![Emerson Industrial Automation logo]	**Unidrive M200 – M400 Firmware Programming Instructions**

1 Summary

This document details how to upgrade the firmware of a Unidrive M200-M400. This includes upgrading control and power firmware via Unidrive M Connect.

2 Drive firmware

2.1 Upgrading from V01.02.00.04 to a more recent version

From V01.02.00.04 firmware onwards, there is a built in bootloader to allow firmware to be upgraded.

This is accomplished using Unidrive M Connect V1.5.2 or later. If an older version of Unidrive M Connect is present, please download the latest version from the main Emerson website at: www.ctmanuals.info.

Please note that upgrading the drive firmware with Unidrive M Connect will not erase any onboard program on the Unidrive M400 drive.
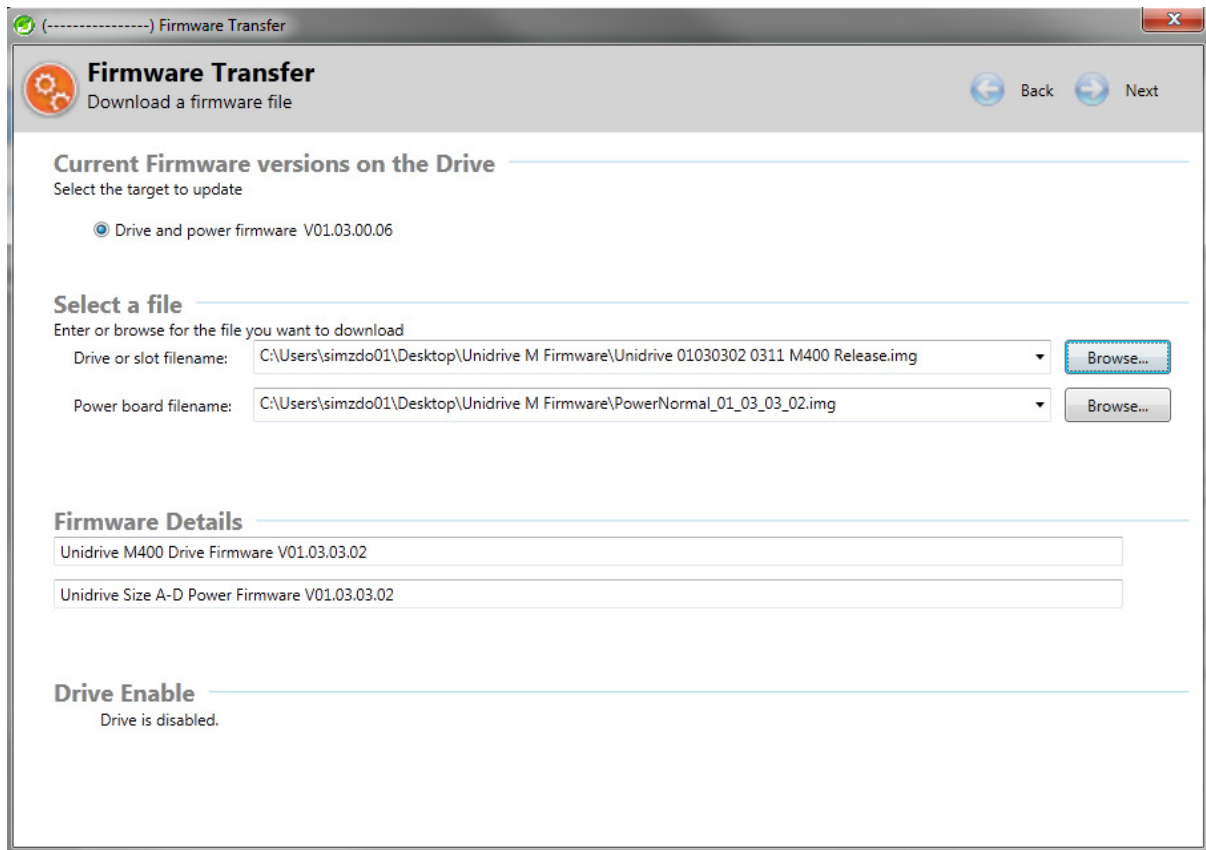
The Power Normal firmware is used with size 1 to 4.
The Power Large firmware is used with size 5 to 8.

2.1.1   Using Unidrive M Connect

As Unidrive M Connect will automatically detect available drives, minimal communication settings are required from the user.
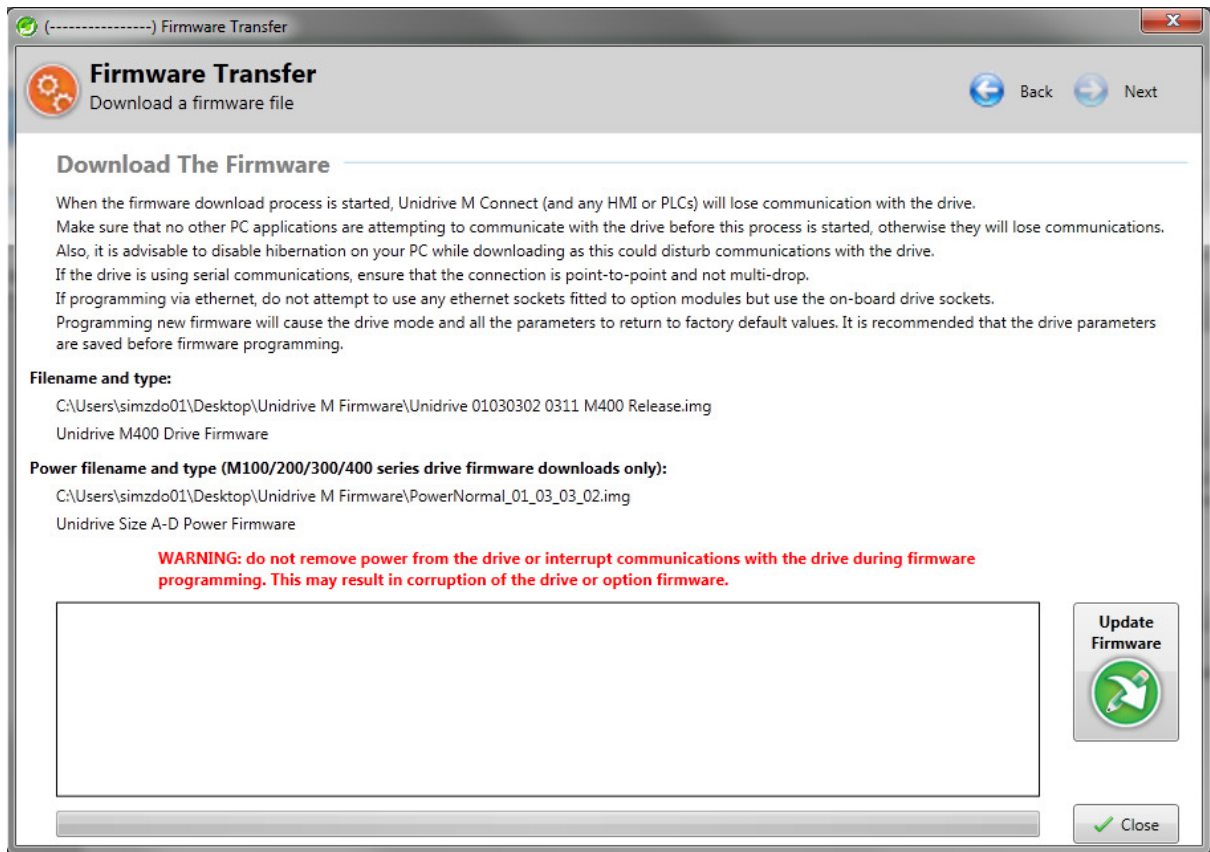
Once connected to the required drive, please click on the "Change Firmware" button. This will open up a new dialog box as shown below:

Under the "Select a file" section, please select the firmware files that are required (drive and power). All firmware files will have a file extension of ".img" E.g. Unidrive 01030302 0311 M400 release.img.
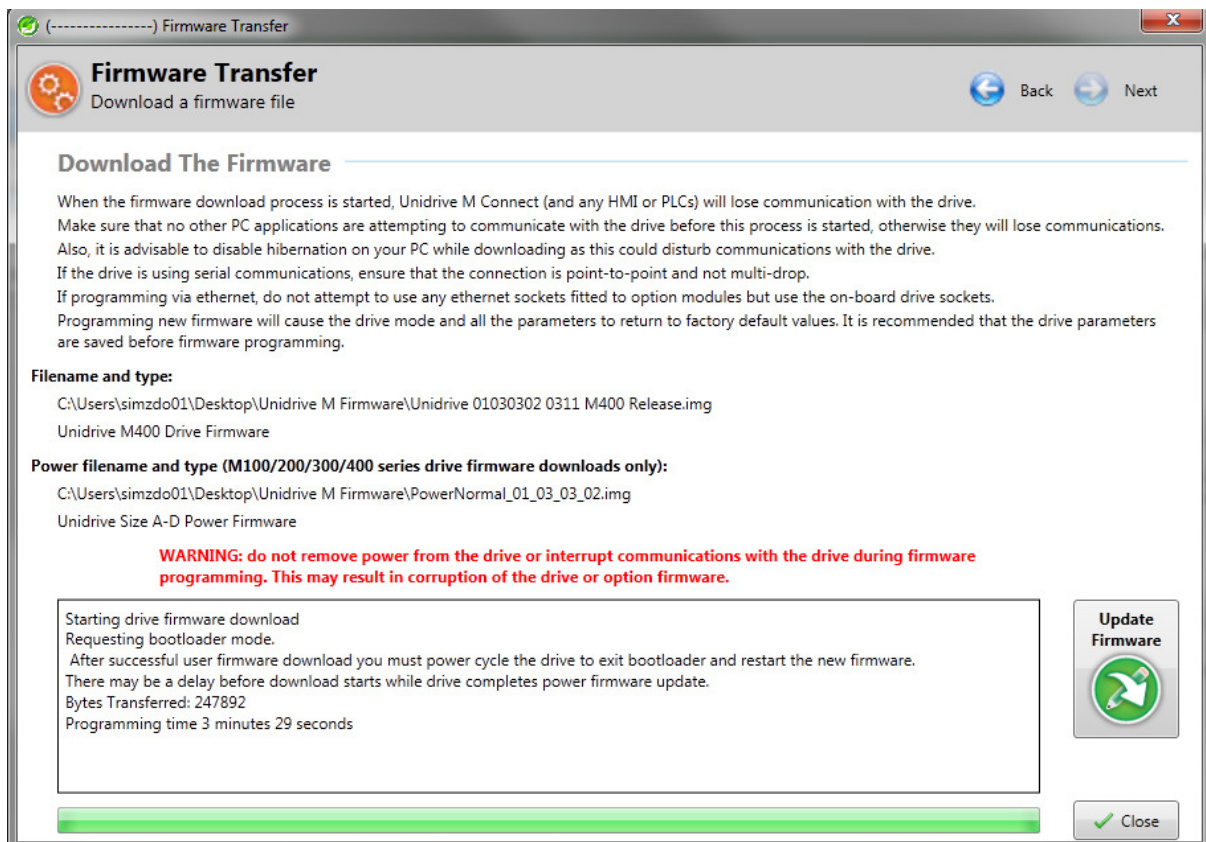
Once the appropriate firmware files are selected, Unidrive M Connect will detect the type of file e.g. drive control board firmware. Please note that the drive must be disabled to continue with the firmware upgrade.

Then click on the Next button on the top right corner and this will bring up the box shown below:

Firmware Transfer
Download a firmware file

Back Next

Download The Firmware

When the firmware download process is started, Unidrive M Connect (and any HMI or PLCs) will lose communication with the drive.
Make sure that no other PC applications are attempting to communicate with the drive before this process is started, otherwise they will lose communications.
Also, it is advisable to disable hibernation on your PC while downloading as this could disturb communications with the drive.
If the drive is using serial communications, ensure that the connection is point-to-point and not multi-drop.
If programming via ethernet, do not attempt to use any ethernet sockets fitted to option modules but use the on-board drive sockets.
Programming new firmware will cause the drive mode and all the parameters to return to factory default values. It is recommended that the drive parameters are saved before firmware programming.

Filename and type:

C:\Users\simzdo01\Desktop\Unidrive M Firmware\Unidrive 01030302 0311 M400 Release.img

Unidrive M400 Drive Firmware

Power filename and type (M100/200/300/400 series drive firmware downloads only):

C:\Users\simzdo01\Desktop\Unidrive M Firmware\PowerNormal_01_03_03_02.img

Unidrive Size A-D Power Firmware

WARNING: do not remove power from the drive or interrupt communications with the drive during firmware programming. This may result in corruption of the drive or option firmware.

Update Firmware

Close

To begin the firmware upgrade, please click on the "Update Firmware" button on the right hand side. This will then automatically download the new firmware to the appropriate target and reset it.

Once complete, the window will display that it is complete by showing the programming time as shown below. The drive will also show "End.I" or "End image":

After the target is defaulted, the target should then be ready to resume operation.