



QAD PRODUCTION EXECUTION

Poor collaboration between the planning and operation disciplines restricts a manufacturing organization's ability to meet customers' needs. Manufacturers often lack timely and accurate insight into the operational status of planned production. This lack of insight interferes with production's ability to respond effectively to unpredictable customer situations, inventory shortages, equipment failures and [supply chain](#) interruptions.

The lack of insight is typically due to a combination of factors such as error-prone data from manual capture, out-of-date data and weak integration. For example, paper-based or manual reporting from the plant floor is inherently slow and of suspect quality. Or product genealogy and related traceability information may be trapped in disparate systems that prevents effective recall handling.

Unfortunately, IT departments seldom possess the time or resources needed to cross all the information silos. Without that data, it is nearly impossible to optimize production and deal with daily exception situations. While the lack of operational insight interferes with tactical business decisions and actions, it also indicates strategic exposure for the manufacturer in terms of customer satisfaction and ineffective inventory management.

HOW CAN MANUFACTURERS IMPROVE OPERATIONAL DELIVERY FOR CUSTOMERS?

Investments in planning and business systems need to be intimately connected to production execution to ensure timely and accurate insights that support optimal enterprise decision making

CAN MANUFACTURERS SUCCESSFULLY EXECUTE A DIGITAL TRANSFORMATION WHILE BURDENED BY LEGACY SOLUTIONS?

Solutions designed with adaptability as a primary capability enable short and long-term performance improvements - and a more effective digital transformation.

HOW CAN MANUFACTURERS EFFECTIVELY TRANSLATE THE PROMISE OF IOT, DATA LAKE AND DIGITAL TWIN INTO PRACTICAL BENEFITS?

Modern systems are rapidly moving past the experimentation phase and delivering results. Manufacturers should look for solutions that already take direct advantage of [advanced technologies](#).

Outcomes | Resulting improvements may be measured using metrics such as:


**SCHEDULE
ACHIEVEMENT**


**COMPONENT
AVAILABILITY**


**OVERALL EQUIPMENT
EFFECTIVENESS**


**CUSTOMER
RESPONSIVENESS**

Also, streamline communication between planners and the shop floor; *8 out of 10 plant managers agree that better collaboration between operations and planning is key to operational effectiveness.*

Key Strengths

Optimized operator-centric interface: QAD Production Execution delivers a highly visual and intuitive interface for automated and operator-initiated shop floor transactions. This results in fewer paper-based processes and improved shop floor data integrity.

Comprehensive operational data capture: Time stamped production order, operator and equipment events provide the information foundation for actionable analytics and product traceability requirement

Better operational decision making: Cross-functional awareness of active status and immediate access to progress and exceptions drive a shorter time to knowledge and faster, clearer insights.

Strategic vertical alignment: QAD Production Execution provides



operational extensions for QAD Adaptive ERP. This integrated combination results in uniform access to application data and a streamlined strategic application. Integration with QAD Automation Solutions, QAD CEBOS EQMS (Enterprise Quality Management System) and QAD Enterprise Asset Management further extend the manufacturer's connection to the complete enterprise.

System flexibility, integration and maintainability: QAD Production Execution can be adapted to a wide variety of production environments while maintaining a standardized connection to core ERP and business systems functionality. This results in an optimal response to change as well as a reduction in support costs.

Core Capabilities

Easy to use and secure operator experience

Highly intuitive, operator-friendly line-side touch user interface

Simplifies production data capture through automated IoT integration

Access and authentication security protects data

Flexible deployment architectures including mobile

Comprehensive and rich production information and processes

Supports order selection and status changes

Includes line-side delivery of images and managed documents

Incorporate process data directly from automated equipment via native and industry-standard protocols

Provides operator request capability for maintenance, quality, materials and other processes

Event-driven material management and label printing

Contextual checklist and inspection processes

Equipment monitoring and downtime reporting

Managed Production Orders via synchronized planning capability

Transactional audit trail and data history using data lake repository

Foundation for IoT, traceability and genealogy

QAD Production Execution reduces time to knowledge and drives the shared vision of the adaptable manufacturing enterprise. Is your organization ready for collaboration at the pace of production?

For related information please see:

[High Tech ERP is not an Oxymoron in QAD Labs](#)

[The Cat in the Hat and the Internet of Thing 1 and Thing 2 \(IoT 1&2\)](#)

[Manufacturing Superheros and eXcel-Ray Vision](#)

For more information on how QAD Production Execution can help your company, please contact your account representative, or [contact QAD](#) at +1-805-566-6100 or email info@qad.com.



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