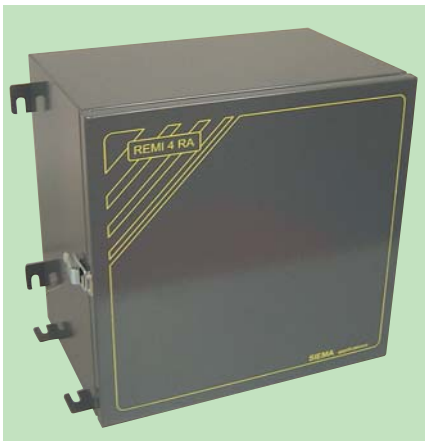# SIAM ST2

Event Monitoring System

Archive list

The requirement

To have a system designed specially for the railway, using a modern and powerful data-processing structure. This system has to offer several kinds of information and possibilities to organize an efficient maintenance.

The goal of this Event Monitoring System is to display dated events and produce alarms in order to take optimum action for the maintenance of railway equipment, whether geographically close or distant.

The SIEMA Applications answer

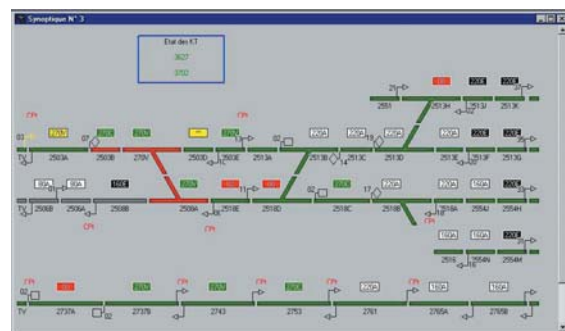SIEMA Application proposes the Event Monitoring System SIAM ST2. This system allows functions here after:

· To monitor equipment along the railway tracks. For example signaling and telecommunication systems. In case of detected default, the SIAM ST2 send an alarm to an operator

· To show a synoptic in real time or in batch mode (play back mode). This graph shows data for maintenance such as track circuit or speed instructions

· To analyse file events filtered by type of operator

· To generate and to send alarms to external equipments. Alarms can be forwarded on digital output

Real time track circuit monitoring
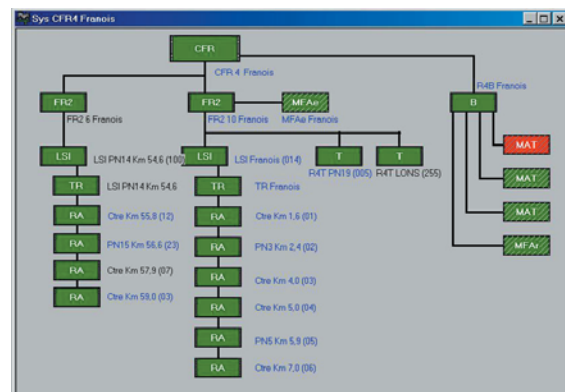
Material architecture monitoring

Recorder function


Setting and testing department
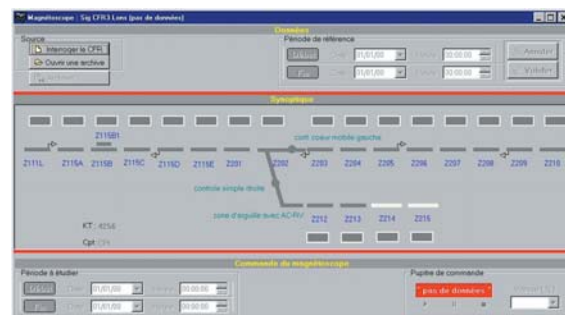
Features

- Visualizes alarms and selectively distributes them to the interested users
- Identifies informations by geographical sectors, sectors of operation and families of monitored elements (Signalling, Telecom, Energy)
- Identifies and time-stamps all events and alarms generated (hierarchical system of alarms)
- Records events and alarms for exploitation (analysis, comparison, graphic visualization with or without play back function, ...)
- Allows modification of parameters on line with automatic diffusion into the system after validation
- Permits an unlimited number of user by using a browser and a TCP/IP network
- Captures data with dedicated local controller adapted to the railway environment
- Supply information to all external services in charge of monitoring maintenance

Technical characteristics

- Centralization computer can manage up to 255 local controllers
- Allows to treat up to 36000 events per hour for a centralization computer
- Each local controller can manage 64 digital input, 16 analogue input, 16 digital output, 128 counting data, specific interface...
- A large scale of Network interface (RS232, JBUS, IP, ...)

IN BRIEF

- Optimises maintenance works and site visits.
- Improves quality of maintenance by the permanent monitoring of all the installation and the possibility to cross-check events and alarms between sites
- Modular architecture allows additional facilities for a large scale of application
- Operates with all types of support.

COMPUTERIZED MAINTENANCE HELP SYSTEM
SIAM ST2
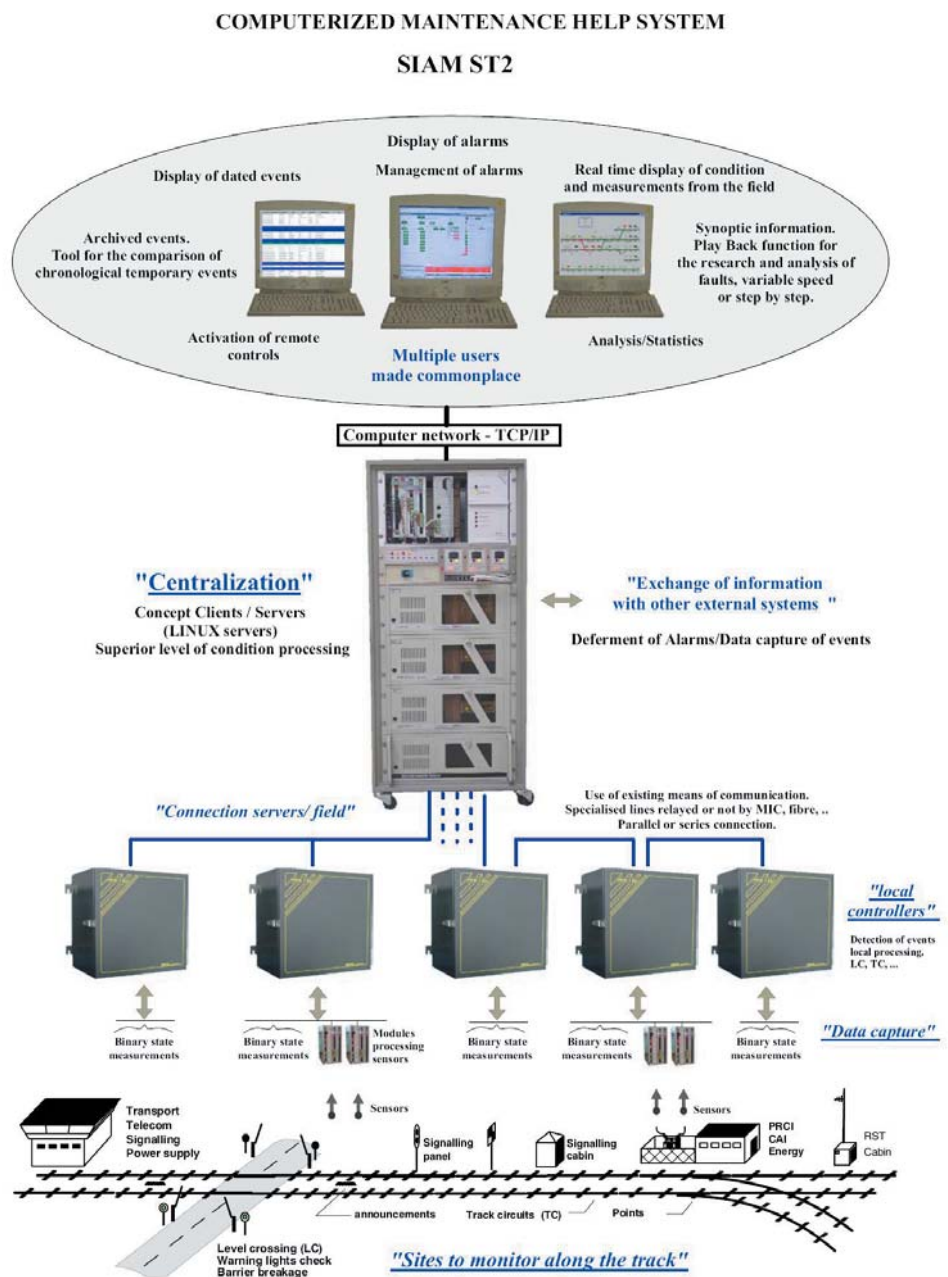
References:

France:
- High speed line: LGV
  Paris-Lyon-Marseille (LN1-3-4), LGV
  Paris-Strasbourg (LGV Est)
- Most of regions in France:
  Paris, Lyon, Marseille, Chambery, Dijon,
  Metz, Nancy, Bordeaux, Toulouse,
  Reims, Lille, Renne, Strasbourg,
  Amiens, Montpellier

More than 40 installations in France

More than 2000 sites monitored

More than 70000 point of mesure

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