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## Firmware Upgrading Procedure

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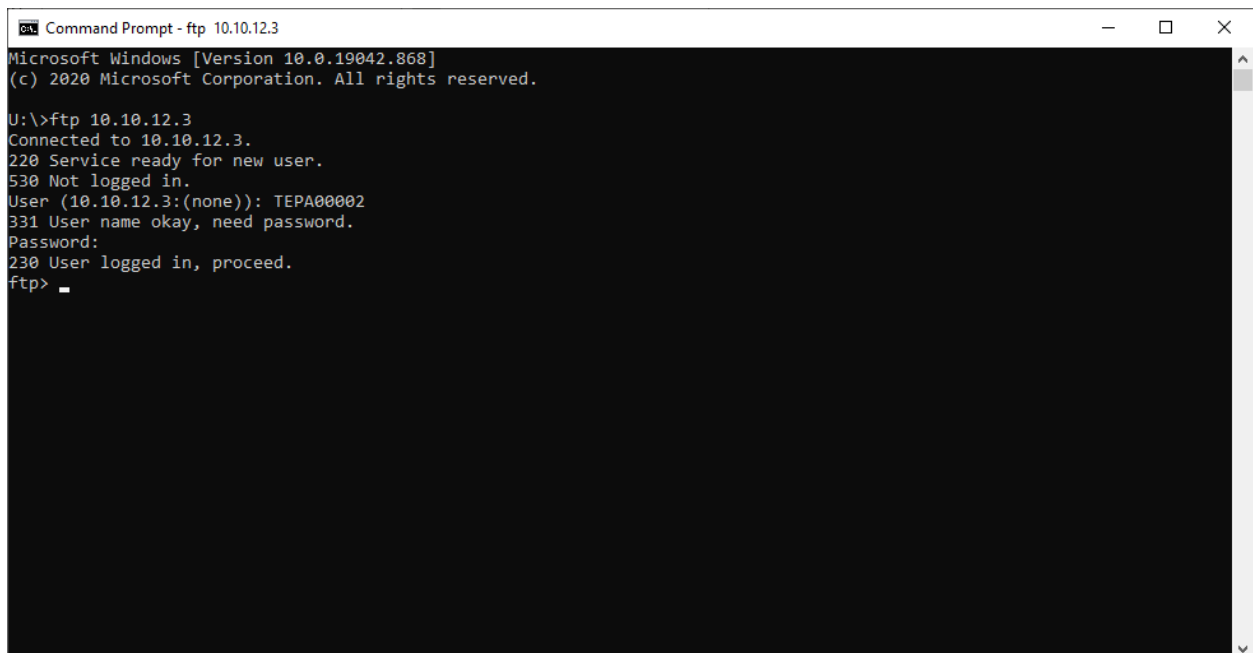
### Introduction

This package is designed for PAAs with serial numbers beginning with TEPA. It will NOT work with any other product and will cause the product to become inoperable. The firmware may be upgraded using the utility ArmUpdDownloader.exe or FTP. The preferred method is by using the ArmUpdDownloader.exe utility. The upgrade package filename is paa\_arm\_fwUpgradeVxx\_yy.zip. XX can be 0 to 99 and YY can be 00 to 99. Unzip the file into a directory of your choice.

### Upgrading via FTP

The PAA contains a rudimentary FTP server that allows upload and download procedures. The firmware has been tested with the Windows operating system FTP client.

Open a command prompt and navigate to the directory you unzipped the upgrade package to.



```
Command Prompt - ftp 10.10.12.3
Microsoft Windows [Version 10.0.19042.868]
(c) 2020 Microsoft Corporation. All rights reserved.

U:\>ftp 10.10.12.3
Connected to 10.10.12.3.
220 Service ready for new user.
530 Not logged in.
User (10.10.12.3:(none)): TEPA00002
331 User name okay, need password.
Password:
230 User logged in, proceed.
ftp>
```

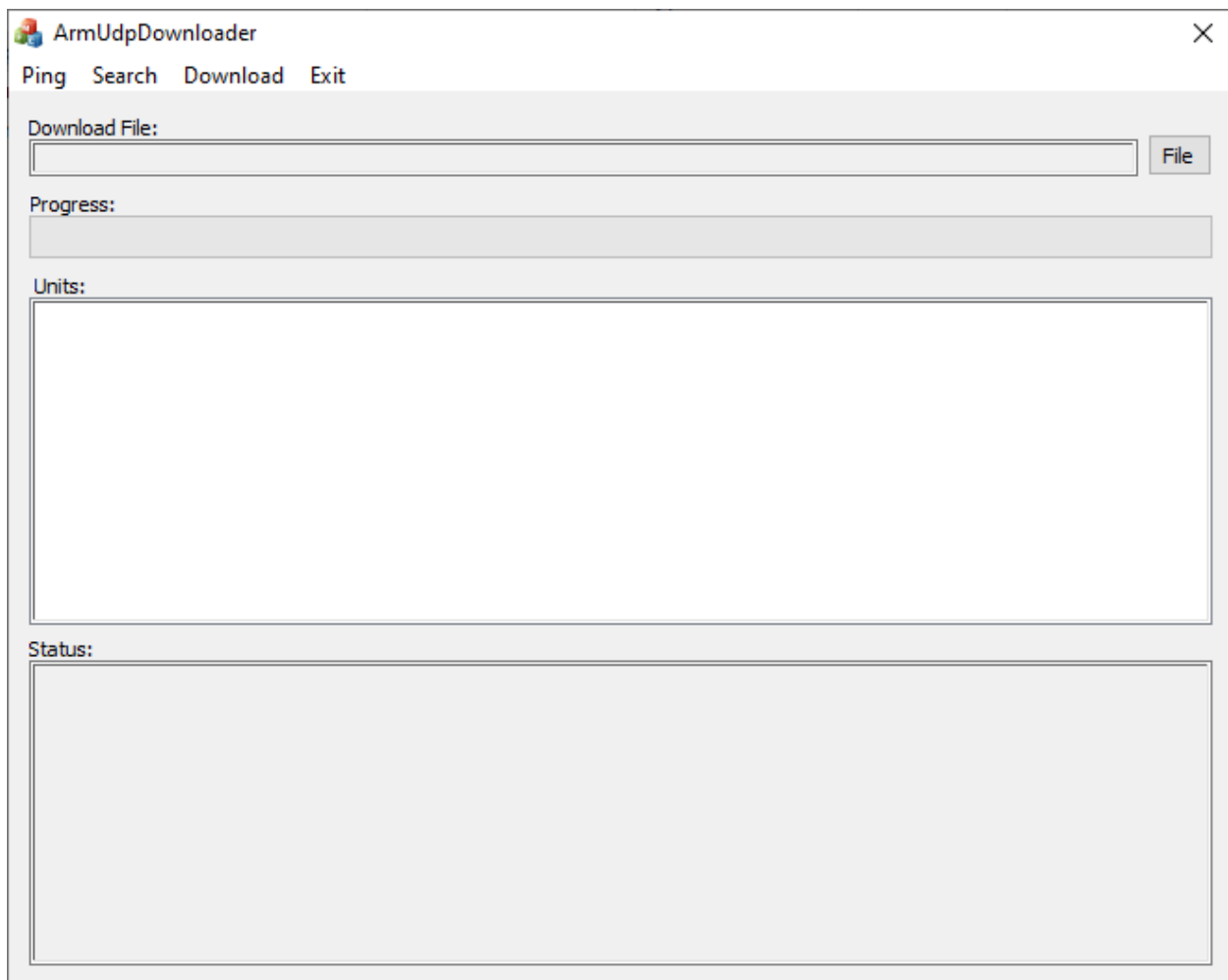
Type ftp <IP Address> and press the enter key. The IP address for the PAA is 192.168.1.22 or 192.168.1.23. Once you press the enter key you will be prompted to enter the User. The user is the serial number (begins with TEPA) of the PAA from the label located near the connectors. You will then be prompted to enter the password. The password is 1234. Once the ftp> prompt appears you are ready to update the firmware.

Type 'put paa\_arm\_fwV0\_06.bin' substituting the filename contained in the upgrade directory. Once complete the ftp> prompt returns. Type DIR, press enter, and verify the file has been uploaded. Type quit to exit FTP.

Once the file has been uploaded, open a telnet session to the unit. Hit enter and the SSPA> prompt should show. Type CPE=1234 and press enter. Type PGM=<filename> and press enter. Use the exact filename uploaded via FTP. The unit will reboot and program the flash memory. The LED on the side of the unit will flash amber during this time. Upon finishing the unit will boot into the main program and start running displaying solid red, flashing red, or flashing green LED depending on the state of the alarms. This completes the upgrade using FTP.

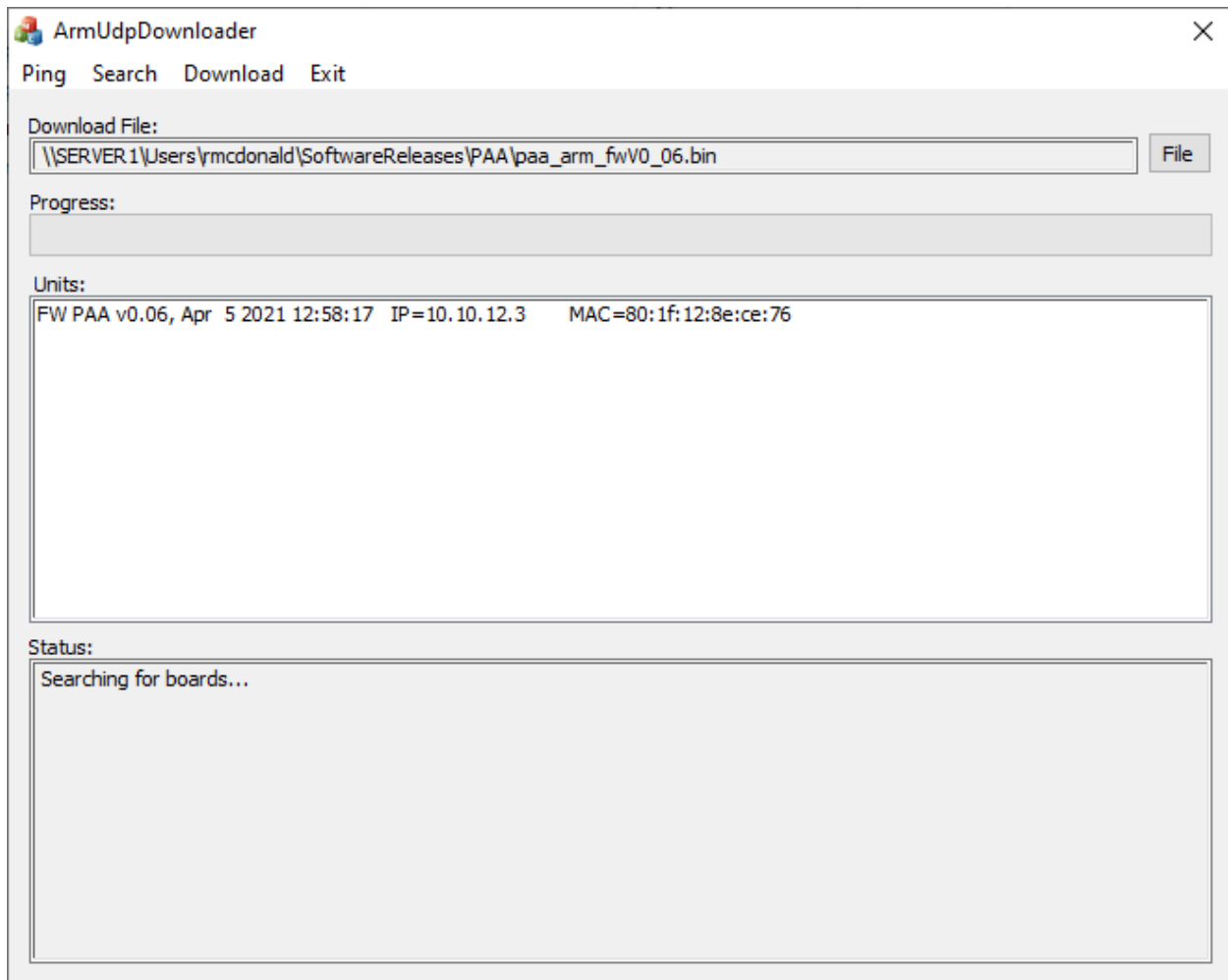
### Upgrading with ArmUdpDownloader.exe

The ArmUdpDownloader.exe screen is show below.



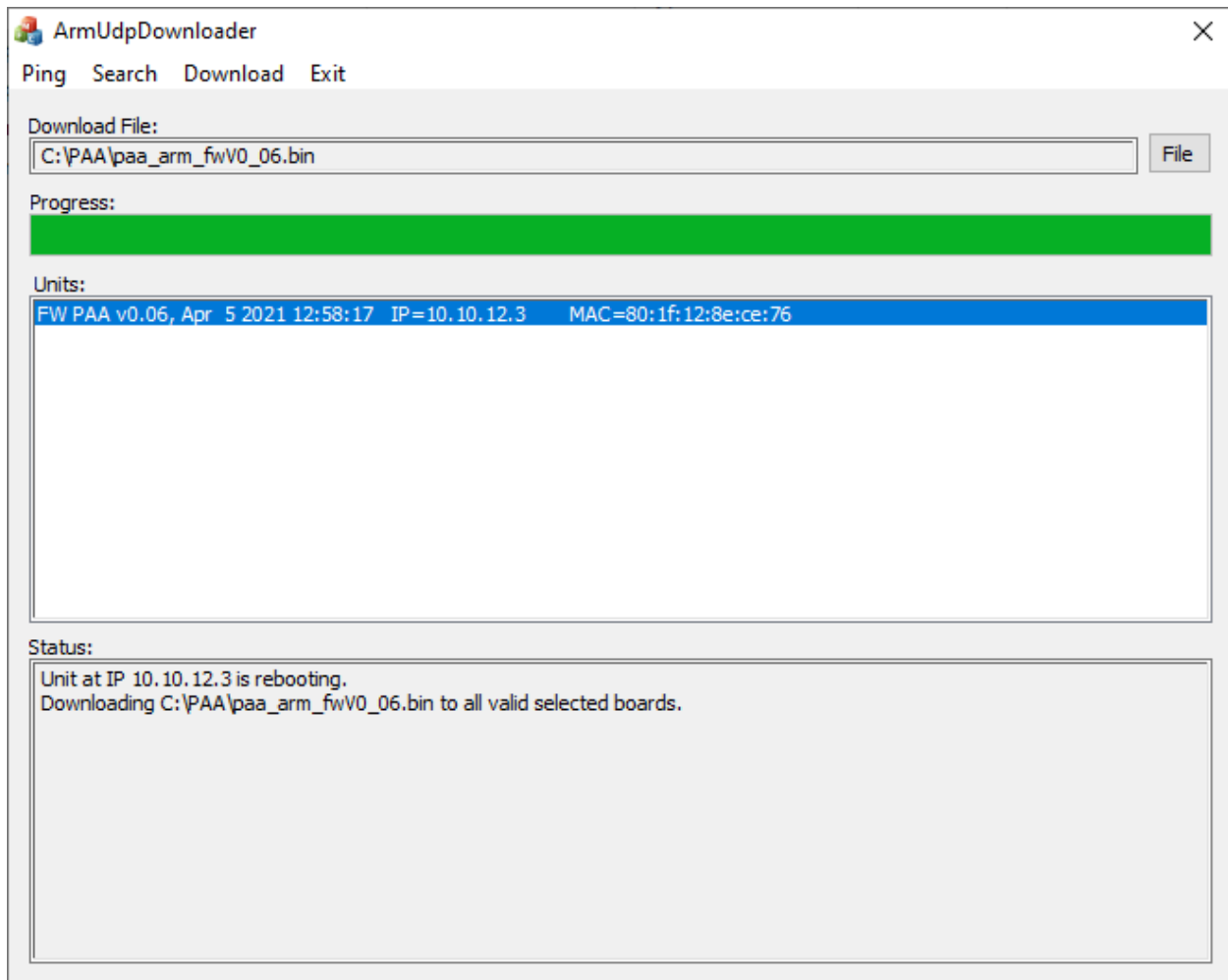
It is best to use this utility with a laptop connected directly to the RJ45 on the PAA. Click on the File button and navigate to the directory where you unzipped the upgrade package and select the file ending in .bin.

Click on the Search menu item at the top and you should see something like the following figure:



Note: The unit may show multiple times in the window and does not affect the operation.

Select the unit in the Units: window by left clicking the entry with the mouse. Press the Download menu item at the top and the download will begin. This should take less than 10 seconds to complete.



Once the unit reboots the upgrade is complete.