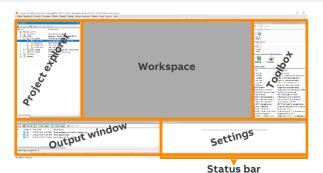
EduCheats for Automation Studio



Workspace



Online connection to PLC

- Main menu: Online → Settings...
- select @ Browse
- on desired PLC → Connect

PLC and engineering computer must be in the same IPaddress space and SNMP must be enabled.

Activate SNMP before the first transfer:

Phyical View → ETH → ↑ Configuration → SNMP Parameters

The PLC can no longer be found without SNMP. The system must be reset.

PLC reset

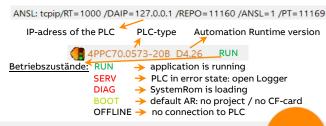
- Set the PLC to BOOT mode using the operating mode switch or reset button (1x <1s & 1x >1s).
- · Connect and transfer project

Transfer project

- Requirement: Active connection to the PLC
- Build & transfer

Status bar

· Requirement: Active connection to the PLC



Automation Studio Help

- Can be opened at any time with F1
- Is context sensitive; opens entry for selected object
- Can be searched via the Search tab

Insert new program/task

- 1. Switch to the **J** Logical View in the project explorer
- Select the filter *Program* via the *Toolbox*
- 3. Insert the program in the desired language using drag & drop or double-click

Restart simulation

- Simulation will end after 2 hours
- A Pop-up message is displayed
- Simulation must be restarted
- On in Windows taskbar → Toggle View → Restart

Diagnostic tools

System Diagnose Manager (SDM):

- Extensive diagnostic tool via a web browser
- Main menu: Tools → System Diagnostics Manager Logger:
- Display of PLC system events
- Helpful in case of unexpected system behavior
- Various filter options: errors, warnings, modules etc.
- Main menu : *Open* → *Logger*

Monitor:

- Activate Monitor in the toolbar
- Variables can be inserted and observed in the manual Watch for functional analysis
- · Graphic programs show the signal flow
- Line Coverage can be activated in textual programs
- Observe and set (force) i/o states directly at the i/o-card in the Physical View

Watch:

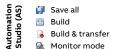
- Enables monitoring and interacting with variables. functions and function blocks
- the desired program in the ♣Logical View: Open → Watch
- Insert variables in the watch via ≜or ✓ with

- Allows recording of variable values
- the desired program in the Logical View: *Open* → Maintenance Institution And Select variables with / Insert Variables
- To configure ! Settings

Debugger:

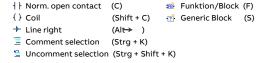
- Requirement: Active monitor mode
- Enable Debugger in toolbar
- Set a ♥ Breakpoint, single-step with €

Important toolbar items & shortcuts:















Uncomment selection (Strg + Shift + K)

Function/Func. block Comment selection (Strg + K)