

CLEARED
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Department of War
OFFICE OF PREPUBLICATION AND SECURITY REVIEW

SLIDES ONLY
NO SCRIPT PROVIDED

AWTS ELITE Enhancements

ELITE 2.11.103 & 2.12.006

Safer. Faster. Smarter. Built for today's DOW requirements

Ray Doromal - TPS Engineer

Eclipse International

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Why Upgrade?

The latest versions of ELITE possess ground-up modernizations — over 50 new features, updates, and fixes across security, stability, and productivity.



Hardened

Modern security: ASLR, DEP, CFG, SafeSEH, Spectre mitigations — meets DOW requirements



Reliable

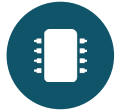
Memory & threading fixes, plus a new Watchdog that protects your analyzer



Productive

Modern IDE: auto-completion, Quick Watch debugging, dark theme, tab bar

Security & Compliance



Built with Visual Studio 2022, ISO C++17

Modern toolchain and hardened CRT — known to meet the DOW requirements.



Full exploit mitigations enabled

ASLR, DEP, Control Flow Guard, SafeSEH, stack protection (/GS), and Spectre mitigations.



Every Eclipse module digitally signed

Passes Navy integrity checks and Windows Smart App Control — including strict Special Operation Site policies .

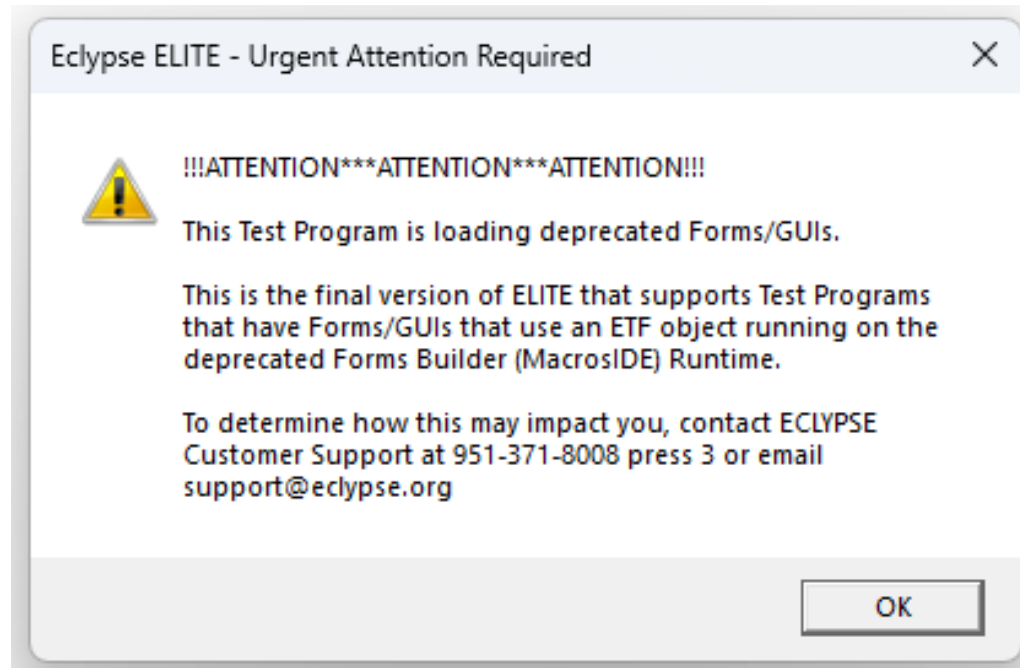


Safer third-party components

zlib and minizip updated for SafeSEH compatibility; legacy help library updated.

Note: ELITE 2.11.1nn omits DEP & Spectre mitigations only to support the deprecated Forms Builder Runtime.

2.11.103 - Deprecated Forms Builder Warning



Stability



Memory problems fixed

Buffer overruns/overflows and leaked objects found via address sanitizer and Windows Fail Fast.



Multithreading issues resolved

Computer-specific unexpected behavior eliminated.



Unsafe input caught early

VARF/VARI/VARS/VARD formats validated — prevents hard-to-trace Fail Fast crashes.



16,384 samples per test point

Efficient memory handling where old ELITE would hang or malfunction on large loops.



NEW ELITEWatchdog

If ELITE ever terminates unexpectedly, Watchdog:

- Resets the analyzer automatically
- Reports the issue & guides the user
- Captures last known state — test file, line, and code
- Logs to C:\ELITE Files\WatchdogLog

Modernized Development Environment



Tab Bar for Open Files

See, switch, and close files at a glance.



Click-Margin Breakpoints

Set or clear F9 breakpoints with one click next to the line number.



Safer Stepping (F10)

No more malfunctions from stepping into binary or CNZ files, as old ELITE did.



Auto-Completion & Call Tips

Full ETL language support in the source editor.



Folding & Auto-Indent

Cleaner, more readable test code.



Dark & Light Themes

Choose your look in Developer Mode.



Quick Watch Window

Watch variable values live at breakpoints and while stepping — a first for ELITE.



Show ID and Address

New View option annotates IDs of addresses (and vice versa) during F11 syntax checks.



Comment Shortcuts

Ctrl+Q (ETL), Ctrl+E (VBScript), Ctrl+R (JScript), Ctrl+W to uncomment.

Expanded Hardware Support



Direct USB analyzer interface

Talk to the Eclipse Analyzer over a Plug & Play USB interface — no COM port configuration, ever.



Know your connection from code

New `ETL_SYS.HW.IsUSBPort` and `ETL_SYS.HW.IsSerialPort` variables report the active link.



New IO firmware

Better performance plus new and enhanced low-level testing features.



Faster HIP & CAP alignment

Alignment no longer requests current measurements.

Dozens of Everyday Improvements



Smarter Open & Save

Remembers the last folder separately per file type — no more saving to the wrong place.



Status Bar That Speaks

Color-coded states: RUNNING (green), BREAK/PAUSED (brown), DMU Active (orange), clear DEV/OP modes.



Better Results Log

Print Preview support, Ctrl+F now highlights matches instantly, and no more ReadOnly flicker slowing touchscreens.



Complete Test Records

MBE, MPE, and MTE information is printed even when LOG mode is canceled.



Self-Test Guidance

Prompts to remove the Verify 2 tool when the Verify Test completes.



Long-Standing Bugs Fixed

DEFFILE, CNP works at last; Ctrl+Y (Redo) fixed; Manual Mode can no longer harm the analyzer.

ELITE Upgrade Roadmap

Upgrade	Highlights
2.09.001	• AGM Windows 7 compatibility & security compliance • HTA based message box replacing VBS based messaged box
2.10.000	• Windows 10 SHB 1809 compatibility • Improved Self-Test and Self-Learn • SI004 - time delay relay bugs remediated
2.11.001	• Improved ELITE functionality with several new VBScript/JScript routines and ELITE system variables • New IO firmware improves performance and low-level testing
2.11.101	• Microsoft Visual C++ 2015-2022 redistributable and MFC integrated into ELITE • USB communication now supported with integrated drivers on installation • New ELITE hotkeys for commenting, uncommenting, and setting breakpoints in code • Alignment no longer requires current reading, improves HIP and CAP performance
2.11.103	• Improved program crash logging with ELITEWatchdog
2.12.006	• Legacy forms builder removed, maintains all other upgrades from 2.11.001+

Coming Soon - ELITE 3



Python Enabled Scripting

Python 3.14 built directly into ELITE 3. Addresses upcoming VBScript depreciation while providing modern scripting capability.



WebView2 included

Fixed-version Microsoft WebView2 ships with ELITE for LINK,PageView and future TPS GUI (replacing HTA).

Upgrade Today - Contact Us



www.Eclipse.org



1-951-371-8008



support@eclipse.org



341 S. Maple St. Corona, CA 92878
United States of America