

# QUALITY PLANNING

## ACCELERATE USAGE DECISIONS

### A LEAN APPROACH TO QUALITY

Lean manufacturers utilizing Just-in-Time, sequenced material flows are fanatical about eliminating process delays. Unfortunately, when managing your quality program within a corporate planning enterprise application, delays occur. An extra 10 minutes per process adds up quickly after 100 cycles. Quality assurance plans with iterative, dynamic measurement and evaluation criteria can really drain system resources, adding unnecessary delays to quality improvement programs.

DELMIA Apriso Quality Planning addresses this challenge by performing iterative sampling as an autonomous, integrated manufacturing process. By avoiding the need for frequent interaction with Enterprise Resource Planning (ERP) and Product Lifecycle Management (PLM) applications, inspection plans can be quickly executed by DELMIA Apriso to eliminate waiting periods and manual processes.

Continuous improvement programs surrounding quality assurance can now achieve greater results. Adaptive inspection plans respond faster to changing production, warehouse, and supply chain conditions to reduce scrap and eliminate variability across your operations.

### OPERATIONS SOLUTION IMPROVES PROCESS INTEGRATION

“Simpler is better” goes a long way to improving efficiency, reducing the cost of quality and improving responsiveness. The quest to continually improve quality, however, is a process that seems to only grow in complexity. DELMIA Apriso Quality Planning is part of DELMIA Apriso’s solution for manufacturing operations management, so it can address these challenges while conforming to ISO standards (ISO-2859) and expanding your options for faster quality inspection and sampling.

For example, you can establish a sampling procedure to calculate sample size based on a fixed number, percentage, or complex sampling tables using an AQL (Acceptable Quality Level) value, to then determine the optimal quality inspection that matches a varying product attribute, resulting in improved overall quality. These capabilities are immediately available at the operations level, allowing for quick decisions related to material inspections, thereby removing delays to ensure production is never starved.

### INTEGRAL COMPONENT TO QUALITY MANAGEMENT

Best-in-class manufacturers realize the benefits of a common solution for manufacturing operations management, which includes improved performance and greater synchronization of material flows across distributed operations and product supply networks. Another benefit is the standardization of quality processes across the enterprise, replacing local, plant-based initiatives. The end result is less variability, improved quality and a lower total cost of quality.

### BENEFITS

- Minimizes shop floor operations disruptions by supporting immediate inspection task generation
- Enforces inspections at production line based on automated scheduling, streamlining quality assurance processes
- Reduces the cost of quality by combining key capabilities into one system, across all manufacturing operations processes
- Conforms to ISO standards (ISO-2859), expanding the options available for quality inspection plans and the execution of those plans
- Supports APQP and ISO 16949 standards for automotive industry, helping to lower the total cost of quality

Achieving this vision takes an integrated approach to enterprise quality management, a vision that must extend beyond a single manufacturing or warehouse facility to support a continuous lifecycle of product and process quality improvement. DELMIA Apriso Quality Planning, when combined with DELMIA Apriso Quality, provides inspection planning, defect tracking, traceability, and the necessary containment management to manage both supplier and customer quality issues.

### PART OF THE TOTAL DELMIA APRISO SOLUTION

DELMIA Apriso Quality Planning is a key component of DELMIA's broader DELMIA Apriso solution for manufacturing operations management. With DELMIA Apriso you can manage production, quality, warehouse, maintenance, and labor processes to achieve visibility into, control over, and synchronization across global manufacturing operations. Built with a native Business Process Management (BPM) framework that incorporates a unified data model, DELMIA Apriso applications enable continuous improvement and rapid response to market changes. DELMIA Apriso delivers a global view of manufacturing operations by utilizing a Service Oriented Architecture (SOA) to ease integration with enterprise applications, such as ERP and PLM, while interfacing with the shop floor and automation equipment.

### FEATURES

- Download Inspection Plans and Sampling Procedures from external systems, such as Enterprise Resource Planning (ERP) and Product Lifecycle Management (PLM) applications
- Extend or modify downloaded plans to meet specific plant needs while ensuring that corporate standards are maintained
- Deploy inspection plans, sampling procedures, and schemes across multiple sites
- Generate inspection tasks automatically, based on time, quantity produced, or machine events
- Determine proper inspection plan automatically, based on flexible, adjustable set of parameters
- Calculate quantity to be sampled for each quality test (ISO-2859 supported), which can be specified as a fixed quantity, percent of total quantity, or based on a sampling schema

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