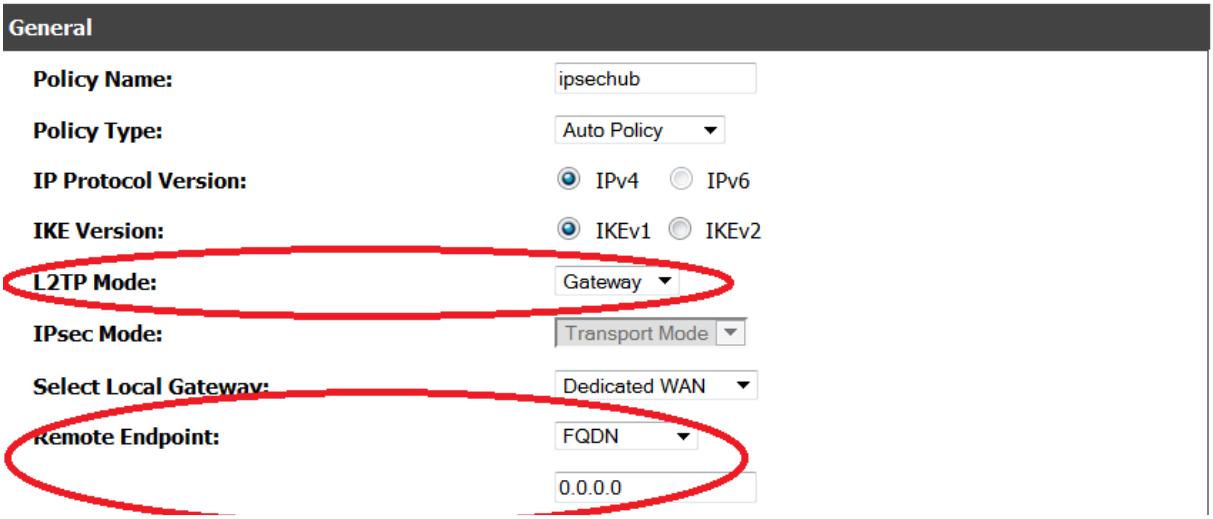
UPDATE with actual Firmware 109B64 and later.

With the latest Firmwares you need to modify the IPSEC settings according to following points to enable Client Access.

⇨ IPSEC Policy add/edit

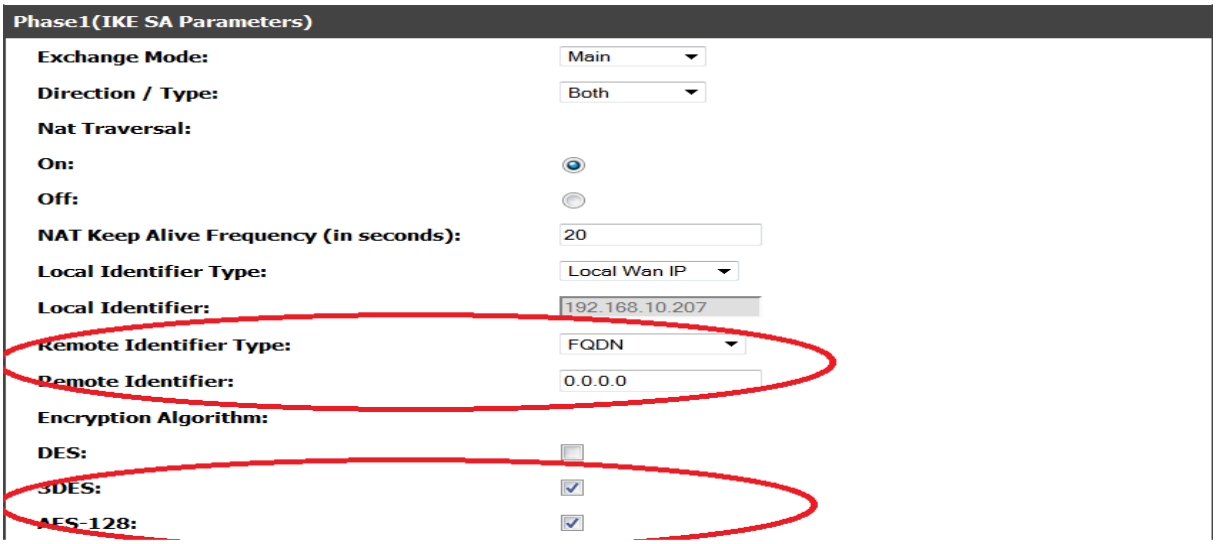
General Settings:

- Name: you can choose free
- Policy Type: keep Auto Policy
- L2TP Mode: set to Gateway
- Remote Endpoint : choose FQDN (full qualified domain name)
  - add in the field "0.0.0.0"

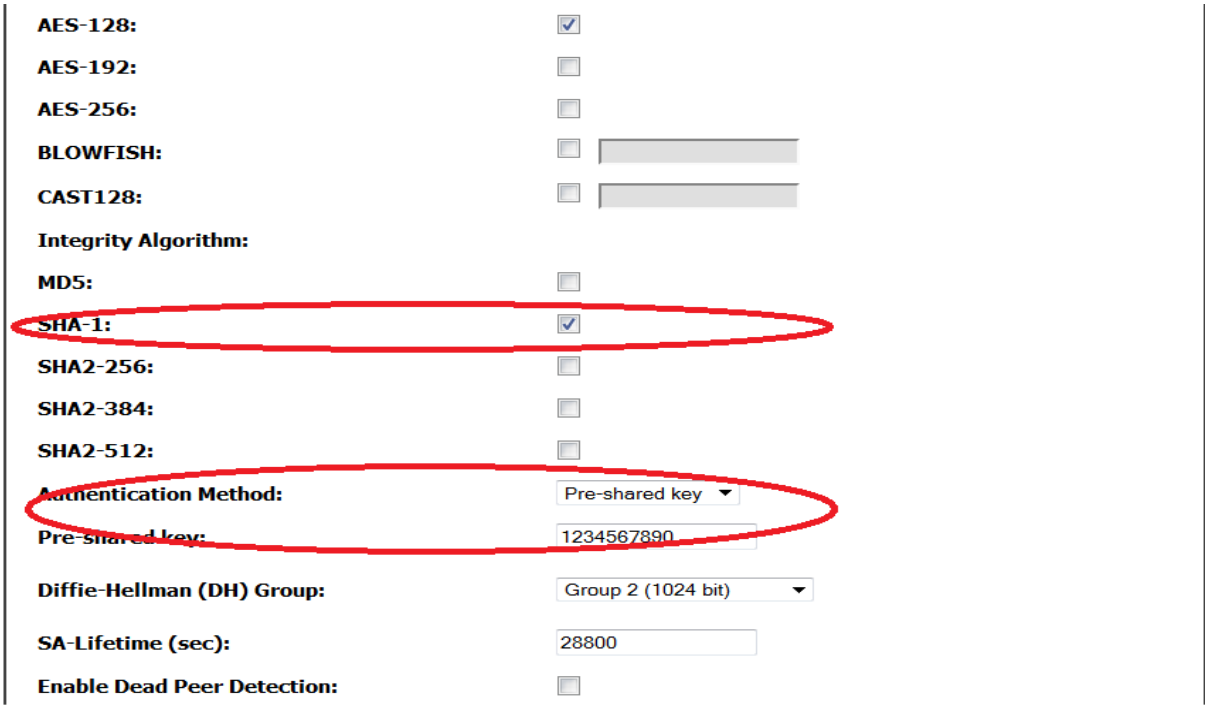


PHASE 1 Settings:

- change Remote Identifier Type to "FQDN"
- change Remote to "0.0.0.0"
- change Encryption Algorithm to:
  - 3DES = Windows Clients/ iOS clients
  - AES128 = Android Clients

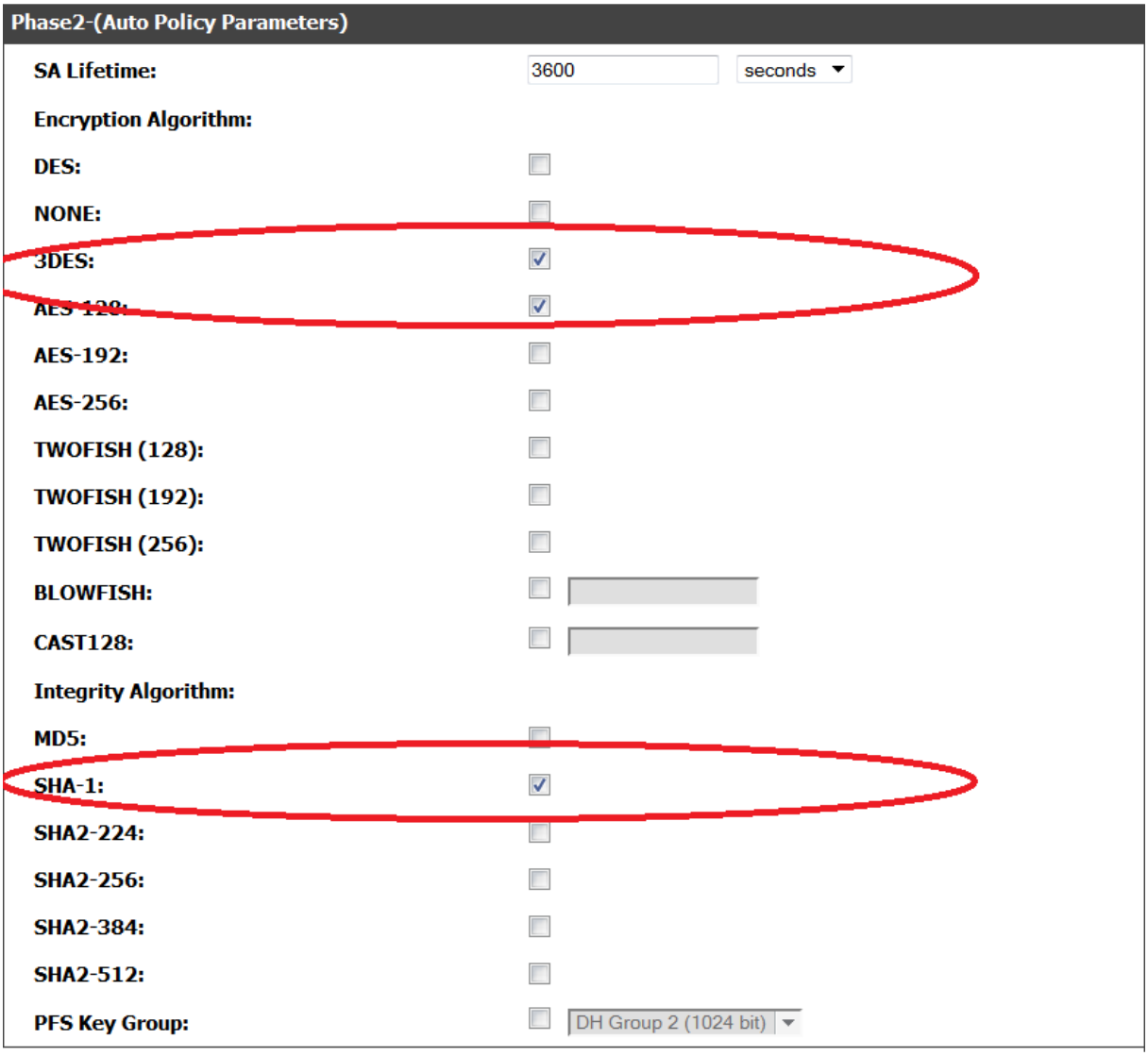


- change "Integrity Algorithm" to:
  - SHA-1 for most common clients
- change Authentication method to:
  - PSK(pre-shared key)
  - Add the Pre-shared Key you want to use for authentication



PHASE 2 Settings:

- change Encryption Algorithm to:
  - 3DES = Windows Clients/ iOS clients
  - AES128 = Android Clients
- change "Integrity Algorithm" to:
  - SHA-1 for most common clients



L2TP Server Settings could look like following screenshot:

- change "Starting IP Address" to the IP Address you want
- change "Ending IP Address" to the IP Address you want
  - **the largest IP Range currently supported is .1 - .26 (as displayed in screenshot below)**
- change "Authentication Supported" to the Method your clients support
  - MS-CHAPv2 most secure and most clients support this