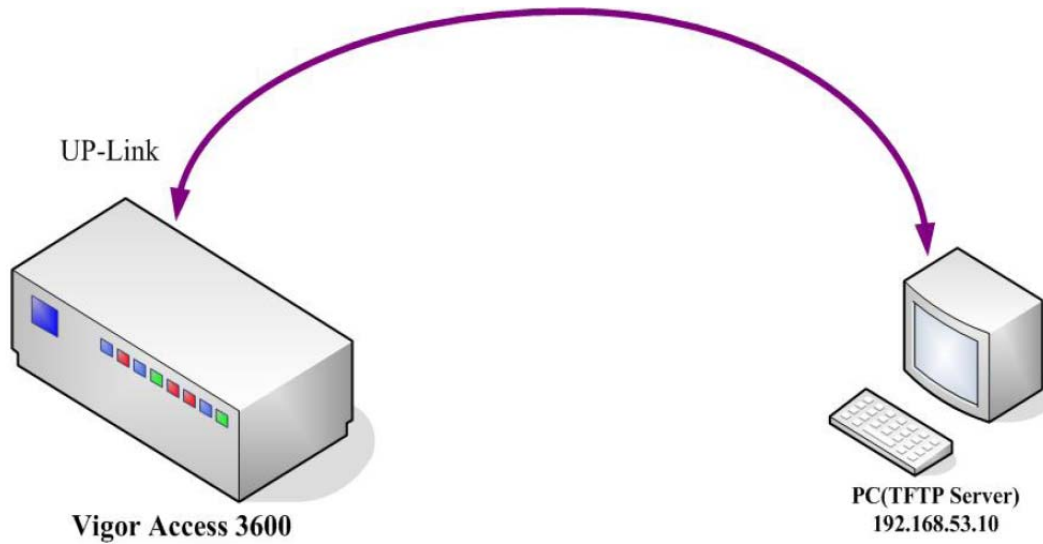# How to Upgrade .all Firmware
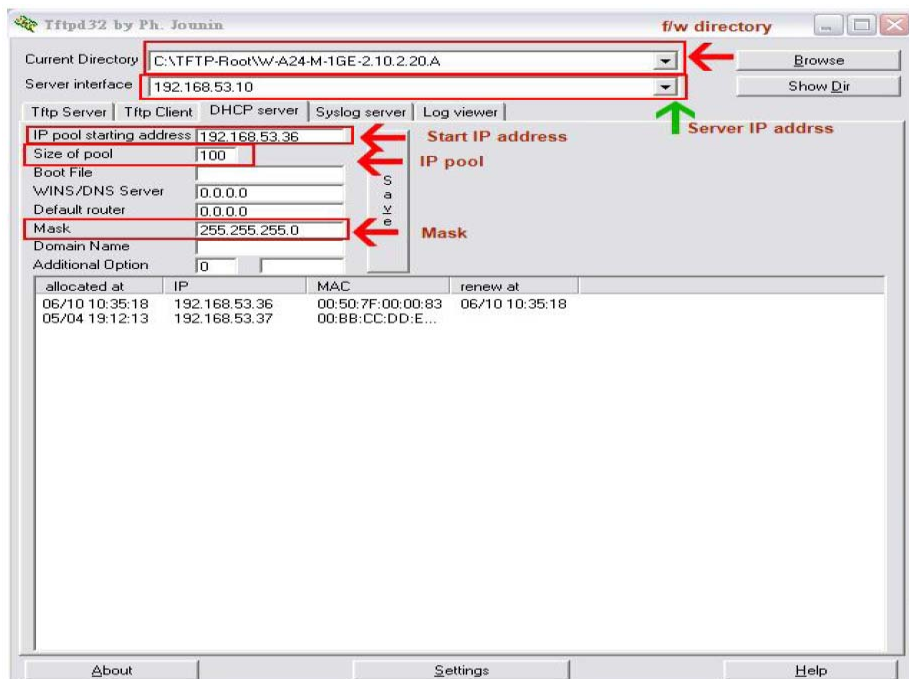
This guide will tell you how can you upgrade the ".all" firmware for the DSLAM.

1. Place the firmware file to a designated folder.

2. Run TFTP232 Server sfotware and set the network setting.

3. Check the Firmware version.

```
$get system info

Description        : IP DSLAM
Name               :
Location           :
Contact            :
Vendor             :
LogThreshold       : 0
Object-id          : 1.3.6.1.4.1.7367.2.11.1
Up Time(HH:MM:SS)  : 0:1:58
HwVersion          : 1.2
CPSwVersion        : W-A24-M-1GE-2.10.2.20      ←← Firmware version
DPSwVersion        : DP_B02_10_14_60_ip1000a
System Time        : Thu Jan 01 00:01:58 1970
Time Zone          : GMT
DST                : off
Services           : physical datalink internet end-to-end applications
```

4. Check IP address.

```
$get ip address
Ip Address      Mask            IfName     BCast Addr MaxReasm
--------------------------------------------------------------
10.0.1.2        255.255.255.240 eth-0       1        65535
127.0.0.1       255.0.0.0       -           1        65535
```

5. Set IP address.

```
(ipconfig  <ip>  <mask>)

$ipconfig 192.168.53.36 255.255.255.0
Set Done
```

6. Save the settings.

```
$commit

Block 29 erase in progress
.......Flash block 29 erase successful...

FLASH program starts at ADDR 3bfffc

 FLASH program starts at ADDR 380004

Set Done
```

7. Check TFTP32 Server connection status.

```
$ping 192.168.53.10

64 bytes of data from 192.168.53.10, seq=0 ttl=128 rtt =30 msec
64 bytes of data from 192.168.53.10, seq=1 ttl=128 rtt =10 msec
64 bytes of data from 192.168.53.10, seq=2 ttl=128 rtt =10 msec
64 bytes of data from 192.168.53.10, seq=3 ttl=128 rtt =10 msec
------------------- Ping Statistics -------------------
4 packets transmitted, 4 packets received, 0 percent packet loss
```

8. Upgrade the firmware.

    <firmware upgrade -<all filename>   all   <Server ip> >

```
$firmware upgrade -DSL-W-A24-M-1GE-2.10.2.20.A.all all 192.168.53.10
Src: DSL-W-A24-M-1GE-2.10.2.20.A.all, Dest: AllImage,  Server: 192.168.53.10
$Downloading the File...
..........................................................
..........................................................
..........................................................
..........................................................
..........................................................
..........................................................
..........................................................
..........................................................
..........................................................
..........................................................
Download session Completed,Bytes received 2898665...

Start upgrading...

ul...

FLASH program starts at ADDR 100000
###############
Block 9 erase in progress
.......Flash block 9 erase successful...

###############
Firmware upgrade SUCCESSFULLY!
```

9. Reboot the DSLAM.

```
$reboot

Rebooting........?
                 *****************
                 IP DSLAM BootStrap
                 *****************


Initializing Columbia Memories............. Success
Press F1 to enter Interactive Mode, 'Enter' to skip .... 5 seconds left
Transfering Control to BootTftp binary

Flash Present In System.......
.............................
All the files are in Flash, No TFTP required
Mxu shall come up in normal mode
All the files have been successfully received.....
Active copy of Ctrl Plane Bin was found in flash
Unzipping the Control
Plane.................................................................
....................
.....................................................................
.......................................
Transferring Control to Ctrl Plane Binary...
```

10. Check the firmware version again.

```
$get system info

Description        : IP DSLAM
Name               :
Location           :
Contact            :
Vendor             :
LogThreshold       : 0
Object-id          : 1.3.6.1.4.1.7367.2.11.1
Up Time(HH:MM:SS)  : 0:1:12
HwVersion          : 1.2
CPSwVersion        : W-A24-M-1GE-2.10.2.20.A
DPSwVersion        : DP_B02_10_14_60_ip1000a
System Time        : Thu Jan 01 00:01:12 1970
Time Zone          : GMT
DST                : off
Services           : physical datalink internet end-to-end  applications
$
```

(If the firmware version is not correct, please do Step 5~10 again.)