Title/Project	Endian Firewall validation		
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Endian Firewall validation

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REP

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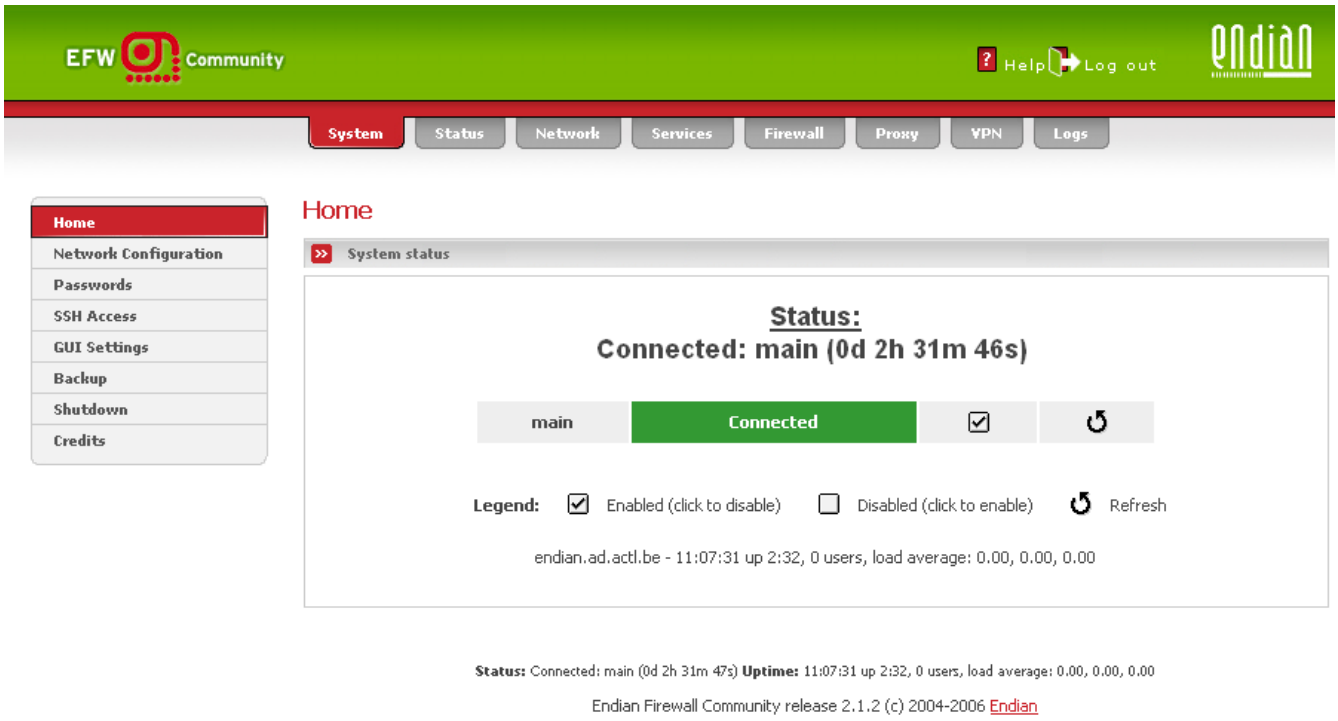
1. VPN Server configuration

The VPN server has 2 interfaces:

Red interface: 10.1.0.120 / 255.255.0.0

Green Interface (on ACT'L LAN): 10.0.100.99 / 255.255.0.0

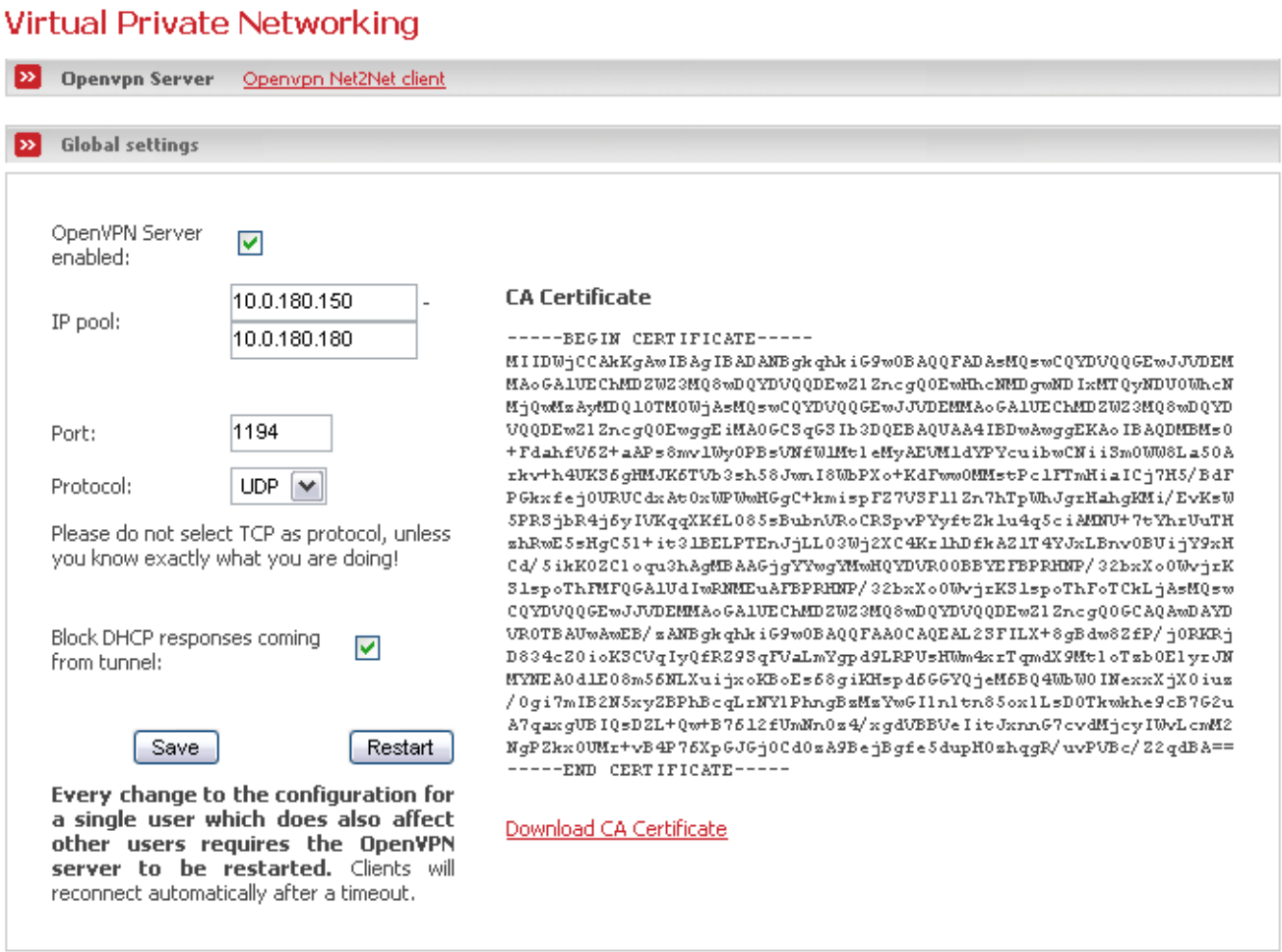
Log on the firewall using the green interface: http://10.0.100.99 (you are redirected on an HTTPS link on the firewall)



Configure the VPN:

1.1. Configure the VPN server

The VPN server is configured with the Global Setting on the VPN server tab:



OpenVPN Server enabled: must be checked

IP Pool: this is a range on the GREEN LAN which is reserved for addressed that will be dedicated to the VPN that will connect.

For example here, the range 10.180.150 to 10.0.180.180 which is in the 10.0.0.0/255.255.0.0 GREEN LAN has been reserved and the OpenVPN server will pick addresses in that range for allocation to the eWON that connect.

Port: The port on which the server will be listening.

Protocol: UDP this is the best port for VPN communication.

Block DHCP responses…: as filter DHCP message coming from eWON (not quite useful)

CA Certificate: it is generated automatically and you will need to copy it in the

eWON configuration.

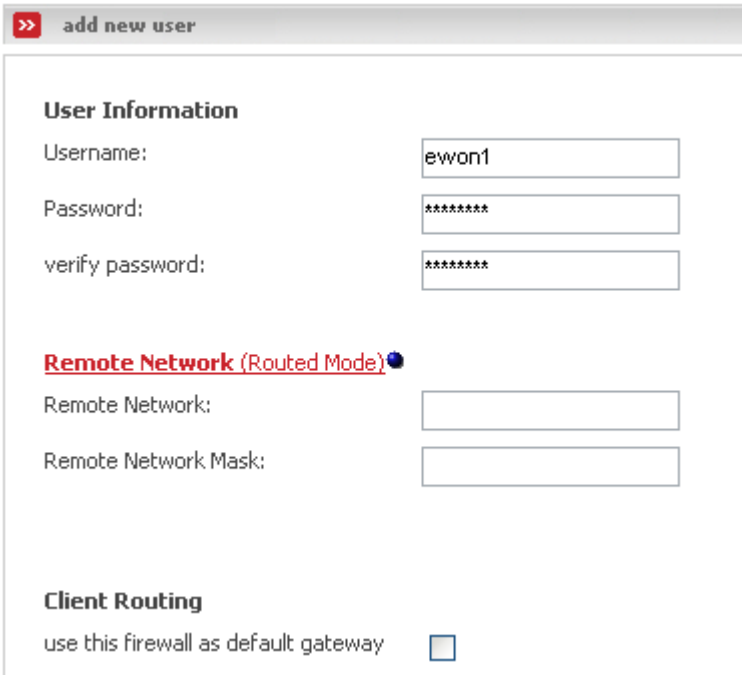
1.2. Add an eWON definition on the server

Each eWON that will be allowed to connect must be defined on the server.

An eWON will be identified by its **username** and its **password**.

Use the "Add account" to add an eWON:

The eWON configuration page looks like this:

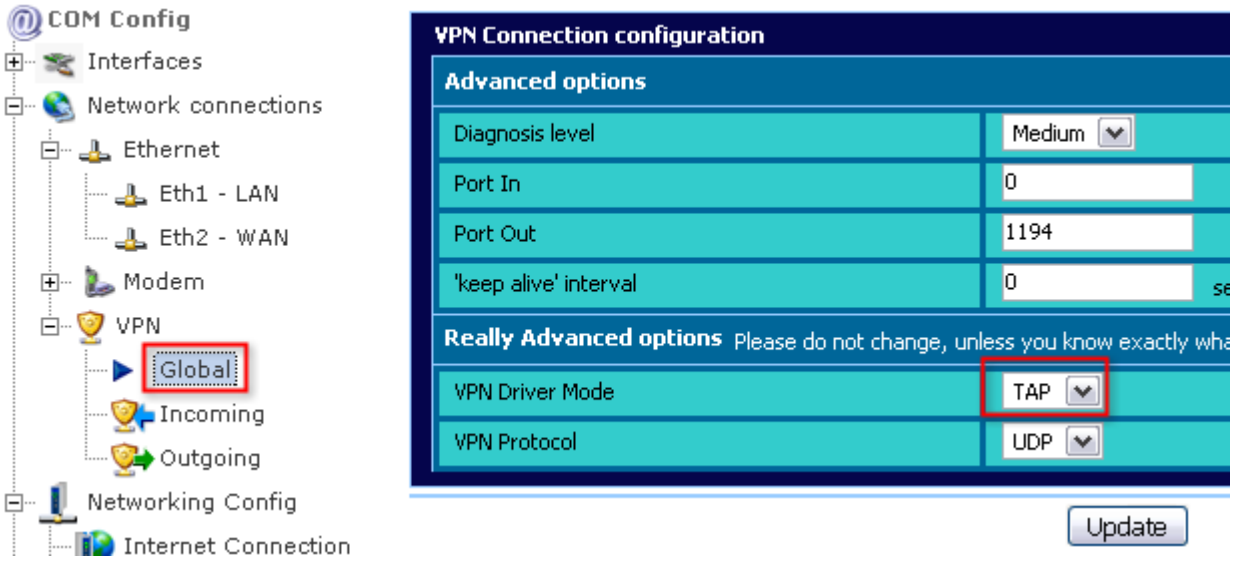


Username: the username the eWON will use to identify on the server (*ewon1* is used as example).

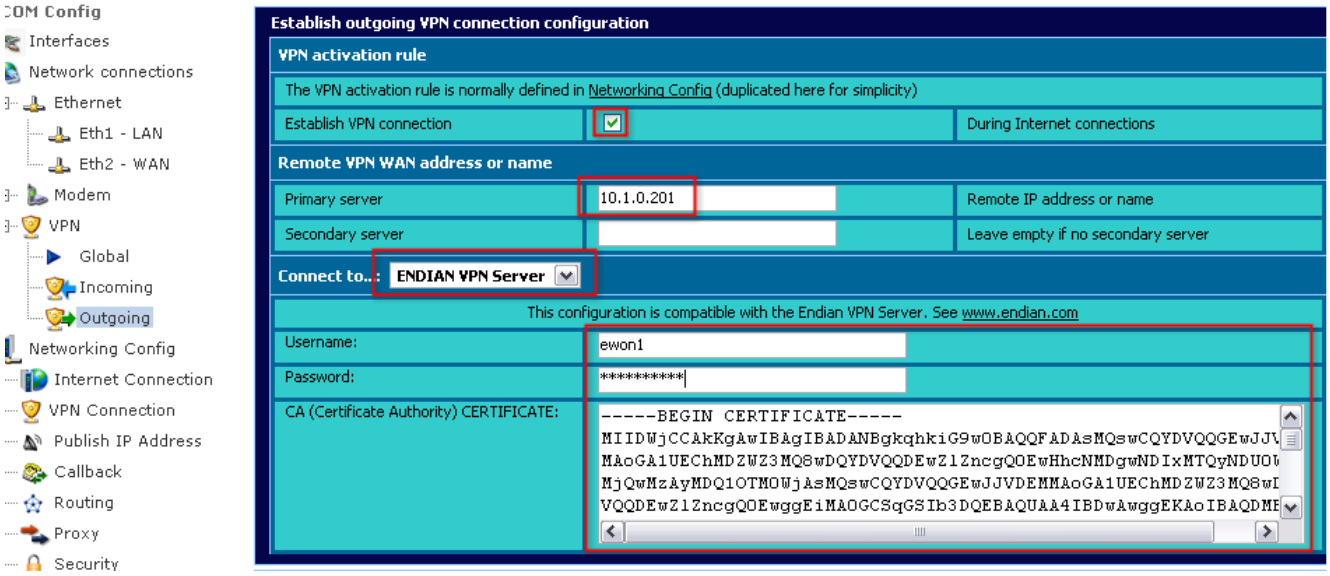
Password: The password that will allow the eWON to connect to the VPN (*mypassword* is used as example)

2. eWON configuration

The eWON configuration corresponding to the server is:



On the Global VPN config, the TAP mode must be selected.



Establish VPN connection: must be selected

Primary Server: this is the RED IP address of the server (or Internet accessible RED IP address).

Connect to...: Select ENDIAN VPN Server

Username: This is the eWON identification, in this example *ewon1*.

Password: The password to log on the VPN server, in this example *mypassword*

CA (Certificate Authority) CERTIFICATE: You must copy here the CA Certificated from the ENDIAN VPN configuration.

CA Certificate


```
-----BEGIN CERTIFICATE-----
MIIDWjCCAkKgAwIBAgIBADANBgkqhkiG9w0BAQQFADAsMQswCQYDVQQGEwJJVDEM
MAoGA1UEChMDZWZ3MQ8wDQYDVQQDEw21ZncgQ0EwHhcNMDgwNDIxMTQyNDU0WhcN
MjQwMzAyMDQ10TM0WjAsMQswCQYDVQQGEwJJVDEMMAoGA1UEChMDZWZ3MQ8wDQYD
VQQDEw21ZncgQ0EwggEiMA0GCSqGSIb3DQEBAQUAA4IBDwAwggEKAoIBAQDMBMz0
+FdahfV6Z+aAPz8mvlWy0PBsWNfWlMtleMyAEVMldYPYcuibwCNiiSm0WW8La50A
rkv+h4UKS6gHMJK6TVb3sh58JwnI8WbPXo+KdFwo0MMstPclFTmHiaICj7H5/BdF
PGkxfej0URUCdxAt0xWPWwHGgC+kmispF27USFll2n7hTpWhJgrHahgKMi/EvKsW
5PR3jbR4j6yIVKqqXKfL085sBubnVRoCR3pvPYyft2klu4q5ciAMNV+7tYhrUuTH
zhRwE5sHgC51+it31BELPTEnJjLL03Wj2XC4KrlhDfkA21T4YJxLBnv0BUijY9xH
Cd/5ikK0ZCloqu3hAgMBAAGjgYYwgYMwHQYDVR00BBYEFBPRHNP/32bxXo0WvjrK
SlspoThFMFQGA1UdIwRNMEuAFBPRHNP/32bxXo0WvjrKSlspoThFoTCkLjAsMQsw
CQYDVQQGEwJJVDEMMAoGA1UEChMDZWZ3MQ8wDQYDVQQDEw21ZncgQ0GCAQAwDAYD
VR0TBAUwAwEB/zANBgkqhkiG9w0BAQQFAA0CAQEAL2SFILX+8gBdw8ZfP/j0RKRj
D834cZ0ioKSCUqIyQfRZ9SqFVaLmYgpd9LRPUsHUm4xrTqmdX9MtloTzb0E1yrJN
MYNEA0dlE08m56NLXuijxoKBoEs68giKHspd6GGYQjeM6BQ4WbW0INexxXjX0iuz
/0gi7mIB2N5xyZBPhBcqLrNYlPhngBzMzYwGIlnltn85oxlLsD0Tkwkhe9cB7G2u
A7qaxgUBIQsDZL+Qw+B76l2fUmNn0z4/xgdUBBVeIitJknnG7cvdMjcyIWvLcmM2
NgPZkx0UMr+vB4P76XpGJGj0Cd0zA9BejBgfe5dupH0zhqgR/uvPUBc/22qdBA==
-----END CERTIFICATE-----
```


Download CA Certificate

3. Check the connection status

On the bottom of the VPN configuration page on the VPN server, you have a list of eWON connected, with some additional informations.

Connection status and control

User	Assigned IP	Real IP	RX	TX	Connected since	Uptime	Actions	
ewon1	10.0.180.151	10.1.100.153:34079	1.5 KiB	3.8 KiB	Fri Apr 25 11:21:09 2008	6s	kill	ban

We can see here that the VPN IP allocated to the eWON is **10.0.180.151**

This can also be checked from the eWON status page:

Status | Scheduled Actions | Rea

Status	
Description	Value
PPP allocated IP address	0.0.0.0
Current IP transparent forward address	0.0.0.0
VPN allocated IP address	10.0.180.151
PPP accumulated incoming traffic	0
PPP accumulated outgoing traffic	0

4. Network topology

The Network configuration on the server side is “Bridged” this means that the eWON appears really as if it was on the GREEN LAN. If a PC from the LAN needs to access the eWON, it must have the ENDIAN Firewall/Server as gateway. Doing that will allow the PC to communicate with any eWON.