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DTW Com Port Protocol

Starting with DataTrace for Windows version 4.xx, the following serial port protocol for port identification, connection, and communication was initiated. During installation, it is important to not define any DataTrace folders or files as "Read Only". This will cause the program to fail since DTW not only stores collected profiles but also makes entries into various logs, none of which can occur with a "Read Only" designation.

Single Workstation or Network Server Installation

- When DTW installs on a target computer in the Standard Installation, it determines the serial ports that Windows believes are active.
- At least one serial port must be defined in the Setup function before communication with a Tracer will be successful. Select the Setup function and then click the Serial Port Selection button which will display a list of DTW-identified serial ports. Place a check mark in each check box to indicate which ports are connected to PC Interfaces. If multiple ports have Interfaces attached to them, each port can be checked.
 - If communication through either the Program Tracer or the Read Tracer function is attempted first, DTW indicates a communication failure with an "Interface Not Found" error message. The Serial Port must be defined in the Setup function before communication can occur.
- If multiple Com Ports have been defined in the Setup function, DTW will ask which port to use when a Program Tracer or Read Tracer session is initiated. Subsequent programming or reading actions during the same session will use the same port as defined initially.
- If Batch Mode Programming or Batch Read is enabled, DTW will access any port that was checked in the Setup function looking for a Tracer. This operation is automatic and does not require user intervention to initiate.

Network Workstation Installation

- When DTW installs on a target computer in the Network Workstation Installation, it determines the serial ports that Windows believes are active on the workstation.
- At least one serial port must be defined in the Setup function on each workstation before communication with a Tracer will be successful on that workstation. The serial port definition on one workstation has no impact on the network server or any other workstation on the network.

- Select the Setup function and then click the Serial Port Selection button which will display a list of DTW-identified serial ports on the target workstation. Place a check mark in each check box to indicate which ports are connected to PC Interfaces. If multiple ports on the target workstation have Interfaces attached to them, each port can be checked.
 - If communication through either the Program Tracer or the Read Tracer function is attempted first, DTW indicates a communication failure with an “Interface Not Found” error message. The Serial Port must be defined in the Setup function before communication can occur.
- If multiple Com Ports have been defined on the target workstation in the Setup function, DTW will ask which port to use when a Program Tracer or Read Tracer session is initiated. Subsequent programming or reading actions during the same session will use the same port as defined initially.
- If Batch Mode Programming or Batch Read is enabled on the target workstation, DTW will access any port that was checked in the Setup function looking for a Tracer. This operation is automatic and does not require user intervention to initiate.