

spotlight

ISaGRAF 5 embedded in Semaphore's new Compact SCADA System RTU



CSE-Semaphore selected ISaGRAF 5 for their new Kingfisher G30 compact remote terminal units.

The Kingfisher G30 fully embeds the ISaGRAF 5 control software environment to provide support both the IEC 61131-3 and IEC 61499 standards. The G30 compact RTU allows open programming in all 5 languages specified by the IEC 61131-3 standard and supports IEC 61499 for easy creation of distributed control applications. Function blocks for applications such as AGA flow calculations are provided in the comprehensive function block library.

[Read more](#)

upcoming events

April: Workshop: IEC 61499 and the ISaGRAF implementation of this standard in Vignola, Italy



ICS Triplex ISaGRAF partner PROMETEO Srl and CRIT will be hosting an IEC 61499/ ISaGRAF workshop at the historic La Rocca di Vignola castle on April 23, 2008.

success stories

I-8000 Waste Water Treatment System



With the delicate tolerances involved in waste water treatment, it is no surprise that a precision industrial data acquisition solution is needed to closely monitor and assess waste water attributes. With such factors as: pH, toxicity, and chemical composition, it is no surprise that wastewater processing requires accurate and accessible HMI platform, to ensure operators receive easy to read, reliable information.

The cost-effective ICP DAS solution for OEM scale waste water treatment facilities enables users to implement a powerful data acquisition solution across a vast information infrastructure. The I-8837 ISaGRAF embedded controller offers a vast platform to implement any IEC 61131 language. The I-8837 introduces flexible and modular solutions, which enables users to rely on a familiar control protocol, while implementing a vast array of diverse commercial-off the shelf I/O componentry, to custom meet their needs!

ICP DAS then had to carefully select a SCADA solution to work in conjunction with the immense data acquisition process at hand. ICP chose to implement InduSoft's cutting edge "web-ready" HMI solution (more details are available in [the full version of this success story](#)).

With a robust combination of reliable embedded software, and modular hardware architecture, the ICP DAS I-8837 allows Waste Water plant engineers a stable platform to monitor and control their installations, while saving time and money via precision process control!



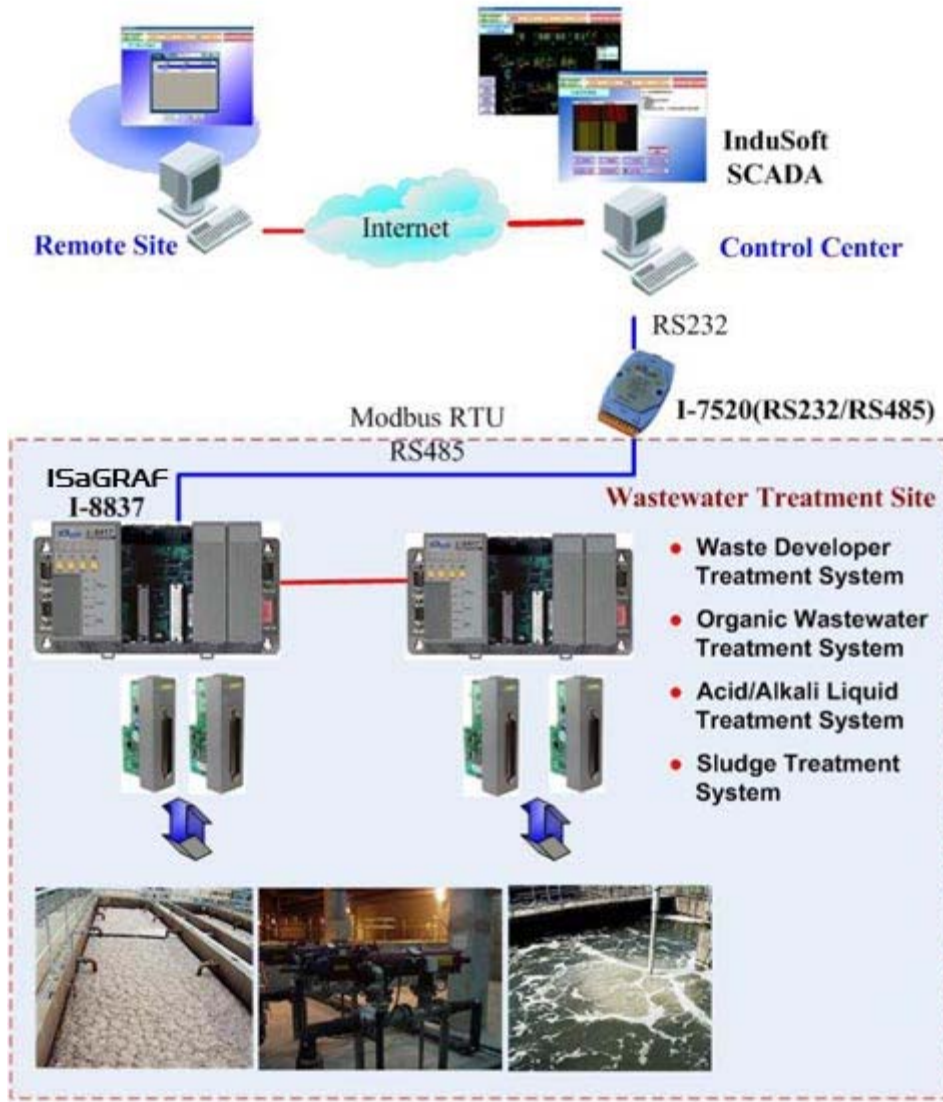
CNR-ITIA will be present to discuss their IEC 61499 applications and ICS Triplex ISaGRAF will present their 70-controller IEC 61499 demo.



The ISaGRAF IEC 61499 Demo Kit, an IEC 61499 and IEC 61131 tool that allows you to become familiar with distributed application environments, will also be on display.

[Click here if you are interested in attending this workshop](#)

Waste Water Treatment System Flow Chart



[Click here for the full version of this success story](#)

tech feature

Tech Note #6 - Distribution model

Overview

A Distribution Model represents parts included in a measurement and control system. Figure 2 shows these parts of a distribution model. An application can be distributed by allocating its function block instances to different resources in one or more devices. Function blocks are the atomic unit of distribution. An application built with many function blocks is displayed as one schematic while its function block instances are distributed across resources and devices. Figure 1 shows a control system having many devices connected together via the control network. The application built with function blocks is distributed across these devices.

May: ISaGRAF Seminar in St-Petersburg, Russia



ICS Triplex ISaGRAF master distributor Fiord will be hosting an ISaGRAF seminar in the NEVA room of the Baltic Hotel in St-Petersburg on May 15, 2008.

There will be presentations on the newest version of ISaGRAF, as well as discussions on ISaGRAF-based solutions. More information about the seminar is available on the [Fiord website](#).

Many leading systems integrators and controller manufacturers from Russia have already confirmed their attendance.

[Click here if you are interested in attending this seminar](#)

ISaGRAF training

Let our experts show you how to use ISaGRAF and give you some tricks & technical tips or let them guide you through the features offered in ISaGRAF version 5 and provide you with an in-depth understanding of IEC 61499.

Group training sessions are offered in Montreal (Brossard), Houston, or Maldon, UK on the following dates:

2008 Dates	Location
April 15-17	Brossard, Canada,
May 13-15	Houston, USA,
June 17-19	or Maldon, UK
July 15-17	
August 12-14	

Alternatively, you may schedule a training session at your offices.

[Register now](#)

contact us

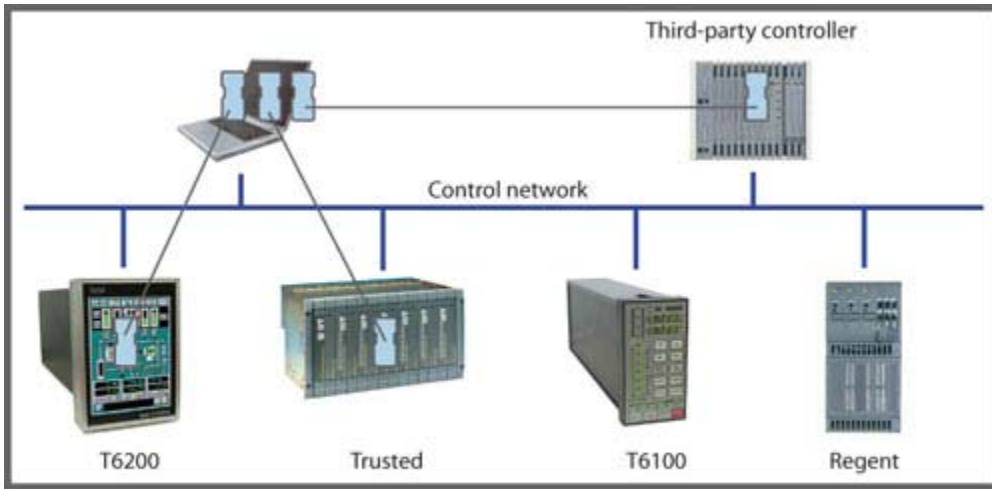


Figure 1: Distributed Application

Many devices (Configuration) are connected together via a communication network. The device is a self-contained hardware capable of executing a control loop. The device is a controller having a processor, memory devices and may contain a communication network when used in a distributed application.

An application may consist of one or more control loops where input sampling is performed in one device, control processing is performed in a second device, and output conversion is performed in a third device. These cooperative control loops share data in a predictive and deterministic way described in the IEC 61499 standard.

An automation and process control application runs in a single device or across multiple devices to split the load and use the feature specialty of each device.

In ISaGRAF, each program can be a distributed application... [read the full tech note](#) (.pdf)

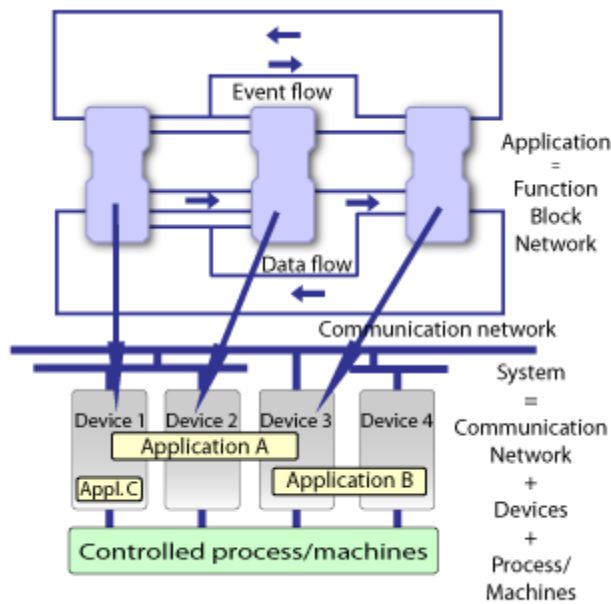


Figure 2: IEC 61499 Distribution Model

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