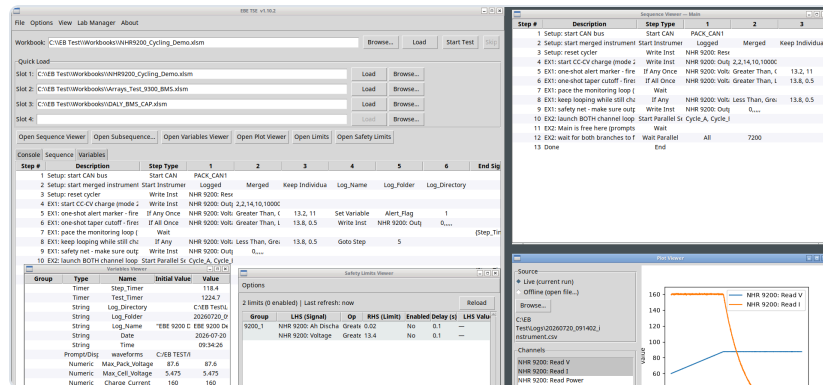


TEST EXECUTIVE & RUNTIME

EBE Test — the test executive

EBE Test loads your workbook, connects to your instruments and executes your sequences with full engineer visibility and control — over CAN, VISA and serial, with instruments from any supplier in the same test.



EBE Test v1.10 — main window with sequence viewer, variables, safety limits and live plot during an NHR 9300 cycling run

What it does

Execution

- Loads sequences, signals, variables, instrument configs and limits from one structured workbook
- Quick-load slots for the workbooks a station runs most
- Preflight checks before a run; pause, resume, skip and abort during it
- Subsequences, looping and Goto for cycling, soak and taper logic
- **If Any / If All** multi-condition steps, one-shot triggers, timed and condition-based waits
- Parallel sequence branches with wait-for-any / wait-for-all joins

Instruments & data

- VISA (GPIB / USB / LAN / serial), CAN and CAN FD (NI-XNET, Vector, DBC), SCPI over TCP, Modbus, NI DAQmx
- Array variables for cell voltages, temperatures and module data
- Continuous instrument logging with per-sequence tagging and configurable rates; CSV output
- Live viewers: sequence, variables, plot, limits, safety limits, arrays and camera
- Text alerts on failure for unattended and overnight runs
- Station agent streams status to Lab Manager over WebSocket

“The most dangerous test-software failure is not always a crashed application. It may be an application that completes normally while recording the wrong value.”

Per-step instrument logs and continuous limit checking are how EBE Test makes failures visible instead of silent.

In the suite

EBE Test
Runtime

Sequence Editor
authors the workbook
EBE Test runs

Prompt Builder
displays run inside
EBE Test

Lab Manager
receives live status
from every station

EB Playback
replays EBE Test logs
and video

At a glance

- Step-by-step execution with live logging, pause / resume, skip and abort
- Parallel branches for heartbeats, watchdogs and background monitors
- Continuous limit and safety-limit checking against live signals
- Operator prompts and displays from Prompt Builder run in place
- Reports status to Lab Manager; logs replay in EB Playback