MDS Tool

Host-PC software

The MDS (Maintenance & Diagnostic Solution) is a host-PC software designed to be compliant with STRATON embedded-software applications. This software utility tool enables railway integrators and operators to maintain Leroy Automation's BRIO and RIOM devices, and analyze all the mission-data recorded by them or by the tool itself, connected to them. It helps to diagnose and solve any vehicle problems in Train Control, Communication and Management Systems.

MAIN FEATURES

- **System & Device Maintenance :**
- Multi-device management,
- Software diagnosis & upgrade,
- Variables monitoring,
- Event & log files management: upload & conversion.

- **On Line Analysis:**
- Live visualization of any Straton variable,
- Source time-stamping for a subset of variables.

- **Off Line Analysis:**
- Logs analysis: curve view,
- Events analysis: Filtering, bar graph & curve views

SYSTEM & DEVICE MAINTENANCE

- **System view :**
- Device list update & view.

- **Device management :**
- Communication check,
- Project maintenance: check, upgrade,
- Firmware maintenance: check, upgrade,
- Internal variables read & write.

- **Device Event & Log files management :**
- Remote file list, upload & remove,
- Remote memory usage visualization by a gauge,
- Local file list, and treatment conversion.

ON LINE ANALYSIS

Two modes are available:

- Live visualization & recording of any Straton variable,
- Live streaming & recording of any variable with source time-stamping at device cycle-time precision.

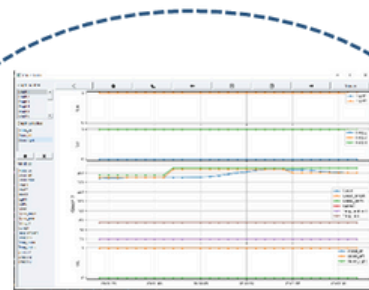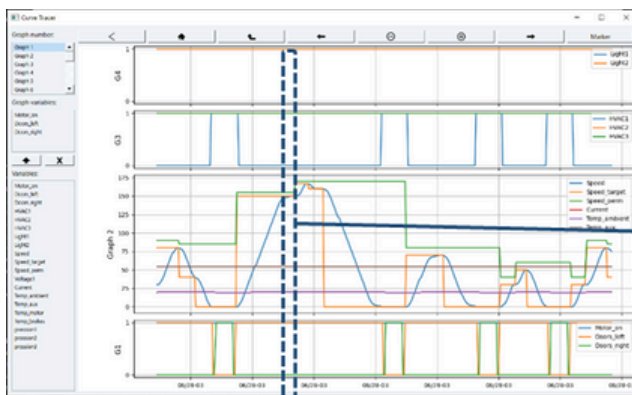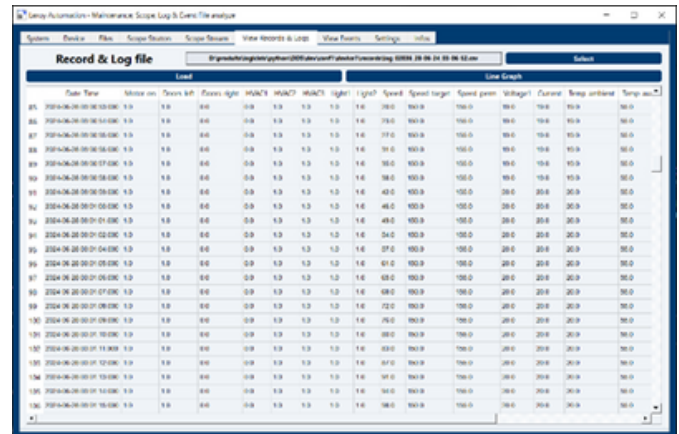All data can be recorded in files stored onto the Host-PC.

OFF LINE ANALYSIS: LOG FILES

Device log files uploaded on the PC or On Line data recorded in PC files can be analyzed: data can be displayed numerically or graphically.

- Numerical display: a table is available with all file data.
- Graphical display: multi graphic, data selection for each graphic, zoom features with milliseconds resolution and data marker.

OFF LINE ANALYSIS: EVENT FILES

Device Event files uploaded on the PC can be analyzed:
Main event features:
- Several list of event managed: one per device or function,
- Associated to each event: up to 24 context values,
- Previous and after event context values are recorded: from 3s before to 2s after the event, every second.

Events can be displayed numerically or graphically, with a filtering tool for any file parameter and any combination of parameters:

- Numerical display: a table is available with all file data,
- Graphical displays, with zoom features:
    - Event occurrences analysis: bar graph view,
    - Event curve analysis: multi graphic,
    data selection for each graphic, time resolution, data marker.

More information at www.leroy-automation.com - www.agon-electronics.com