

# kDiagnostics Design Suite ValidationAssistant

## Overview

For designers of 32-bit embedded systems who must deliver high quality quickly and at low cost, Koizio's kDiagnostics® Design Suite is a comprehensive, configurable, and cost-effective validation suite that provides an extensible and reusable solution.

ValidationAssistant™ is a flexible user interface targeted to the needs of engineering teams as they complete design validation under increasing schedule and resource pressures. You gain visibility into the test and diagnostic process, maintaining hierarchical visual lists of test methods and suites, flexibly organized by component, test suite, low-level method, or test type. You can configure methods and suites, initiate and control execution, and instantly see status reports.

### FLEXIBLE CONNECTIVITY OPTIONS

All your target platforms running kDiagnostics can be connected to ValidationAssistant, through any network connection, and you can access any target platform remotely across the network. Validate boards in your contract manufacturer, located on another continent, from your office. You can switch from target to target, where the targets are of the same or different types.

### VISUALIZE YOUR TESTING PROCESS – HIGH & LOW LEVEL

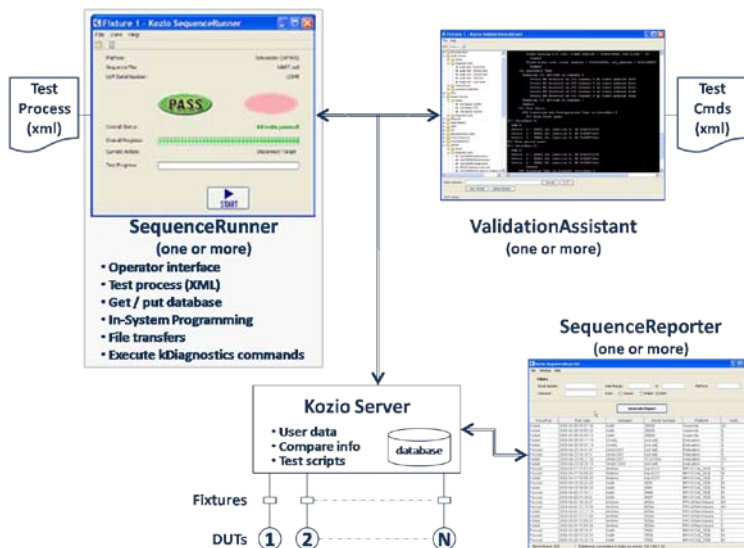
Your testing process is defined in a simple XML file that you can distribute, enforcing common test practices across sites and with your contract manufacturer. Loading a new command definitions file effectively loads a new process; there's no need to learn a different series of commands, options and variables, or a new user interface.

### EASY TO CUSTOMIZE FOR FLEXIBLE DEBUGGING

ValidationAssistant logs all host-to-target and target-to-host communications. You can access, in real-time, results immediately after running tests complete. When tests fail, interactively develop short test scripts using these failing results, and quickly iterate through small tests and sequences to pinpoint the problem's causal mechanism.

### kDiagnostics Design Suite

The complete Koizio solution is a suite of software tools for board diagnostics, binary image downloading, in-system programming, automated board testing, and power-on self-test. The Koizio architecture has two main components: a



target diagnostics application and one or more host applications.

## Features

- Ease of use for new or infrequent users; a power tool for experienced practitioners
- Remote access to any target-resident kDiagnostics across serial, USB, and Ethernet
- Simultaneously connect to multiple targets
- Remotely download binary images and program devices
- Easily customized; modify existing test suites, options and configurations – or add new ones

## Benefits

- Eliminate development of custom test code that's not mission-critical to application success
- Remote debugging connection saves trips across the campus – or around the world
- Common non-intrusive, test-focused user interface makes troubleshooting power available to all
- Superior visibility into the entire design validation and testing process
- Real-time test execution and control reduces validation time
- Increased predictability: hardware status always at your fingertips

## Contact Information

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