



SCADA FEST

ORLANDO | 2026

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VTscada
Trihedral
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The Debugger – Crush Bugs Like a Final Boss

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Source Debugger

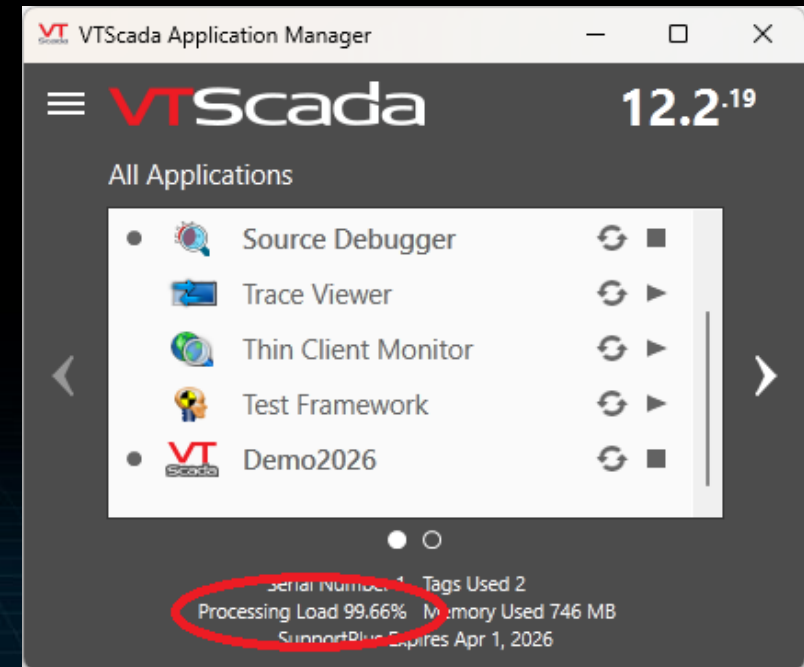
Take a deep dive into the Source Debugger – look inside your running SCADA system to troubleshoot problems and identify performance issues early.

- Essential for script coders.
- Also valuable for tinkerers.
 - See what is going on under the hood.
 - Collect diagnostics for VTScada support.



Why use the Source Debugger?

- Find out why code is not behaving as expected.
 - Sometimes: Work-around code problems.
- Identify memory leaks in your code.
- Use dumps to investigate problems that only happen on site.
- See what is causing high Processing Load.





Demonstration



When to use what?

Problem	Tool(s)
Memory Leak	Module and Structure lists
Frozen application	Threads list and Execution History
High Processing Load / Slow Performance	Profiler <ul style="list-style-type: none">• Collect an “idle” profile – e.g. 60s• Start profile, do one slow action, stop profile (do not use a timed profile).• Write down what you did.
Crash	Execution History
Unexpected behavior	Breakpoints, variable lists, watches, etc...



Thank you for attending this session!

- Fill out the 2-question feedback survey via the App! *Ukova*
- Especially if you need a Continuing Education Credit or Professional Development Hours certificate.
- Don't have the app, fill out the paper form included in your conference kit and hand into Natasha.

SAVE THE DATE FOR SCADAFEST 2027!
MARCH 8-12, 2027 | ORLANDO, FL