

ISaGRAF
A Rockwell Automation Company



spotlight

ISaGRAF training

Introducing ISaGRAF 5.21

See what's new in this latest version of the ISaGRAF IEC 61131-3 and IEC 61499-compliant technology. Some of the key enhancements are listed below:

- Addition of ISaVIEW, an integrated HMI;
- Windows Vista® compatibility;
- Support for ISaGRAF 3 platform, including automatic import of ISaGRAF 3 projects;
- Addition of several new Advanced Control Function Blocks for faster development and reduced resource consumption. [Full list of new Advanced Control Function Blocks](#);
- New localization: Simplified Chinese;
- Additional ISaGRAF porting examples.

[Watch the ISaGRAF v5.21 enhancements tutorial.](#)

More on ISaVIEW

ISaVIEW enables users to build custom graphical screens for visual debugging and simulation. Features include:

- The ability to create custom screens for each ISaGRAF project;
- The ability to use standard or custom library objects;
- Animation options (rotate, resize, move) with several possible actions;
- Compatibility with HiBeam, ISaGRAF's web-based HMI solution with embeddable event-driven data server. [Click here for more information on HiBeam](#)

[Click here for more on ISaGRAF 5 and IEC 61499](#)

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 offered in Montreal (Canada) or Houston (USA) on:

April 21-23, 2009
May 19-21, 2009
June 16-18, 2009
July 21-23, 2009

Group training sessions offered in Meylan (France) on:

May 11-15, 2009
May 25-29, 2009
June 8-12, 2009
June 22-26, 2009

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

[Register now](#)

upcoming events

User's Conference

ICS Triplex ISaGRAF is planning a user's conference in the Fall of 2009.

We will be sending out a survey in the near future to propose locations and determine attendee availability. We would also welcome your input regarding topics of interest.

If you want to ensure that you're invited to the conference, send your contact information to info@isagraf.com.

contact us

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spotlight

ISaGRAF 5 now supports Advantech's ADAM-5550 Programmable Automation Controller

ISaGRAF 5 control software now supports Advantech's popular ADAM-5550 Programmable Automation Controller (PAC).

The ADAM-5550 PAC is ideal for control tasks that require the computing power of an Industrial PC and the robustness of a PLC.



About the ADAM-5550 PAC

The ADAM-5550 has an AMD Geode GX533 CPU and features such as deterministic I/O, real-time clock, watchdog timer, 128 MB DDR SDRAM and 1 MB battery back-up memory. It also features a built-in VGA port for direct connection to a display for integrated HMI.

Dual Ethernet ports provide redundant Ethernet connection or separated network connections for security.

Users can develop their control systems in a familiar environment since the ADAM-5550 with ISaGRAF features the 5 standard IEC 61131-3 programming languages, the standard IEC 61499 programming language, as well as Flow Chart in CE 5.0.

The ADAM-5550 supports a wide range of the ADAM-5000 I/O modules including digital I/O and analog I/O modules.

[Contact us for more information on getting an ADAM-5550 with ISaGRAF](#)

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tech feature

Tech Note #7 - Execution Model

Overview

An Execution Model represents parts included in a function block execution mechanism. Figure 1 shows these parts of a execution mechanism. Each function block execution follows a specific mechanism.

A function block is a functional unit of software comprising an individual instance or copy within a resource. The algorithms contained within a function block are hidden from the outside of the function block and are scheduled according to the Execution Control Chart state machine (ECC).

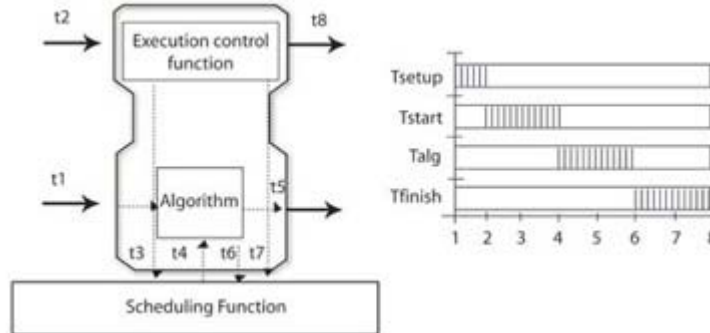


Figure 1: IEC 61499 Execution Model

Event input (t2) and event output (t8) are used to synchronize function blocks within an application and to schedule the algorithms within the function block.

Data input (t1) and data output (t5) are the interface with the external of the function block since internal data is hidden. The data may be part of the algorithms and may also be state information for the ECC.

Function blocks can be created by defining their ECC, input and output signals, and programming their algorithms. These function blocks are called Basic function block. The ECC is a state machine processing events and scheduling algorithms. The ECC defines the behavior of the function block upon receiving events. The algorithms operate on internal variable values, input values, and output values. Each Basic function block can run on any resource.

In a Basic function block, timing is important... [read the full tech note](#) (.pdf)

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