



Global Ops for Electronics

Optimal+ Global Ops for Electronics is an end-to-end IIoT solution for collecting, analyzing and acting upon all the manufacturing and product data generated across your global supply chain.

This rules-driven platform delivers real-time product analytics to brand owners enabling them to drive specific actions into their suppliers and contract manufacturers. These actions enhance quality and reliability; improve yield; and increase productivity in the production of electronic boards and systems.

- *The flagship solution that drives the Optimal+ Electronics Operations Platform and works in conjunction with all other Optimal+ electronics solutions*

Global Ops enhances the manufacturing of any electronic product, from NPI ramp through the assembly of boards, modules and systems. It improves product yield, based solely on manufacturing test, certifies that products were tested as defined in the original product specifications and monitors all manufacturing process steps.

Global Ops enables you to effectively share data across the entire company, from engineering and operations to finance and management. It drives decisive, real-time action for brand owners competing in quality-sensitive market segments, from smart consumer electronics to computing and networking, automotive systems and more. The result: The delivery of premium products of consistently higher quality – manufactured with less waste and greater efficiency – that drive the growth of product revenue.

Highlights

- ❖ Extract, clean, transfer, and standardize the data from all your production floors
- ❖ Create, simulate and publish real-time rules into the supply chain
- ❖ Save good boards that would otherwise be rejected
- ❖ Catch bad boards that mistakenly pass the test program
- ❖ Validate performance vs. plan and insure CM adherence to contract terms
- ❖ Benchmark performance across assembly lines and factories
- ❖ Facilitate better bonenpile management through ongoing monitoring and alerts
- ❖ Enhance product performance through robust product analytics

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How It Works

1



COLLECT DATA

Collect product data through an embedded proxy or parser, and augment with failure analysis and genealogy data; Ensure data integrity by monitoring data format, syntax and content compliance using automated rules

2



ANALYZE DATA

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

3



CREATE RULES

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

4



SIMULATE SCENARIOS

Run a newly-created rule against actual historical test data in order to verify that the problem it is designed to detect is actually identified; amend the rule as necessary if it doesn't achieve the desired outcome

5



PUBLISH TO SUPPLY CHAIN

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

6



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 assembly facilities, to initiating immediate action (such as pausing the tester)

7



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