

## ADO AUTO RESTART FOR THE MODICON MOMEMTUM PLC

### ADO Auto Restart

Under normal operating conditions, the psCtrlM ADO has an auto restart feature that constantly checks the “Run” state of the Modicon Momentum PLCs. If a PLC is not in the “Run” state, the ADO will try to start it.

When trying to program a PLC remotely with the ProWORX NxT application, the device must first be stopped. This conflicts with the ADO’s efforts to keep the PLC running. Attempting to program the PLC while the ADO is running may cause the ProWORX NxT application to freeze. Worse than that, it may also cause the PLC to “crash”, leaving it in a state where it can no longer communicate over the network. The only recovery from this condition is a power reset.

To avoid this scenario, the user should run a script that will disable the auto restart feature of the ADO. The script is named modAutoRestart, and is located in /home/cfsd/joep/scripts.

The script takes two arguments. The first argument is the location of the PLC. (i.e. 9c) The second argument is the desired state of the auto restart function, On or Off. On will cause the PLC to auto restart, Off will not auto restart.

Example:     /home/cfsd/joep/scripts/modAutoRestart 9c Off     turns off auto restart  
              /home/cfsd/joep/scripts/modAutoRestart 9c On     turns auto restart on

This command should be typed in the Console of Reflection X.

To summarize, the remote programming of a PLC should be done in three steps:

- 1) Run script to turn off auto restart
- 2) Program the PLC with ProWORX NxT
- 3) Run script to turn on auto restart