



Optimal+ Global Ops for Semiconductor Operations

Optimal+ Global Ops is a true industry breakthrough – the first comprehensive IIoT software solution to provide an integrated view into your semiconductor products and all of your global manufacturing operations and processes.

Designed for fabless companies and IDMs, it's the industry's most powerful and flexible solution that delivers real-time product analytics to facilitate improved decision-making and better overall results throughout every phase of semiconductor manufacturing.

- *The flagship solution that drives the Optimal+ Semiconductor Operations Platform*
- *Works in conjunction with all Optimal+ solutions, including Escape Prevention, Outlier Detection, Test Floor Ops, TTR & NPI for Semiconductor Characterization*

Global Ops, Global Benefits

Already installed at over 90% of the foundries and subcons that serve the semiconductor industry, the Global Ops solution is built on the Optimal+ Big Data Highway – our proven data infrastructure that enables semiconductor companies to have total visibility into their supply chain.

Global Ops' real-time Big Data analytics enables semiconductor companies – regardless of product type and volume – to collect data from every point in their global operations; collate and clean the data for analysis; detect problems with pinpoint accuracy; and take action on them in a timely fashion.

This is the essence of the Optimal+ approach to product analytics: the combination of locating a manufacturing problem while there is still time to do something about it and being able to make a decisive decision that positively impacts the end product. Regardless of how your business is organized, you will see immediate and measurable results, giving you a strong competitive edge.

Highlights

- Provides real-time Big Data analytics to improve quality, reliability, yield and productivity
- Leverages every ounce of actionable data from across your manufacturing operations
- Enables seamless visibility between semiconductor product teams and their global supply chain
- Delivers extraordinary real-time response capabilities to decision makers before they become costly
- Manufactures intelligence from numerous test processes, including: E-Test, Wafer Sort, Final Test, Burn-In and System Level Test

How It Works

1



ANALYZE DATA

Powerful analysis tools help engineering teams and operational decision makers alike to scrutinize their product data and detect the issues and potential red flags across their global supply chain

2



CREATE RULES

Establish automated operational monitors pertaining to every facet of manufacturing that enable you to automatically catch problems as they occur

3



SIMULATE SCENARIOS

Run a newly-created rule against actual historical test data in order to ascertain that the problem it targets can actually be identified; amend the rule as necessary if it doesn't achieve the desired outcome

4



PUBLISH TO SUPPLY CHAIN

Once a rule is green-lighted for achieving its intended goal, it can be propagated to the entire tester fleet

5



ACT ON TIME

When a rule is triggered based on the analyzed product data, various automated actions can take place to respond to the manufacturing issue. These actions can range from sending email notifications to product engineering or subcons, to initiating immediate action (such as pausing the tester)

6



VALIDATE RULES

Once a rule is verified as running smoothly and the supply chain adapts to the new requirements, it can be further "tightened" to continuously achieve even more improvement over time