Level1 router IPSec VPN vs. FreesWan

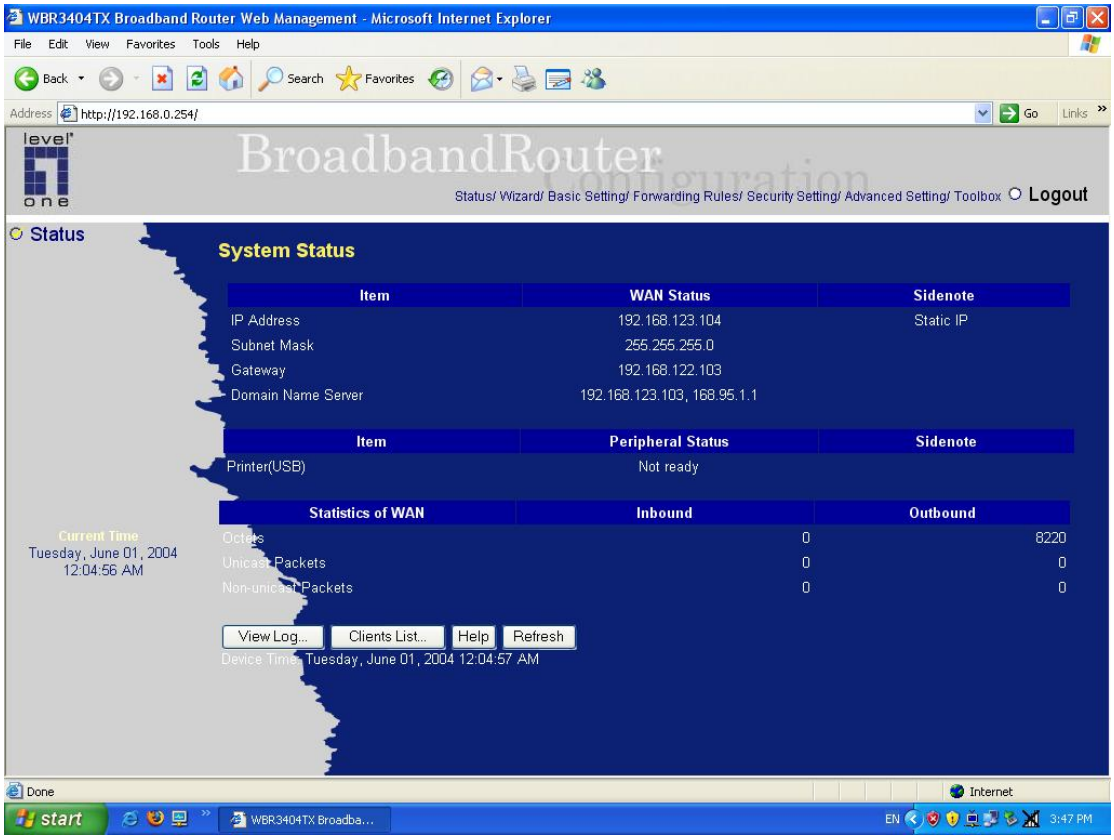
Level1 router is applicable to FBR-1407, FBR-1409TX, FBR-1417TX, WBR-2401, WBR-3403TX, WBR-3404TX and WBR-3402

192.168.0.x---LevelOne VPN router---Linux with FreesWan---192.168.111.x

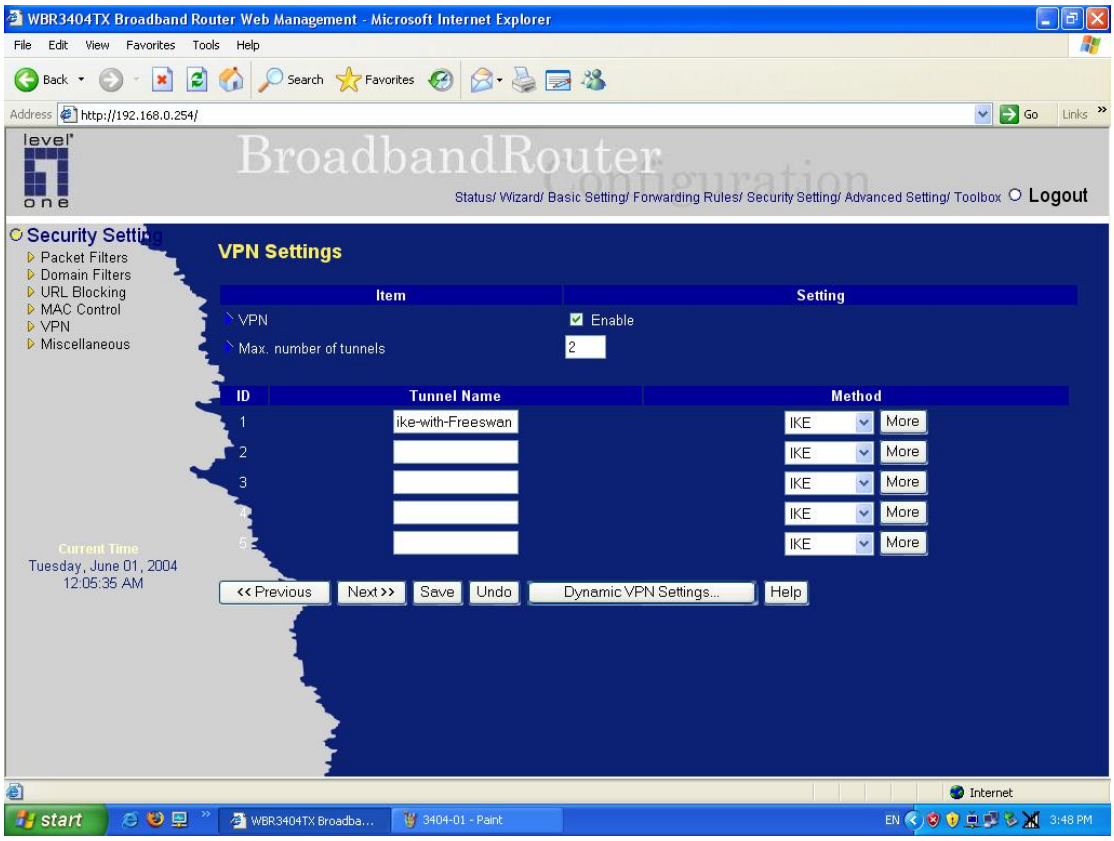
LevelOne Router LAN IP :192.168.0.1 WAN IP :192.168.123.104

Linux FreesWan internal IP:192.168.111.1 external IP:192.168.123.103

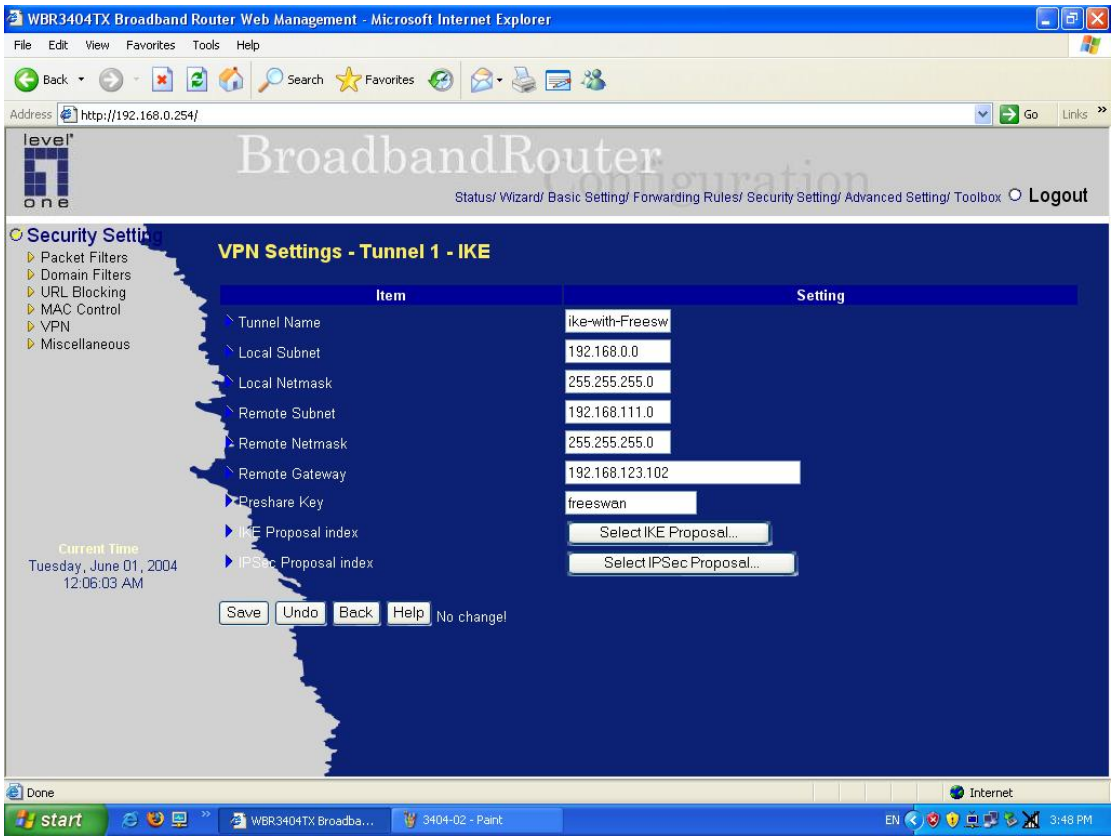
LevelOne router status:



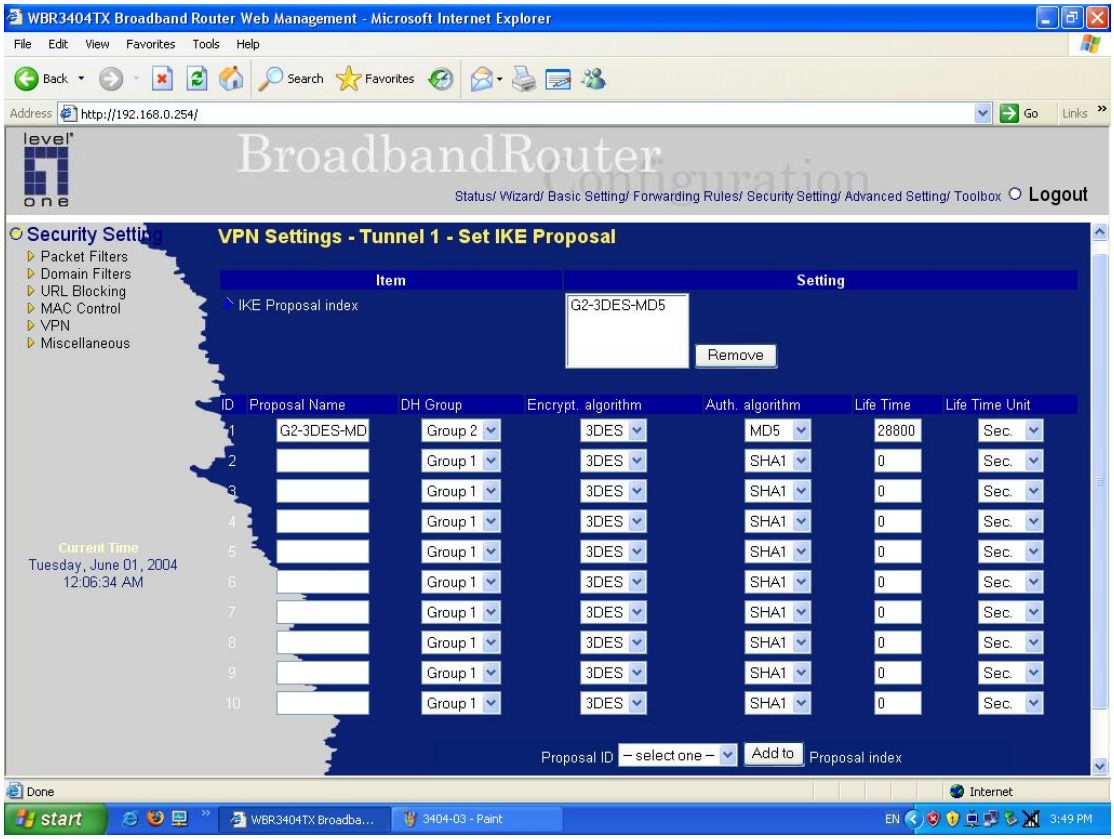
1. enabled VPN and set Max.number of tunnel.
2. enter Tunnel name and press “More” button.



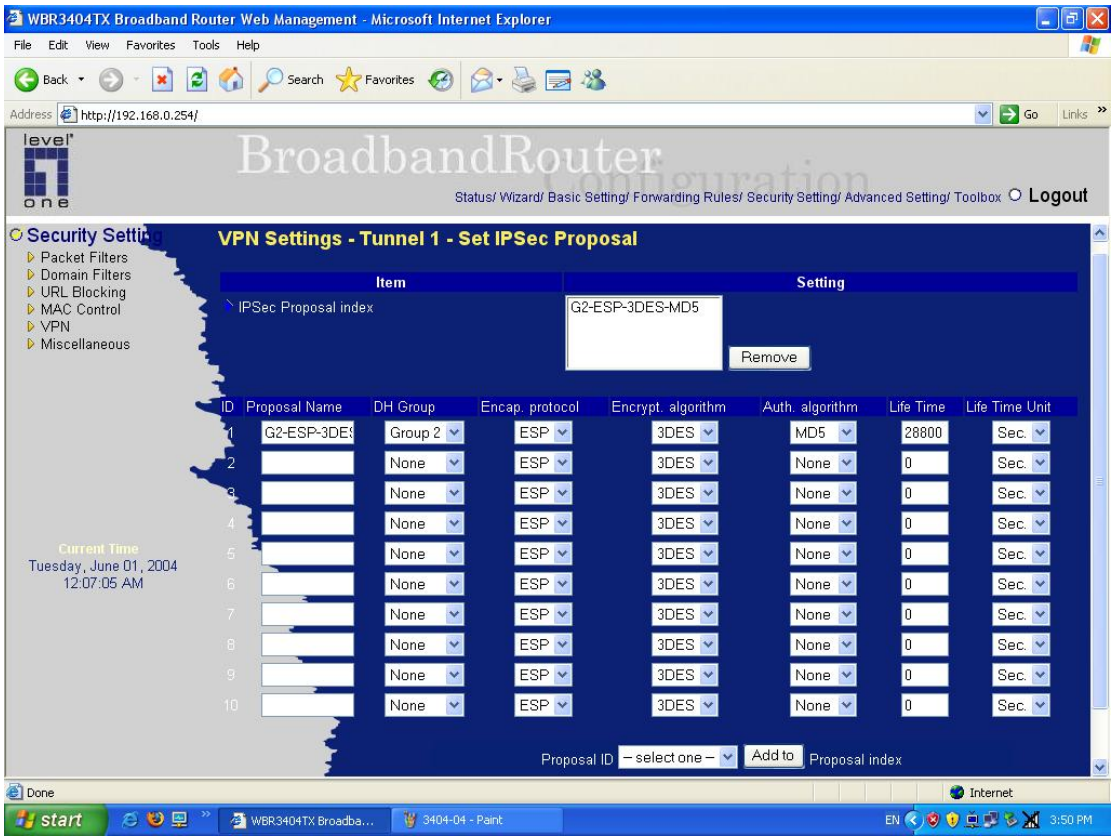
3.Set the VPN setting as follow picture.



4.Set the IKE Proposal as below.



5.set IPSec Proposal as below.



Configuration for Freeswan as below:

```
#########################################################################
#################################################
/etc/ipsec.conf
# /etc/ipsec.conf - FreeS/WAN IPsec configuration file

# More elaborate and more varied sample configurations can be found
# in FreeS/WAN's doc/examples file, and in the HTML documentation.

# basic configuration
config setup
        # THIS SETTING MUST BE CORRECT or almost nothing will work;
        # %defaultroute is okay for most simple cases.
        interfaces=%defaultroute
        # Debug-logging controls:   "none" for (almost) none, "all" for lots.
        klipsdebug=none
        plutodebug=none
        # Use auto= parameters in conn descriptions to control startup actions.
        plutoload=%search
        plutostart=%search
        # Close down old connection when new one using same ID shows up.
        uniqueids=yes

# defaults for subsequent connection descriptions
# (these defaults will soon go away)
conn %default
        keyingtries=0
        disablearrivalcheck=no
        #authby=rsasig
        #authby=secret
        #leftrsasigkey=%dnsondemand
        #rightrsasigkey=%dnsondemand

conn ike-with-DDC3404TX-esp-3des-md5
```

```
        left=192.168.123.104
        leftsubnet=192.168.0.0/24
        leftnexthop=192.168.123.103
        right=192.168.123.102
        rightsubnet=192.168.111.0/24
        rightnexthop=192.168.123.103
        authby=secret
        pfs=yes
        auto=add
##########################################################################
#################################################

[root@earth]# ipsec auto --up ike-with-DDC3404TX-esp-3des-md5
104 "ike-with-DDC3404TX-esp-3des-md5" #1: STATE_MAIN_I1: initiate
106 "ike-with-DDC3404TX-esp-3des-md5" #1: STATE_MAIN_I2: sent MI2,
expecting MR2
108 "ike-with-DDC3404TX-esp-3des-md5" #1: STATE_MAIN_I3: sent MI3,
expecting MR3
004 "ike-with-DDC3404TX-esp-3des-md5" #1: STATE_MAIN_I4: ISAKMP SA
established
117 "ike-with-DDC3404TX-esp-3des-md5" #2: STATE_QUICK_I1: initiate
004 "ike-with-DDC3404TX-esp-3des-md5" #2: STATE_QUICK_I2: sent QI2, IPsec
SA established

##########################################################################
#################################################
```

Please edit “ipsec.secrets: file of freeswan for Pre-share Key setting as same as LevelOne router.