V E R I F I D E

Acquire. Analyze. Adapt. Advance.

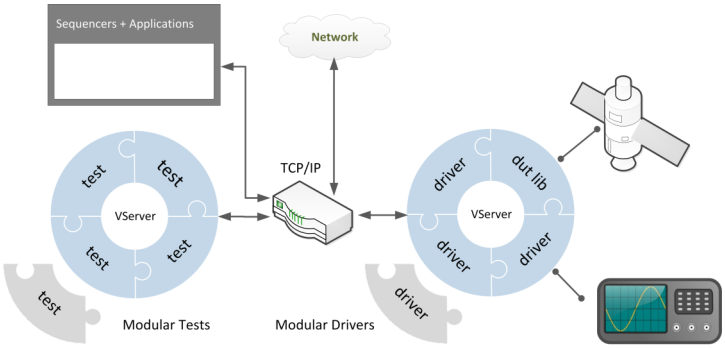
Test Automation

Simplified.

Modular Architecture

Command and control tests, drivers, and components across the network; re-use and share them across projects and systems.

Isolated interfaces allow you to easily swap instruments without changing test code. Plus, you have full control of the code that you plug into our framework!

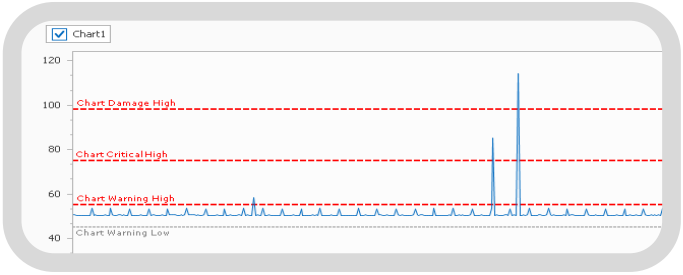


Development

Write tests in the language you prefer. We have sample code and videos to get you started.

Monitoring

Have full traceability of your execution environment with activity logging, data logging and strip charts. Data mine logs for faster troubleshooting.



Events + Alarms

Protect your device under test with audible alarms and events that can automatically perform safety shutdowns with no operator intervention needed.

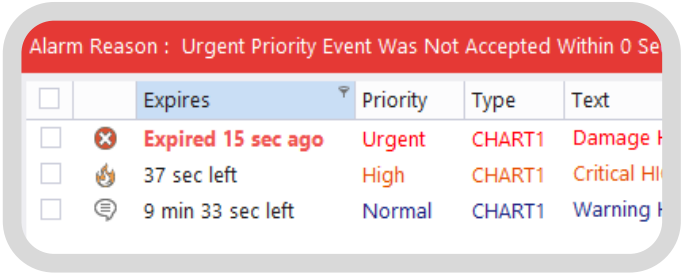
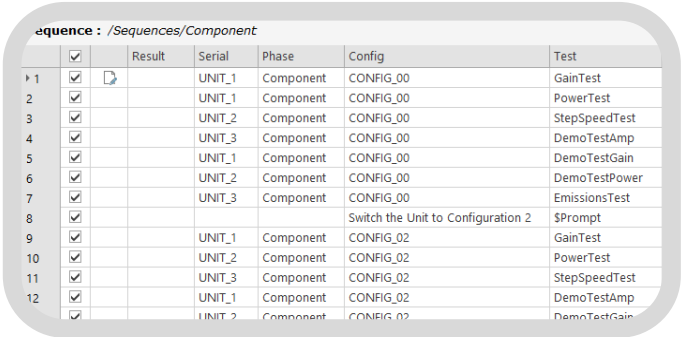


Table-Driven Testing

Simplify the setup of test sequences with our unique table-driven approach. Easily create, edit, and update sequences and test parameters in Excel



www.verifide.com

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Modular Architecture

Modern test systems need to be modular; they must handle the **constant changes** in requirements, devices and instruments, else these systems will be subject to extremely high recurring costs . When hardware goes obsolete or needs to be swapped, what should be a simple task of replacing a driver often tends to be a major rework of test code.

Modularity alone is not sufficient; interfaces need to be well isolated such that there is minimal or no dependency between the components. Absent isolation, you'd be better off without the overhead of designing a modular system.

Verifide provides a modular and distributed (TCP) architecture that is based on servers and components. Our framework allows you to plug-in your own **in-house** developed components into our servers to provide functionality for your system (eg. Drivers, Tests, DUT Interfaces).

You can run any number of servers with any number of components on a system and your tests and can command and control them whether they are local or remote across the network.

At the end of the day, this modular architecture lets you build systems quicker and save a lot of time by being able to reuse and share components across projects.

Development

There are many language and tool choices for developing tests; Each have their pros and cons and even more importantly, your team will have preferences in one or more of these platforms.

With Verifide, you do not have to forego your language of choice to get the power of our framework. Our software is highly accessible via programmatic API's that can be used in LabVIEW, C#, C++, MatLab, VEE as well as scripting in Python.

Monitoring

High technology devices in fields from aerospace to automotive and semiconductor require a high level of traceability and **protection** for your device under test. Failures can and do happen in the course of testing, and requires figuring out what did or didn't go wrong.

Verifide provides comprehensive activity and data logging capabilities; you can go back months or years and search for data in log files to find problems during testing. Strip charting with customizable limits and triggers allows data logging that can be correlated to test data (eg. temp vs measured data).

Events + Alarms

When things go wrong in the course of testing, it may or may not be noticed by the operator (eg. error log message) and can lead to DUT damage or other hazard. Higher levels of protection require that **safety** be automated as much as possible with the least amount of human intervention;

With Verifide's framework, you get event logging and audible alarm capabilities to draw the immediate attention of operators. Our Events management can require that operators respond or acknowledge within timeouts, else the framework can automatically execute a safety script to put your device and test system in a safe state.

Table-Driven Testing

NI TestStand and other test executives work well for setting up tests and Verifide is compatible with these executives as well. However, in more complex environments with thousands of tests, limits, and parameters to manage, the task of creating (and iterating) sequences becomes labor intensive and **repetitive**.

Verifide introduces a table-driven testing concept where sequences, parameters, and limits are all specified in tables that can also be edited with Excel. This design also allows you to modularize test settings for re-use across devices and projects.