

How to upgrade firmware by FTP?

1. Download the firmware (.bin file) to root c:\ (do not change file name) at your remote PC. Open Windows command(CMD) to firmware upgrade.

In our example, AP's IP is 192.168.1.80, please replace the IP in the commands to your AP's IP address.

2. Use ping command to ping AP for checking connection.

ping 192.168.1.80

```
Pinging 192.168.1.80 with 32 bytes of data:
Reply from 192.168.1.80: bytes=32 time=1ms TTL=63
Reply from 192.168.1.80: bytes=32 time=1ms TTL=63
Reply from 192.168.1.80: bytes=32 time=1ms TTL=63
Reply from 192.168.1.80: bytes=32 time=1ms TTL=63
```

3. In the Windows command prompt, type ftp 192.168.1.80.

```
C:\Users>ftp 192.168.1.80
Connected to 192.168.1.80.
220-
220-You are user number 1 of 5 allowed.
220-Local time is now 05:00. Server port: 21.
220-This is a private system - No anonymous login
220-IPv6 connections are also welcome on this server.
220 You will be disconnected after 600 minutes of inactivity.
```

4. Enter your user and password as requested. The user name: admin and password at Nebula: Site-wide > Configure > General settings > Local credentials

Device configuration

Local credentials

Username: admin (Firewall username is "support")

Password:

```
User (192.168.1.80:(none)): admin
331 User admin OK. Password required
Password: 
230 OK. Current restricted directory is /
ftp>
```

5. Enter "bin" to set the transfer mode to binary.

```
ftp> bin
200 TYPE is now 8-bit binary
```

6. Enter `put c:\ <firmware file name>`, wait for the file transmit once it finished, the message Transfer complete shows.

```
ftp> put C:\WAX510D-610P10-DF-20210331
200 PORT command successful
150 Connecting to port 65031
226-File successfully transferred
226-0.802 seconds (measured here), 49.47 Mbytes per second
226-firmware verifying...
226-firmware updating...
226-Please Wait about 5 minutes!!
226-Do not poweroff or reset,
226-system will reboot automatically after finished updating.
226 226 Transfer complete.
ftp: 41599378 bytes sent in 0.79Seconds 52392.16Kbytes/sec.
```

7. Enter `"quit"` to exit the ftp prompt.
8. AP will start to upgrade FW with flashing red LED, please **DO NOT** power off AP.
9. After you finished the firmware upgrade, the AP will connect to NCC automatically, please make sure AP can access internet, then it shall become on-line status, then it will perform firmware upgrade to latest official firmware automatically, this will take 4~10 minutes depends on different access point models.