E2open Manufacturing Visibility

20/20 Vision for Global Manufacturing

As business complexities multiply and timelines shrink, today's global manufacturers require increasing levels of visibility and control. **E2open's Manufacturing Visibility application** removes blind spots in the global supply chain that can impact brand owners' profitability. Manufacturers can vastly improve operational efficiency for both internal production and contract manufacturing by monitoring metrics and course-correcting quality, supply, service and inventory processes.

While global sourcing and contract manufacturing typically lower immediate costs, the increased complexity brings significant challenges in terms of managing quality and inventory, sometimes negating financial benefits. Yet this is not the only issue manufacturers face. Another challenge is merger and acquisition activity, which requires the integration of multiple IT systems. Meanwhile, the rapid introduction of new products and compliance and traceability requirements makes it a business imperative to maintain continuous visibility into all production facilities.

One of E2open's Collaborative Manufacturing intelligent applications, E2open Manufacturing Visibility provides deep insight into production across both internal and external factories. Operations, finance and engineering teams receive shop floor and quality metrics from each facility in the manufacturer's supply chain network to proactively identify non-conformances in manufacturing processes. By quickly addressing variances before they become supply chain issues, companies can reduce scrap, improve yields and increase service levels.

Best-in-Class Manufacturing Visibility

E2open Manufacturing Visibility provides executives with 20/20 vision into production at all facilities for both discrete and process manufacturing industries.

KEY FEATURES

- Digital representation of the end-to-end process across internal and external manufacturing
- Validated and aggregated transactional data from product lifecycle management, manufacturing execution and quality systems
- Automated reconciliation of inventory within the manufacturing network
- Built-in manufacturing traceability and multi-level lot genealogies
- Detailed monitoring of quality, test and production metrics with exception alerts
- Configurable decision support and disposition workflows for operations, quality and finance

KEY BENEFITS

- 100-200% improvement in inventory book closing time
- 30-50% improvement in supply issue response times
- 7-15% reduction in capital invested in inventory across the manufacturing network
- 25-50% reduction in lot-hold disposition lead time
- 20-30% reduction in excess inventory and obsolescence costs
- 3-6% reduction in order-to-delivery lead time

Multi-Level lot Genealogy

Decision makers gain access to a detailed history of the manufacturing process associated with every lot, including how products were built and tested at every step, the materials used and the quality records for each lot. By proactively identifying issues early in the production cycle, companies reduce both scrap costs and delays. Users can also track how units or batches move through the extended supply chain from raw materials to customer orders, enabling fast and efficient recall management.

Single Source of Truth

E2open's unified data model supports complex multi-level recipes. Transactions from manufacturing execution and quality systems are validated against master data and configurable business rules. All stakeholders in the product lifecycle access a common data set to consistently make better decisions based on a single source of truth.

Up-to-Date Production Performance

Transactional data is processed daily, ensuring that operational metrics such as quality, yields, production costs and inventory are always current. The application compares actual performance to targets, triggering alerts when exception thresholds are exceeded. Access to accurate stock information across the entire production network creates a trusted source of decision-grade data for Finance and dramatically reduces the time required to reconcile inventory for financial reporting.
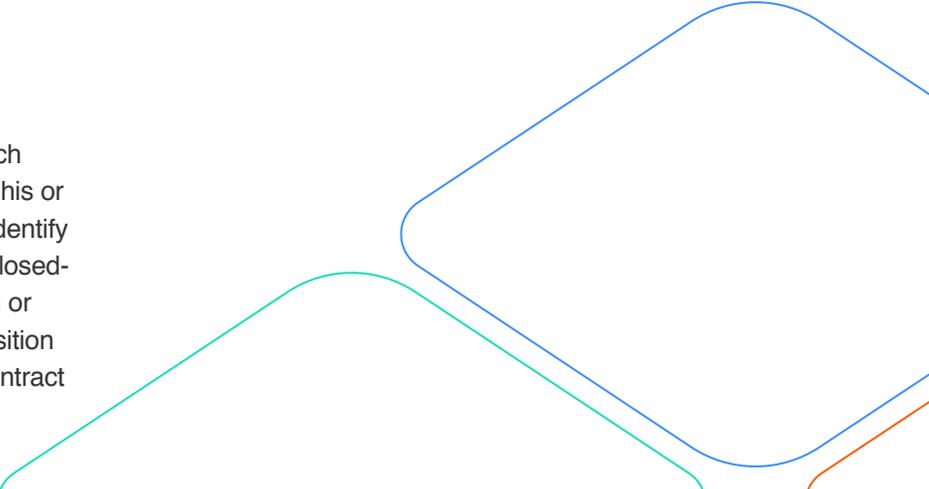
Insights That Lead to Action

Permission and workflow management ensure that each user has access to the information required to support his or her role. When an issue is flagged, users can quickly identify the root cause and take corrective action through the closed-loop connection to underlying manufacturing execution or quality systems. If a lot is identified as defective, disposition instructions are automatically sent to internal and/or contract manufacturers to place production on hold or take other suitable steps. Improved response times prevent waste and mitigate the impact on customer service.

End-to-End Supply Chain Management Platform

Once an organization implements any E2open platform application, it is easy to add more capabilities in the future for better visibility, coordination and control over the end-to-end supply chain. The E2open platform creates a digital representation of the internal — and optionally external — network, connects internal ERP and financial systems using SAP® and Oracle® certified adapters for timely data feeds, and normalizes and cleanses the data to make it decision-grade. Using machine-learning enabled algorithms and supply chain management applications, the platform processes the data and provides bi-directional, closed-loop communications back to ERP systems for execution. This facilitates the evolution of supply chain processes towards true convergence of end-to-end planning and execution.

Decision makers gain the same visibility and control for outsourced manufacturing as core internal operations to increase yields, improve service and reduce financial liability from excess and obsolete stock.