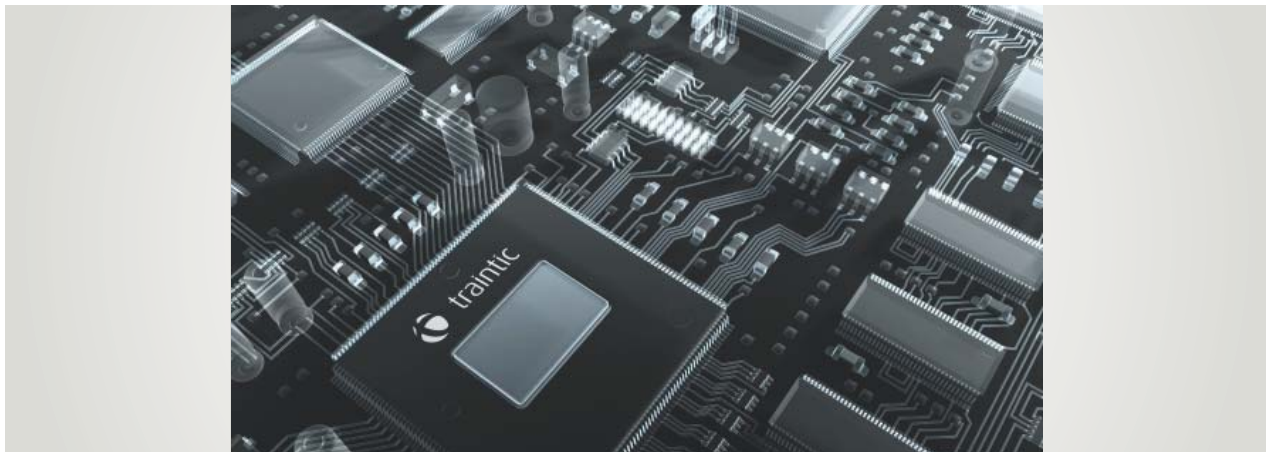


- These display, configure and analyse the content of the log files and items of the components and systems developed by TRAINTIC.
- The display, configuration and analysis of the files can be completely configured by the user.



DESCRIPTION

As a supplementary service which provides an additional value to TRAINTIC's products, we provide the appropriate analysis-diagnosis tool with each system. These are all the applications created by TRAINTIC for rapid, simple and user friendly **configuration, displaying and analysis** of the files created in the systems developed by TRAINTIC: COSMOS, ORION, ATMS, HERMES, etc.

These are standard tools created for the analysis and studying of the files such as the analysis of the log stored by the system for example. TRAINTIC also develops made to measure analysis-diagnosis tools based on the customer's specific requirements.

CHARACTERISTICS

LogViewer:

This is a tool used to display train events. It displays various representations (views) of the log files data, which represents the information in the form of both tables and graphs.

Using the LogViewer it is possible to:

- Display, group and order the events according to various criteria: temporary, repetitions, etc.
- The variables relating to the events can be displayed both by means of graphs and tables.
- Additional values relating to the variable can be presented if said information is available.
- Exporting to CSV format is possible for display using a commercial tool (Excel, etc.).

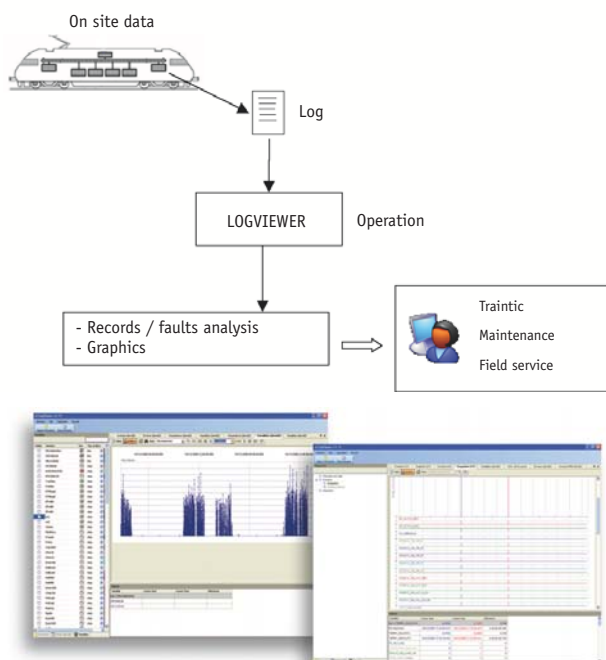
It is also possible to filter the downloaded information:

- Personalised filters: date, identifier, code, text...
- Complex filters.
- Save filters.

With LogViewer it is also possible to obtain information regarding the performance of the train units:

- It is possible to know the faults that arise by: unit, system, equipment.
- It facilitates the deduction of fault patterns.
- It facilitates recorded information analysis: snapshot.
- It permits train logic application deputation with regards to the events activation.

Graphic 1. LogViewer operation scheme.

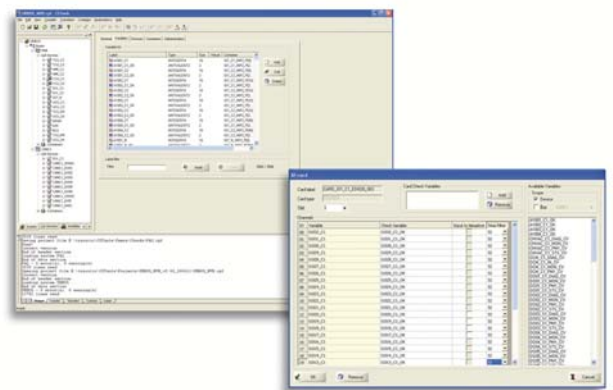


CSTools:

CSTools is a graphic tool developed by TRAIINTIC to configure and program the developed systems, such as COSMOS, ORION, ATMS, HERMES, etc. Using this interface, the user creates a data base with the configuration information, being able to check coherence and to create configuration files. The programme can automatically complete part of the configuration information, appropriately defining the compilation parameters.

It is also possible to create specific configuration files for the items making up the various systems developed by TRAIINTIC, to export Excel tables data, and to create a train control code for control equipment. All of the above is automated from a single graphical interface.

Graphic 2. Graphical interface CSTools.



Configurator:

Configurator is a PC application tool which provides, within a single management tool, the uploading and downloading of configuration files for the CSTools software tool, used on all existing components of TRAIINTIC systems.

Graphic 3. Operation scheme Configurator.

