

General

This help note details how to program Metrohm Ti-Touch and Touch Control platforms to save a pdf report to Shared memory, local computer or network directory, using Ethernet connection.

Procedure

A. Touch Control or Ti-Touch Programming

1. How to program a **Report** command in a method.
 - a) From the Home screen, Load method – select method to program a Report command.
 - b) Press Edit Parameters
 - c) Using the scroll bar, check if the Report command is list.
 - If yes, then highlight and tap Edit. If report options are needed, then tap Insert and select options.
 - If no Report command, then highlight the command after the Calculation command.
 - d) Tap Insert > Select Report > Edit and select report options.
 - e) Tap back > Save Method > Save. Follow message to overwrite.
2. How to configure **Touch Control or Ti-touch** for pdf saving to **network directory**
 - a) From the Home screen, **System > Device Manager > Touch Control or Ti-Touch > Edit >**
 - b) Select **TCP/IP** - Check the box - Get IP address automatically [DHCP].
 1. Back
 - c) Select **Shared memory**
 1. Computer –name that is shared, see **Appendix V**.
 2. Share name – file name that was created and shared in step 2.ii
 3. Domain – network name, see **Appendix V**
 4. User – username created in step 2.i
 5. Password – password of user from step 2.i
 6. Select on Connect – this verifies if the above information is correct.



3. How to program Printer for Shared memory
 - a) Tap back to **Device Manager screen > Printer > Edit**
 1. Printer – off
 2. Connector – Ethernet
 - b) Select pdf options
 1. Memory - Shared

B. Hardware configuration:

1. Locate Ethernet port on Touch Control or Ti-Touch back panel. Connect Ethernet cable between instrument and network Ethernet.

C. PC configuration - Server Message Block (**SMB**) protocol must be changed.

- i. Port 8005 must be opened, verify with your IT
- ii. Windows 10 file share required programming, see **Appendix I**.
- iii. Create a share folder on the computer C drive, see **Appendix II**.

D. Reporting recommendations

1. For Ethernet transfer, if user and/or password changes, then report won't be generated. If a method isn't programmed to save data file to an external flash drive or network drive, then reprinting reports isn't available.
2. If the IT department changes computer or domain, then the report won't be generated.
3. If the Ethernet cable is long, there may be a data delay by the network. Always verify transfer rate or if there is competing transfers at the same time with your IT department.
4. For Ethernet transfer, the TC or TT must be on the same subnet mask as the directed folder. Download IP calculator from Metrohm website software center. Here is link, <https://www.metrohm.com/en-us/support-and-service/software-center/ip-calculator-for-900-touch-control-and-ti-touch-devices/>
5. If multiple instruments are transferring data to the same directory or folder, then create a separate share directory or folder to prevent data delay or loss.

Appendix I

How to program Windows 10 file share

1. If computer is on domain, then IT must provide a domain user account with a non-expiring password, i.e. a Service Account.
2. If computer is not on domain, then create a new user account with password
 - a. From windows start, enter lusrmgr.msc
 - b. Action > new
 - i. User = Metrohm
 - ii. Full name = Metrohm Service

- iii. Password = MUSA
 - iv. Uncheck box and check password never expire
 - v. Click ok
 3. Enable SMB 1 - Server Message Block (**SMB**) protocol
 - a. From windows start, enter Turn Windows features on or off
 - b. Expand SMB 1.0/CIFS File Sharing Support
 - c. Only check box for SMB 1.0/CIFS Server
 - d. Click ok, then power off computer then power on ****not a restart.**

Appendix I I

How to program a folder share name

1. Open File Explorer, go to C drive or a Network drive
2. On root directory, create a new folder for PDF reports file transfer
 - a. Right click on folder> select Properties > Sharing > Share
 - i. Using the drop down arrow select or search for the Service account user created in Appendix I, then click Add
 - b. Under Permission level click drop down arrow select Read/Write/ Delete, then Share > ok