



Andhra Pradesh State Skill Development Corporation



The image is a composite of two parts. On the left, there is a diagram of a Learning Management System (LMS). It features a central computer monitor displaying the 'LMS' logo. Various icons and text labels are connected by lines to different parts of the system: 'courses' (top), 'documentation' (top right), 'tracking' (right), 'e-learning management' (bottom right), 'education' (bottom left), 'system' (left), and 'software' (top left). On the right, there is a photograph of three individuals (two men and one woman) wearing headsets and working on desktop computers in what appears to be a call center or customer service environment.

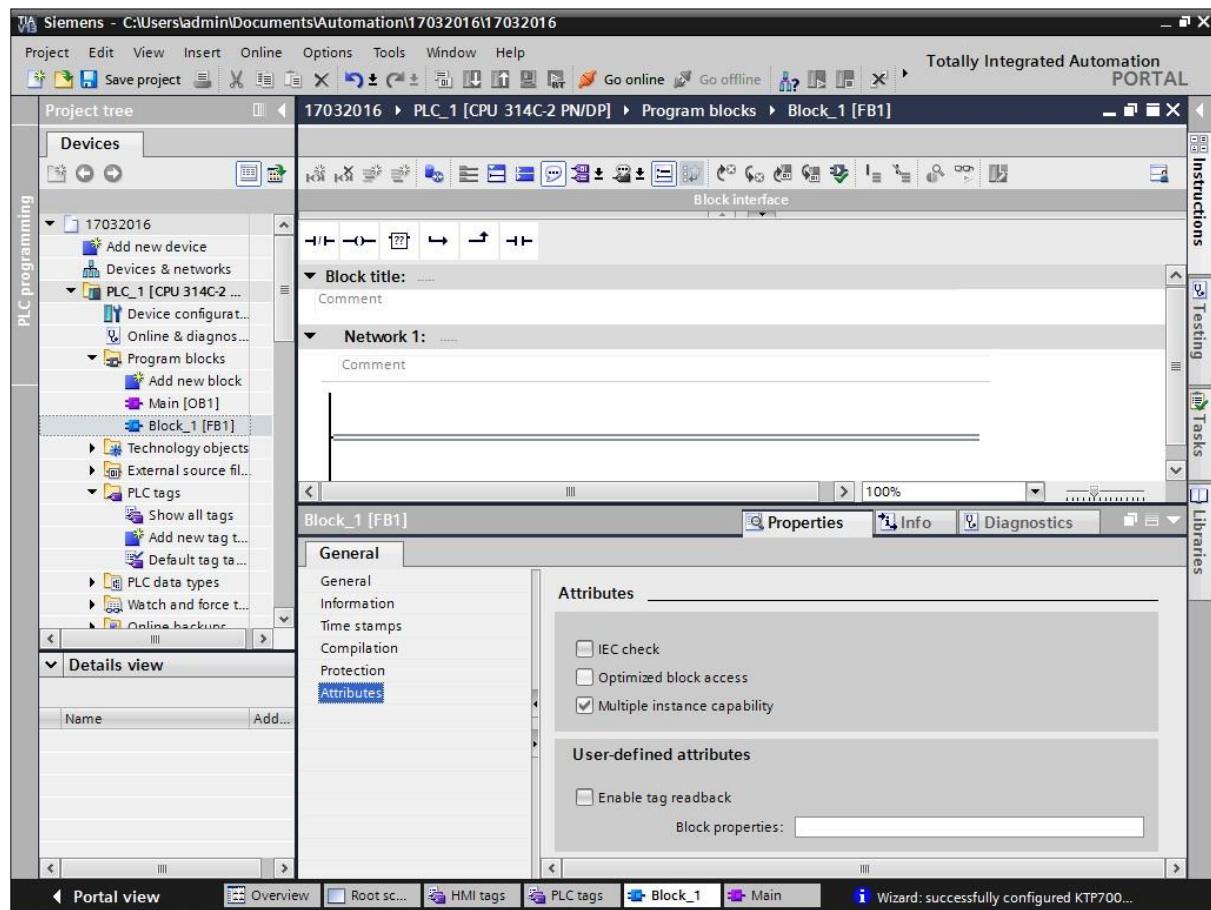
Basics of PLC

Functional block (FB) and Data block (DB) with an example each

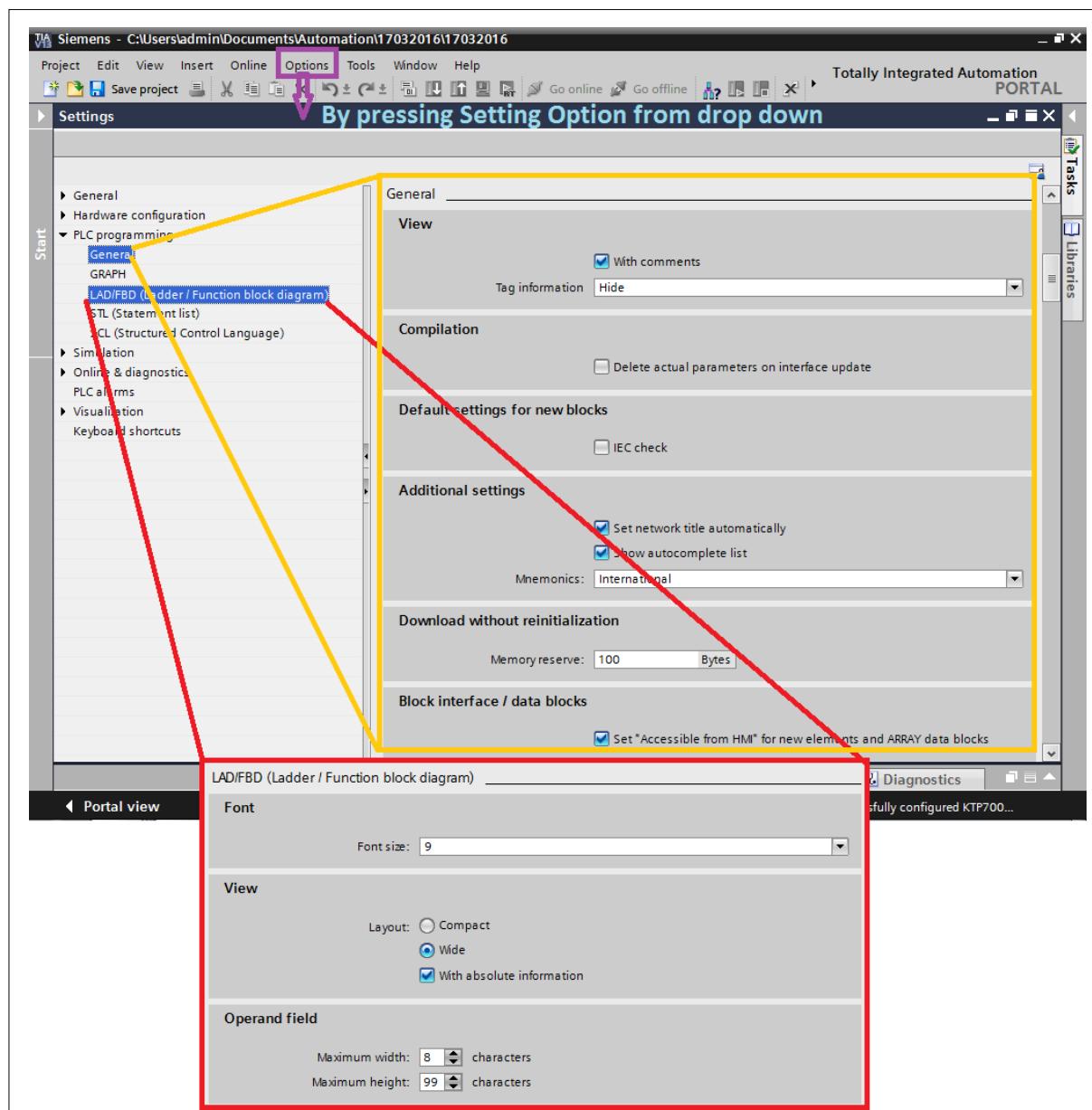


Other Block Attributes, Editor Settings, Networks

Attributes



Block editor settings



With the settings, you merely define how a block is to be represented when it is opened. In the editor, you can make changes (such as showing and hiding comments) at any time.

- Compilation
- When "Delete actual parameters on interface update" is activated, the calls of parameterized blocks are automatically adjusted if, within the block, parameters are deleted after the fact.
- IEC check



- Only variables of an absolutely correct data type can be used. If an operation requires a variable of the data type INT, no variable of the data type WORD can be used even if the dimension (16 bits) is the same.
- Optimized block access
- Data block variables and local variables within blocks can only be addressed symbolically and not absolutely. Benefit: optimum memory allocation and shorter access times
- Mnemonics
- Setting the syntax for the programming language: German (e.g. E for Eingang (Input)) or International (e.g. I for Input)
- Layout
- When "with absolute information" is activated, the absolute addresses of global operands are also displayed.
- Operand field
- Setting the maximum width and height of function block diagram and ladder diagram symbols.

Networks

Just as the entire user program is subdivided into individual blocks, the individual blocks in turn are made up of individual networks. The subdivision of a block into networks is defined by the user. Every network can be given a network label and a comment. Within the networks, the individual instructions can be given instruction comments.