

Position



Motor



Power

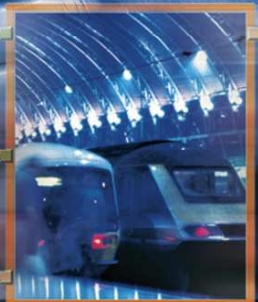


On

Control



Speed



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The most important logi.CAD Features

logi.CAD[®]

Project Management

The Project Management of logi.CAD is the tool to record your user data in form of logi.CAD-projects. You structure your project with its essentials parts so as to represent the real plant.

The Project Management offers:

- project tree for fast navigation
 - operation according to Windows® Explorer
 - arbitrary structures for user and firmware libraries
 - support of labeling systems (ULS, PPLS)
-

FBS-Editor

With this editor you can create program organization units (POUs), such as programs, functions blocks and functions, in the function block diagram (FBD) language.

The FBD-editor is the core component of logi.CAD. It will be the environment where the automation engineer implements control functionality.

The FBD-editor allows you

- to develop, test and document projects
 - in function block diagrams (FBD) conform to IEC 61131-3.
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ST-Editor

With the ST-editor you can create POUs in the IEC-programming language "structured text" (ST).

The ST-editor is – together with the FBD-editor – the core component of logi.CAD.

The ST-editor allows you

- to develop, test and document projects
 - in programming language "structured text" conform to IEC 61131-3.
-

SFC-Editor

This is the editor for programming in sequential function chart (SFC) language. It is integrated in the FBD-editor and serves to create step sequences. The programming tasks are created in sequential-oriented form by using step sequences.

This programming type is suited for creating plans of plants the single functions of which should be integrated into the entire sequence.

"LD-Editor": Ladder Diagram with FBD-Editor

With the FBD-editor you can create/modify POU's also in the IEC programming language "ladder diagram" (LD). Ladder diagrams illustrate the current flow through the single networks of the POU and derive from electro-mechanical relay systems. This programming form is essentially limited to the processing of Boolean signals (TRUE or FALSE).

Offline-Simulation incl. Instant-Reload

By using the module "offline-simulation" you can test programmed functionality already before putting-into-operation in order to be able to detect errors as early as possible and to eliminate them.

The "instant-reload" enables you to modify logic while the offline-simulation is running. Subsequently you can visualize the modified logic in offline-simulation at once.

Logic Analysis with Oscilloscope Functions

These functions serve for chronological representation of

- float values in curve form (oscilloscope) and
- digital or binary values (logic analysis)

during the offline-simulation or the logi.CODE online-test with a specific resource type.

Watchpages

The "watchpages" allow visualization of runtime data from automation systems or the offline-simulation. The data is visualized in worksheets, where data from different automation systems can even be visualized in one worksheet. In addition it is possible to modify the runtime data during the visualization.

Version Management

The product "version management" is used in order to save and manage data of logi.CAD-objects in archives. The data can be copied from the archive at any time in order to continue editing the data.

You have the following possibilities:

- saving the working version of the object as a version in the archive
 - copying a version of the object from the archive
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Access Control

By means of the access control you can restrict the access onto

- logi.CAD itself,
- program parts of logi.CAD and
- objects created by logi.CAD.

After the installation logi.CAD is run as an open system with all access rights.

Thus, all users can execute all actions in logi.CAD, as long as access rights are not restricted.

Workgroup Support

The workgroup support allows various users to edit one logi.CAD-project at the same time:

- The project members can edit different objects within the project – independent of each other.
 - A protective mechanism prevents one object from being edited simultaneously by different users.
 - Although one user (= the "owner") is editing the object, other users can use a "public" version of the object.
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Workflow Support

The workflow support enhances the existing workgroup support with functionalities to pass on an existing edit-lock for one user to another user.

Therefore, workflow support allows passing on existing locks without previous release of the lock.

Typical-Import

The typical-import helps you save time and efforts when projecting:

- Already existing logi.CAD logic sheets can be imported into the current POU.
 - You can modify the data of those logic sheets before the data is imported.
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Signal List

The signal list handles data of project-global signals in any database (e.g. Microsoft Access database). This database is accessed via the ODBC-interface.

Process signals (measuring points as well as sensors and actuators) that are already known from the planning process (by using CAE-tools) can be used while creating a project.

Documents-Management

The documents-management allows you to collect different logi.CAD-objects in a documents-object in order to

- print these documents together and
- have a common revision management for them.

The documents are managed by the documents-editor.

POU-Protection Program

By means of the POU-protection program LCStripPOU you can protect the internal logics and hence the know-how of POU's against unauthorized access. Users can use such protected blocks as usual, but they cannot see the internal logics.

XML-Import of Project Data

With XML-import, you can import logi.CAD project data from a text file in XML-format and thus create objects in logi.CAD.

This makes it possible to quickly import data already created in other applications into logi.CAD. Already exported project data can also be modified by a text editor in order to import the data as new logi.CAD object (this is an alternative to typical-import).

You are using the advantages XML is known for:

- The logi.CAD project data exist as hierarchically structured text files.
 - XML is best suited for data exchange between different systems.
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XML-Export of Project Data

With XML-export, you can export logi.CAD project data to a text file in XML-format.

You can export any project data from logi.CAD in order to further process this data by using a different system (e.g. modify the data with any text editor or evaluate or modify the data after an according transformation by a program of your choice).

You are using the advantages XML is known for:

- The logi.CAD project data exist as hierarchically structured text files.
 - XML is best suited for data exchange between different systems.
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logi.CAD/RE (Runtime Edition)

The logi.CAD base system for online monitoring automation systems is available as logi.CAD/RE (Runtime Edition). It makes it also possible to alter runtime variables in the running system.

Pro: logi.CAD/RE is a lower-cost alternative to logi.CAD.

Restriction: Program modifications are not possible in logi.CAD/RE.

logi.CAD/SE (Server Edition)

The server edition (also called "logi.CAD/SE") is provided for operation on the plant. It serves as communication gateway between one and several OPC servers and one or several automation systems.

The server edition is a lower-cost alternative to logi.CAD. It does not provide a user interface and can be used as data source e.g. for the logi.cals product opcSERVER.

Development Tool CDK (Customizing Development Kit)

The development tool "CDK (Customizing Development Kit)" allows you to adjust the base system logi.CAD to your in-house corporate identity, such as integrating your own startup bitmap and your own icon in the title bar, changing the product name etc.

Development Tool LDK (Language Development Kit)

Do you wish logi.CAD to be available in a specific language but it is not offered? Are you interested in performing the translations necessary?

Then the development tool "LDK (Language Development Kit)" is right for you.
