

STANDALONE SOFTWARE

Post analysis of CANopen trace recordings

The CANopen Logxaminer by Esacademy (Germany) evaluates CANopen trace recordings. It supports common file formats used by recording tools from Peak, Vector, and Esacademy.

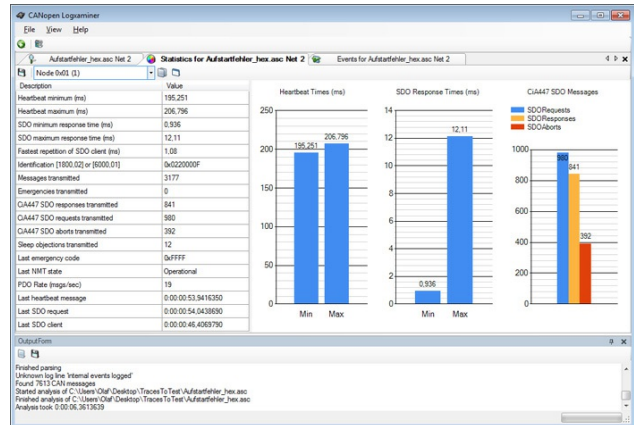
When it comes to long-time system monitoring or testing, a typical approach is to generate long-term logs containing CANopen traffic data covering multiple hours or sometimes even days. However, often the unsolved question is: how do I efficiently examine a log file with possibly hundreds of thousands of CANopen messages? A typical approach is to load the log file into a spreadsheet program and do manual searches, color highlighting, and sometimes run custom scripts or macros to help locating issues.

The Logxaminer helps with the post analysis of such recordings. It creates statistics and event lists on a configurable level of detail. This shortens the time to get results out of CANopen log recordings. Statistics are not only produced globally; there are dedicated statistic views for each node present on the network during the recording.

Such per-node statistics include:

- Minimum/maximum heartbeat time,
- Minimum/maximum SDO response time,
- Number of bootups,
- Number of emergencies transmitted,
- PDO message rate.

The software not only produces statistics, it also generates an event listing with all important system events. The event listing filters information from the log including: Node ID assignment (by LSS), boot-ups (expected/unexpected), emergencies, SDO aborts, and unexpected messages (out of order sequences). If a network is not running stably, then the system event listing highlights important clues as to what went wrong where.



The Logxaminer is available for € 380 (Photo: Esacademy)