

Product Engineering Guide

Commander v10 FTP Update (IPBus)

Introduction


Commander provides a configurable link between an Ethernet network and third party system. The core software in a Commander is downloaded during the manufacturing process and generally does not need to be adjusted. However, situations can arise where the core software will require an update.

This document is a step-by-step guide to updating the core Commander software, and should be read fully before attempting the update process. North cannot be held responsible for loss of data by not following this document's instructions.

Update Requirements

To carry out the update, your computer should have access to the Commander Ethernet network, either via a CAT5 x-over cable or hub. You will also require local access for resetting the Commander.

Please note: Windows Firewall can interfere with the update process. We recommend you disable Windows Firewall for the purposes of completing the update.

 **IMPORTANT:** At no time during the update process, unless prompted, should the power to Commander be interrupted. Interruption of power can cause loss of data, and require Commander to be returned to North for a full software update.

Copy the Commander update file (cmdr.exe), supplied by North support, to the 'c:\cmdr' folder on your computer. This location is referred to later in Step 5.

Update Guide

Step 1 – Connect to Ethernet Network

Connect your computer to the Commander Ethernet network, either directly using a CAT-5 x-over cable, or via a switch or hub. Configure your computer with IP settings for the network, i.e. network mask and IP address.

If connecting using a x-over cable and Commander is configured to obtain its IP settings from a DHCP server, Commander should be temporarily reconfigured with a fixed IP address. Reset your Commander and *ensure* you can communicate with it using its current IP address.

Step 2 – Enable FTP Update Service in Commander

Using Object Tester (located in Start->All Programs->North Obsys), enable the FTP update service in Commander by writing "1" to the following object:

<Object Reference of Commander on IPBUS>.C.FE

e.g.

S6.CMDR.C.FE

Object tester should report that the object has been written. Restart your commander by writing "1" to "<Object Reference of Commander on IPBUS>.C.!rst" (without quotes). The Commander will take roughly 30 seconds to restart.

Step 3 – Start FTP on your Computer

On your computer click the Windows Start button and select 'Run...'. Type 'ftp' and click ok.

At the ftp> prompt type:

open <Commander IP address>␣

e.g.

open 192.168.2.200␣

When prompted for User, type:

update␣

When prompted for Password, type:

cmdr␣

You should see the response '230 Logged in'.

At the ftp> prompt type:

del cmdr.exe␣

Wait for Commander to finish deleting and then type:

close␣

Step 4 – Restart Commander

Reset Commander by removing the power connector for 10 seconds, then re-connecting.

The Commander will take roughly 20 seconds to restart.

Step 5 – Update Commander

On the ftp window open the session and logon as before.

At the ftp> prompt type:

open <Commander IP address>␣

When prompted for User, type:

update␣

When prompted for Password, type:

cmdr␣

You should see the response '230 Logged in'.

At the ftp> prompt type:

binary␣

send c:\cmdr\cmdr.exe␣

Wait for Commander to finish copying and then type:

Bye␣

The ftp window should now close.

Step 6 – Restart Commander

Reset Commander by removing the power connector for 10 seconds, then re-connecting.

The Commander will take roughly 30 seconds to restart.

Step 7 – Disable FTP Update Service in Commander

Disable the FTP update service in Commander using Object Tester by writing a value of "0" to "<Object Reference of Commander on IPBus>.C.FE".

Object Tester should report that the value has been written. Reset the Commander for a final time.

Step 8 – Update Complete

You have now completed updating Commander with new software. Configure the IP of the Commander if necessary and remove your PC from the Ethernet network.