Increasing applications engineering productivity

FoxRTU Station

FoxRTU Station is compatible with the Foxboro RTU models that use the CP-3 processor module.

Product at a glance

The FoxRTU Station is the configuration and pro-gramming environment for SCD2100 compact RTU and SCD2200 RTU systems that use the CP-3, 32-bit processor module.

Incorporating the full suite of five IEC 61131-3 languages, the FoxRTU Station is the first RTU software environment to support ISaGRAF 5 with IEC-61499, the distributed processing and interoperability extension to IEC 61131-3.

Informative dialog boxes allow users to quickly view conditions at a glance, and Outlook-style displays simplify advanced configuration and diagnostics.

Fully-integrated SCADA

The FoxRTU Station is a fully integrated system that enables users to view, edit, program, and diagnose their systems without switching between cumbersome software packages.

An enhanced, Microsoft Outlook®-style graphical user interface (GUI) makes FoxRTU Station intuitive and simple to learn. Intelligent, default settings for programming and communications as well as a large array of pre-programmed function blocks greatly simplify the addition of new capabilities for Foxboro® SCD2100 and SCD2200 RTU solutions.

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Enhanced GUI

Designed to maximize productivity, the FoxRTU Station incorporates a Microsoft Outlook-style interface that will be familiar to Microsoft Windows users. Intuitive, drag & drop actions and easy-to-understand graphical representations simplify even the most complex application programs.

Embedded ISaGRAF IEC 61131-3

FoxRTU Station fully embeds the ISaGRAF 5 control software environment and supports all five, IEC 61131-3 standard control program languages as well as Flow Chart. The following are standard control program languages:

• ST — Structured text

• LD — Ladder logic

• FBD — Function block diagram

• IL — Instruction IList

• SFC — Sequential function chart

• FC — Flow chart

IEC 61499

IEC 61499 presents guidelines for the use of function blocks to control and manage distributed industrial process, measurement and control systems. The IEC 61499 standard provides a number of significant benefits to distributed applications including:

• The regulation of the flow of control decisions for an interacting distributed control system

• Providing for the consistency of data

• Providing a means to ensure synchronous operation between devices

• Eliminating the need to have separate synchronization schemes

• Easing the development and maintenance of robust control systems
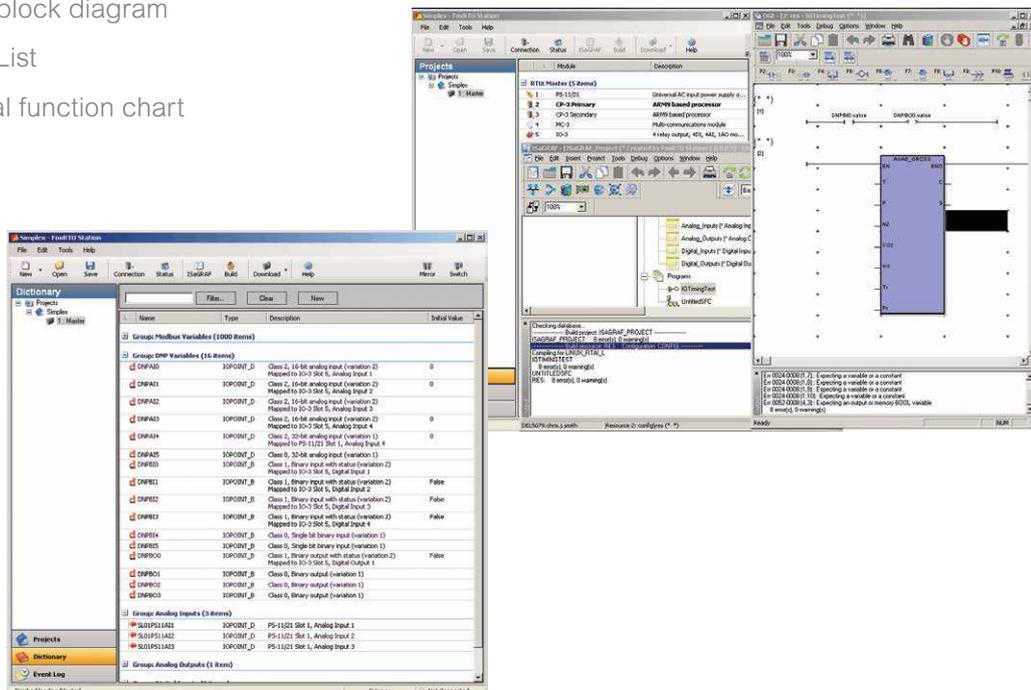
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IEC 61499 also has the ability to encapsulate automation functionality so that machine builders can create IEC 61499 function blocks for different components of the machine and assemble them only to achieve the desired operation. The IEC 61499 provides the benefits of object-oriented programming in an environment accessible to automation engineers.

FoxRTU Station library

In addition to the IEC 61131-3 library of standard functions and function blocks, FoxRTU Station includes a specific library that includes algorithms, calculations, functions and function blocks that have been proven over thousands of applications.

Supported operating systems

Windows 2000®, Windows XP®, Windows Vista®

Minimum computer specifications

- PC with 300 megahertz (MHz) or higher processor clock speed recommended; 233-MHz minimum required
- 128 megabytes (MB) of RAM or higher recommended
- 1.5 gigabyte (GB) of available hard disk space
- Super VGA (800 × 600) or higher resolution video adapter and monitor
- CD-ROM or DVD drive
- Keyboard and mouse or compatible pointing device
- USB port for hardware protection dongle
- 10/100 Ethernet port

Software protection

Hardware dongle provided — requires USB port

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