MAG_NDA
NETWORK DISTRIBUTED ARCHITECTURE

MAG-NDA

DESCRIPTION

MAGALI is a standalone system providing all real time and post processing required functions.

NDA architecture is an extension designed to distribute the different MAGALI Real Time functions to several systems connected to a network. Thus, each system works synchronously on a dedicated task : acquisition / generation, monitoring, visualization, scheduling.

KEY FEATURES

- Acquisition/generation of **numerous formats** : telemetry, bus MIL-STD-1553, ARINC-429, analogue, serial, Ethernet, discrete, counter, specific....
- **Balance of Acquisition/generation** loading on several processors.
- Monitoring and real time follow up by **several users**
- **Automatic sources synchronization**, whatever the format and the platform (Windows, Linux, UNIX, VxWorks, …).
- **Test configuration** separately from a supervision station

SPECIFICATIONS

SAM Acquisition

Function	Data Acquisition Station
Type	Industrial rack, desktop PC, compact.
Operating system	Windows, VxWorks, Linux, UNIX, VXI.
Bus	PCI, Compact PCI, PXI, VME.
Input/output types	Analogue, digital, counters, frequency, telemetry PCM, IRIG, Daniel, CE83, CCSDS, bus 1553, ARINC 429, RS232 / RS422, GPIB / IEEE488, Ethernet, …

SPE Monitoring and follow-up

Function	Test Monitoring Station
Type	Desktop PC or rack, workstation.
Operating system	Windows , Linux, UNIX, VXI.

SVM Visualization

Function	Data Visualization Station
Type	Desktop PC or rack, workstation.
Operating system	Windows, Linux, UNIX, VXI.

SSQ Scheduler (optional)

Function	Synchronization of the system with external events or timer, with high accuracy.
Type	Industrial rack, desktop PC, compact.
Operating system	VxWorks, real time operating systems.
Bus	PCI, Compact PCI, PXI, VME.
Input/output types	Analog, digital, RS232 / RS422 bus, GPIB / IEEE488.
Communication	MAGALI Interface Network.

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Acquisition Distributed on several stations
When the acquisition constraints are too heavy, streams to acquire can be distributed on several stations. The monitoring system thus, controls all the acquisition systems as a unique one.

Visualization distributed on several stations
In this configuration, the acquisition station has all the functions of a standalone system : acquisition, monitoring, real-time visualization, post processing. The other stations only are real-time visualization stations.

ORDERING INFORMATION

MAGALI/SPE	Magali software with Network supervision option
MAG_SAM/RT	Run-time for front-end (black-box station)
MAG_SVM/RT	MAGALI client software for Real-Time
MAG_SVM/PP	MAGALI client software for Real-Time and Post-Processing

Specifications are subject to change. Please, verify the latest specifications prior order.

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