



WorkloadIntelligence™

Analytics Application

Key Features

- Detailed analytics and synchronization capability with the potential to calculate statistics on over 25 different workload trace attributes
- Chart wizards to create charts of different types (such as scatter plots and histograms); with numerous predefined or user-defined parameters (such as time, latency, LBA, I/O size, CPU, and so on); and with various gradient colors to easily visualize data points and comparisons
- The versatility to display canvases of multiple charts in one window, separate windows, or a combined window
- Ingests multiple file types, such as Linux block trace files; OakGate SVF Pro/Enduro-generated files; and any generic, time-based, text-based files
- Infinite zoom capability on performance charts
- A list of process identifiers (PIDs)
- The ability to take a snapshot of a time range of PIDs and their statistics.
- The flexibility to merge multiple traces, and analyze them as individual traces or a combined trace
- The ability to save charts as PNG files and chart data as CSV files
- A light and dark mode user interface

The Teledyne LeCroy WorkloadIntelligence Analytics application provides deep insight into production workloads to optimize data center infrastructure and applications.

The Analytics application, part of the Teledyne Lecroy WorkloadIntelligence™ software suite, enables users to optimize their infrastructure and applications in high-performance, hyperscale environments through the analysis of imported workload traces (such as Linux block layer I/O traces) from data center backend servers.

When operating the Analytics application, users can review and analyze I/O data and process identifiers (PIDs); plot charts with an extensive selection of parameters for reads, writes, and discard (trim) I/Os; evaluate advanced performance charts, which have detailed analytics and synchronization capabilities; and analyze and generate replay files for SSD analysis and comparative studies.

Provides High-Performance Charts for Deep Analysis

The Analytics dashboard enables the user to create canvases of built-in or custom high-performance charts of various parameters. These charts can represent a range of billions of data points to a single data point, depending on the selected time range. This remarkable charting flexibility and depth provides an extraordinary insight into workload data for deep workload analytics, leading to well-informed decisions for SSD development and managing data center technology.

Supports Multiple Types of Input Files

- Linux block trace file – a binary file generated by the Linux blktrace tool (*.blktrace)
- Linux block parse file – a text file generated by the Linux blkparse tool (*.blkparse)
- OakGate universal analytics file – a binary output file generated by the Teledyne Lecroy OakGate SVF Pro/Enduro storage validation software from an exerciser run, an analyzer capture, or an output replay file (*.oak)
- Generic time-based file – a generic, time-based, text-based file set consisting of a column schema file (*.json) and its payload data (a text-based file, such as a *.csv file)

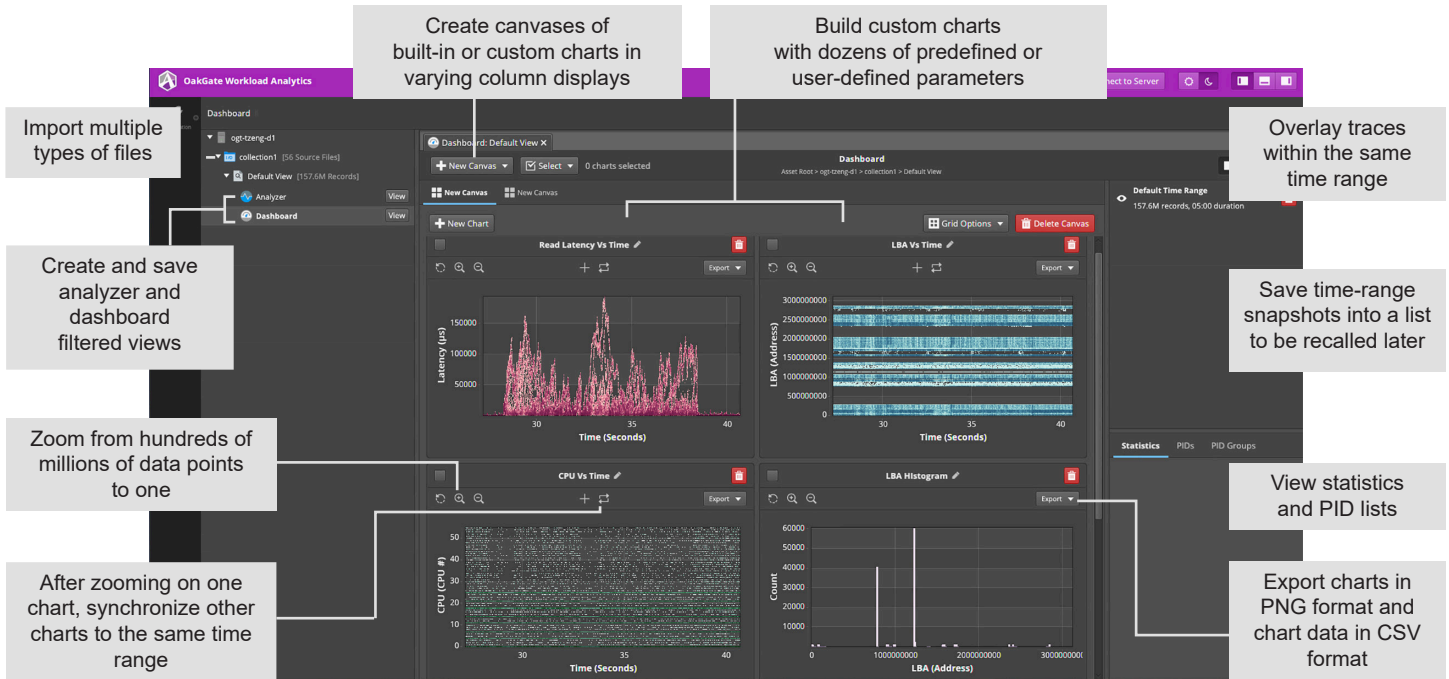
Generates Replay Files

Provides the capability to generate a replay file from a trace collection, trace view, or specified time range that can be replayed in Teledyne Lecroy OakGate SVF Pro/Enduro storage validation software. Running a replay file can provide deep insight of the DUT, such as:

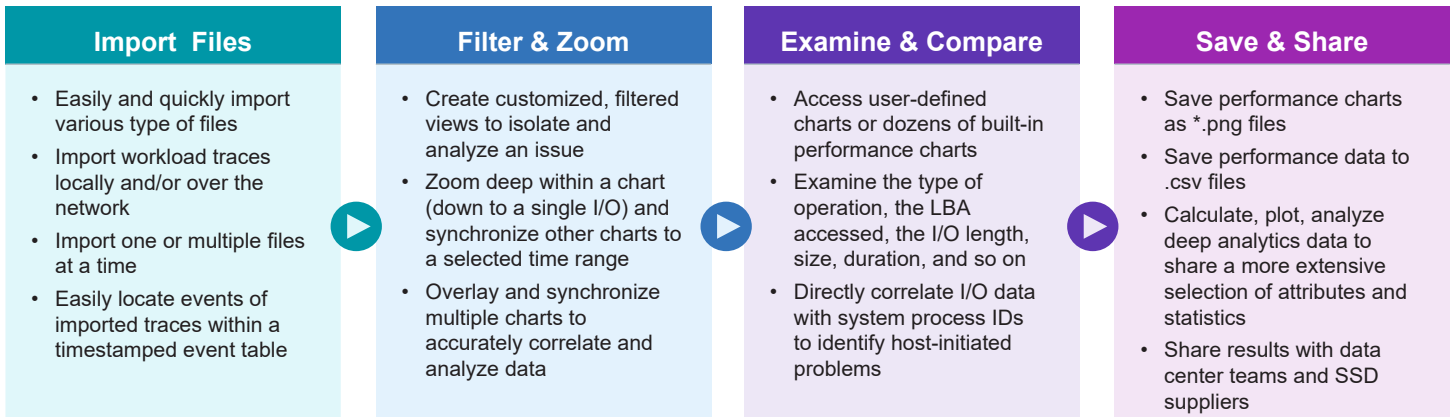
- Running it repeatedly, which can stress the DUT and expose areas of weakness or validate its stability.
- Running the same replay file on multiple DUTs, which can provide a comparative analysis between the DUTs.

Analytics Dashboard Snapshot

The following screenshot shows several performance charts and features in the dashboard of the Analytics application.



User Work Flow



Security and Privacy

- Block/system trace implementation protects security and privacy of workload data – only metadata is captured and analyzed.
- Does not require implementation inside the data center. That is, workloads can be imported and analyzed offline.

Ordering Information

WorkloadIntelligence Analytics Application, Software Subscription for One Year

WIA-SWS-1YR



Local sales offices are located throughout the world. Visit our website to find the most convenient location.
1-800-5-LeCroy • teledynelecroy.com



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