



PRESS RELEASE

Section Industrial automation
Communication processors
High performance data networks
On-board real time systems

Key words Speed / transmission security
Sophisticated processing, universal

Subject : An ISaGRAF automaton processor integrated in the real time communication co-processor Arion - 100

CIO Informatique Industrielle and Arion Entreprise combine their know-how to present a new solution for industrial automation with ISaGRAF

In the framework of a technical partnership between CIO Informatique Industrielle (*), ICS Triplex ISaGRAF and Arion Entreprise, these three companies will pool their respective know-how in real time on-board systems to develop a solution for industrial automation enabling companies to write ISaGRAF real time distributed applications, and load them into an Arion Network board (PCI and PMC formats will be supported)

The objective of this new product is two-fold. Firstly, to simplify the development and the implementation of any automatic architecture on PC/automoton/network/ISaGRAF platforms, and secondly to guarantee real time, distributed functionality under all circumstances.

The CIO/Arion solution is based upon the integration of a dedicated, ISaGRAF automaton control processor within the Arion-100 co-processor. The processor is equipped with 512Kb of flash memory to run the ISaGRAF automaton control software and can support up to a further 1Mb of memory for application software (TIC). All input / output transit via the Arion-Network distributed database so as to share all global parameters and variables amongst all the automatons connected to the system. Hence, the application has access to all the resources and properties of the Arion-Network in terms of dating, synchronisation, and guarantee of data integrity

“ With this completely new configuration we are providing complete solutions to the requirements and imperatives that confront developers and users of automated industrial architectures, solutions which in any case remain weighty and delicate to implement ”
underlines Christian Garnier, Technical Director and General Manager co-founder of Arion Entreprise.

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Founded in 1991 CIO Indformatique Industrielle is a value added distributor of ISaGRAF (ICS Triplex ISaGRAF), workshop for industrial automation applications on open systems architectures, renowned specialist in industrial computer applications / real time/ on-board systems with expertise in real time OS (OS9, QNX, VxWorks), real time extensions (RTX) or Linux (On-board Linux , real time extensions RTAI, RTLinux, Xenomai).

Reminder of the main imperatives of distributed automated system architectures

- 1) To have a CPU dedicated to automatic functioning : specific computers are used running real time operating systems and controlling their own Input / Output
- 2) To have several CPUs sharing common information : brought about by the development of specific communication layers.
- 3) To have a real time communication system that supports automatic functioning. Solutions do exist, and are based either on field networks (FIP for example), or on open solutions such as Ethernet which is not real time and uses CPU resources extensively. Other solutions exist, but require specific development
- 4) To have a backup system both for the application and the communication backbone. Once again this usually requires specific development.

In short :

Arion Entreprise :

Founded in mid 2003 by two engineers experts in real time computer techniques and system security for railway transport systems

Arion Entreprise is a European pioneer for on-board micro-computer applications based on the integration of Programmable Electronic Components (SOPC).

Arion Entreprise also innovates in the domain of real time communication between computers and has developed a new generation of universal communication co-processors - range Arion

- bringing speed, transmission security, intelligence (sophisticated processing, virtual MMU), general purpose and transparency.....2006 marks the introduction of the Arion-100.

ICS Triplex ISaGRAF :

ICS Triplex ISaGRAF (Group ICS Triplex) is the world leader in " Open Control " with more than 470 000 licences sold throughout the world The ISaGRAF technology is an open system, portable and can be installed in a wide variety of hardware architectures. It can be used in all market segments, from traditional automation to on-board control and fully distributed Thanks to its conformity to the norms IEC 61131-3 and also IEC 61499, ISaGRAF permits the standardisation of automation systems integration.

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