

Discover the latest in automation software technology.

Introducing

ISaGRAF 4.5

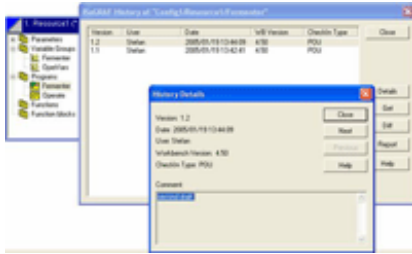
technology developments

what's new

ICS Triplex ISaGRAF announces the release of ISaGRAF v4.5

Take advantage of the features offered in ISaGRAF 4.5, the latest version of the world-renowned ISaGRAF technology:

- Multi-collaboration
- Workbench support for all version 4 targets
- Version Source Control
- Faster compilation speed
- New license schemes
- New short-keys & pop-up commands
- Syntax highlight ST & IL editor
- Array index outbound checking
- Download using IXL (including Advanced Options)
- Printing enhancements
- Binding mechanism enhancements (access path)
- Language editor enhancements
- Modular installation capabilities



Here are just a few of the benefits offered by the powerful ISaGRAF 4.5 technology:

- ISaGRAF gives you the **freedom to choose** H/W platform, O/S, and architecture that best fit your automation requirements.
- ISaGRAF allows you to leverage your **core competencies**.
- ISaGRAF allows you to **reduce costs, implementation cycle time, and time to market**.
- ISaGRAF enables your solution to **comply to international standards** and to be serviceable by hundreds-of-thousands of application engineers worldwide.

ISaGRAF used in Kontron's ThinkIO Industrial PC

Kontron's ThinkIO DIN Rail PC provides the combination of a complete, effective PC (Intel® Pentium® MMX compatible 266 MHz processor), the WAGO IO/-System 750 as well as the leading IEC61131-3 compliant software ISaGRAF (Soft PLC provided by ICS Triplex ISaGRAF).

ICS Triplex ISaGRAF Receives PLCopen Motion Control Certification

We are pleased to announce the release of the ISaGRAF Motion Control software solution. This solution has been certified to the PLCopen Motion Control specification.



featured partner



Dedicated to implementing cutting edge ISaGRAF-based automation and process control technologies, Centris helps integrators, OEMs and industrial end-users to create modern, reliable and flexible open control systems.

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The optionally available ISaGRAF package provides for an easily configurable solution. It includes editors for the development of controller applications and all IO nodes are directly configurable through the software. This results in plug and play capabilities for all of the I/O clamps.



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success stories

Control of Hydraulic Parameters Success Story

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Application: Control of Hydraulic Parameters of District Heating Region "Zemliane" in Sofia

Plant: Heating Plant "Zemliane"

Software: ISaGRAF Enhanced v.2.4

Hardware Configuration: 2 QNX target nodes (Simatic Box Industrial PC)

SST PFBDP card in each node
10 Profibus DP slaves – 4 Rockwell, 5 Siemens, 1 Beckhoff
Redundant Optical Line for PFBDP
3 WAGO Ethernet slaves via Wireless link
2 operator stations

Software Configuration: Fail-Over functionality, 2 HMI applications, AE viewer, Trend Viewer, Modbus IP driver, PFBDP driver, SmartPID

Description: The system controls the hydraulic parameters of the hot water pipes in District Heating Region "Zemliane".

The basic algorithms are realized via remote control of Rockwell's PowerFlex 7000 Frequency Drives for 6 kV network pumps (4 of them, 2 MW each). The system controls the water flow and the pressure in the heating plant and in the end points where signals are measured by local WAGO modules and transferred to the system via wireless Ethernet. The system realizes control of the flow through 4 water-heating boilers of 100 MW each. The system controls the flow of feeding water to the heating network.

Results: The system achieves at least 0.5 % precision in the control of the differential pressure (main control algorithm), pressure at the back water pipe (via feeding water flow), level and pressure in the deaerating unit. Extensive information is given to the working personnel – over 60 trends, reports for 100 parameters, etc. The control of pumps is fully automated – speed control, automatic change of pumps, automatic loading of newly switched on pump, automatic unloading of a pump intended to be switched off automatic check of work conditions for each pump, temperature control of the bearings of the motors and pumps.



www.isagraf.com

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