



Sequoia Customization Language

Sequoia is a structured scripting language that enables users to customize their data querying within all of the solutions that comprise the Optimal+ Semiconductor Operations Platform.

Designed to simplify data manipulation, aggregation and analysis, it enables the creation of user-defined querying and analysis operations from the raw data that emanates from the multi-stage test environments in your global supply chain.

- *A built-in capability within the Optimal+ Semiconductor Operations Platform*
- *Works with all Optimal+ solutions, including Global Ops, Test Floor Ops, Escape Prevention, Outlier Detection, TTR & EXACT*

Highlights

- ❖ Automates “Big Data” mining to quickly identify ROI opportunities
- ❖ Enables users to develop and deploy their own scripts for manipulating and comparing data
- ❖ Works with virtually any manufacturing data, regardless of the source
- ❖ Converts in-house algorithms into accessible drag-and-drop building blocks
- ❖ Executes complex rule sequences, such as data feed forward

Flexible Querying, Actionable Insights

In the typical manufacturing operations environment, sorting through terabytes of test results to find the right data that will help determine the root cause of a manufacturing problem is a slow, manual process.

Using Sequoia, a script can be created by a yield, product or quality engineer that automatically identifies, selects and downloads the specific data needed for a desired analysis – translating into a significant reduction in data collection time and a tremendous opportunity to use those time savings to gain timely insights into hidden ROI opportunities.

There’s no pre-configuration necessary and the final goal of the script need not be determined in advance. Create, modify and enhance the script as you go along: A powerful GUI enables users to drag and drop steps onto a canvas directly within the UI of whatever data set you happen to be looking at and then tweak according to need, going back and forth to edit steps. This dramatically simplifies the authoring process.

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How It Works

1



SEQUOIA SCRIPT EDITOR

The Sequoia script editor and debugger features: user-friendly dialog boxes for each type of step; drag-and-drop creation of scripts; step-by-step execution of the script; breakpoints; and automatic validation of steps and their parameters

2



SEQUOIA IN PORTAL+ WIDGETS

Sequoia transforms query results into multiple tables and enables the results to be displayed in one or more widgets. All queries are executed on the server, not the client, significantly reducing data latency time

3



SEQUOIA IN RULES

Sequoia drives two types of rules operations: The Virtual Operation Rule (VOR) which enables users to track every real operation performed on a wafer or lot and perform actions such as Data Feed Forward and Bin Switching; and the highly flexible Sequoia Rule, which enables users to look for just about any type of problem and issue an alert for any condition

4



SEQUOIA IN REPORTS

Sequoia can be used to create highly customized and flexible reports that can include any widget result or image generated within any Optimal+ solution

5



SEQUOIA IN THE SANDBOX

Our EXACT (EXtreme Analytics and CharacTerization) solution contains a new "Sandbox" concept, wherein users can load engineering data which may have missing or incorrect metadata. The user can then complete or correct the metadata before completing the loading process. Sequoia scripts can evaluate the data, mark invalid or missing data and even automate the process of filling in missing data