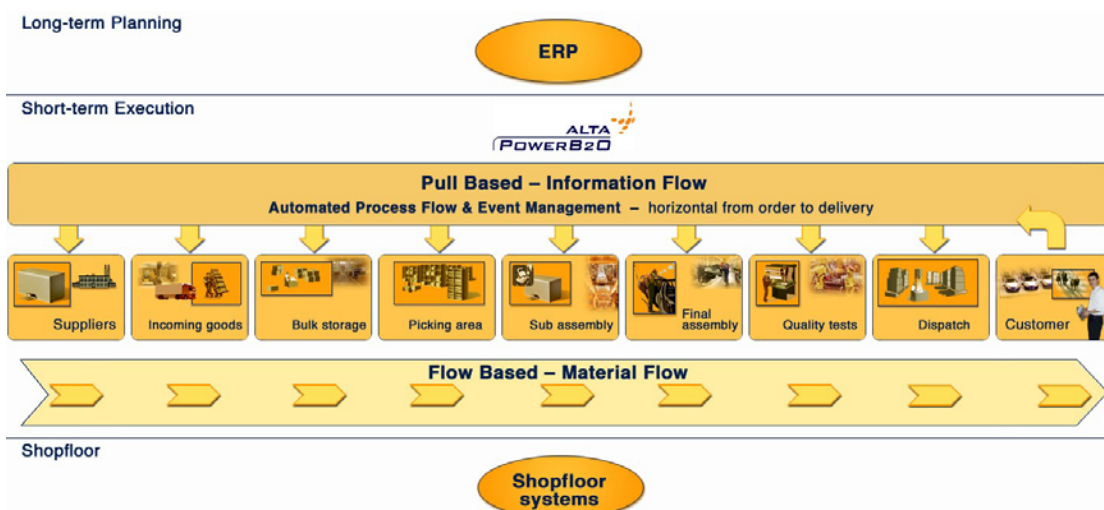


MANUFACTURING EVENT MANAGEMENT BUSINESS OVERVIEW FACT SHEET

Manufacturing Event Management

Manufacturing Event Management makes it possible to manage and control sequences of **planned events** such as complete business processes. Built upon an event-driven architecture that automates process flows from order to delivery, Manufacturing Event Management uniquely synchronizes information and material flow to obtain a lean production and secures on-time delivery by providing the earliest possible warning of mistakes and **exceptional events**. In its concept equivalent to Error-Proofing, but whereas this (also known as Pokayoke or Mistake Proofing) traditionally only applies to the shop floor, Event Management takes Error-Proofing to the complete flow of information and materials.

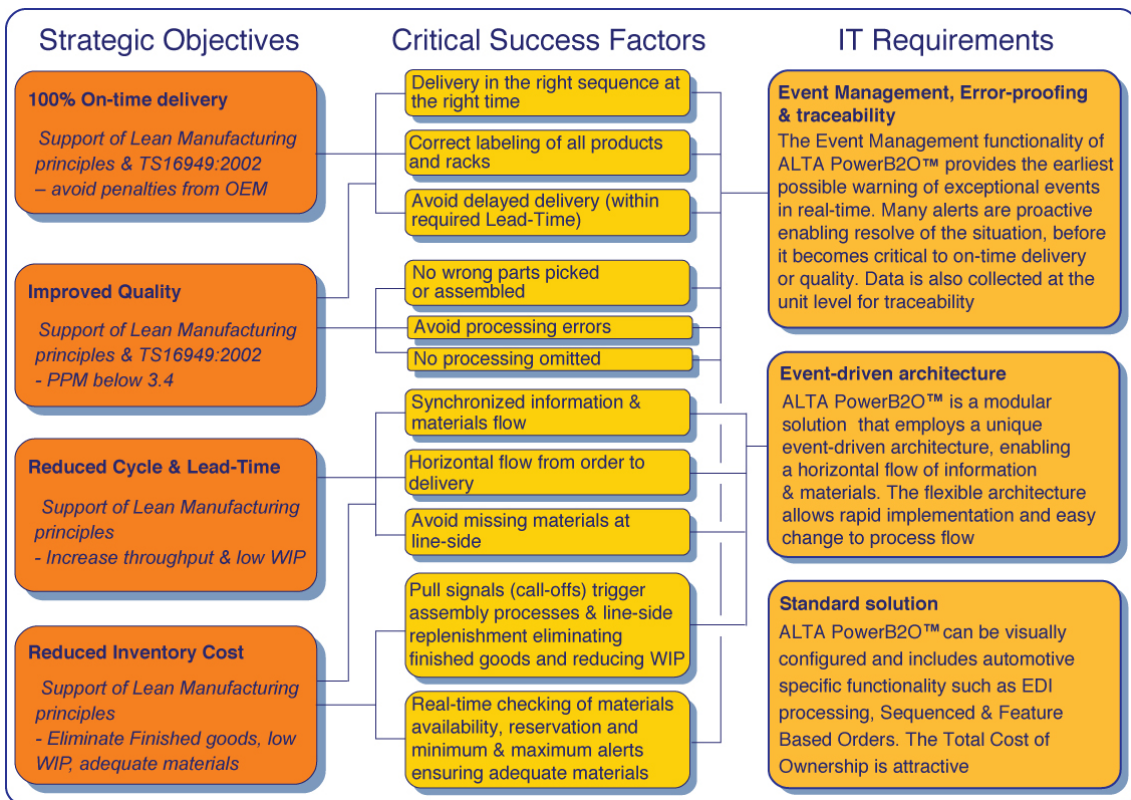
Situated below the ERP systems and just above shop-floor systems, Manufacturing Event Management takes a business approach to order execution by managing the horizontal flow of information and materials from order to delivery, whereas most other solutions in this segment provide vertical integration of the shop floor information with the business layers providing visibility into single steps in the processes.



The market Leading Manufacturing Event Management Solution: ALTA PowerB20™

ALTA PowerB20™ is the Supply Chain and Manufacturing Event Management software solution that enables more profitable revenue for automotive suppliers & logistic companies around the world. ALTA helps customers implement strategies like In-Sequence delivery, Lean Manufacturing, or Build-to-Order through extensive knowledge and ALTA PowerB20™ that will enhance existing system investments, achieve perfect on-time delivery, improve quality & flow in assembly processes, shorten cycle & lead-times and at the same time reduce inventory cost.

To ensure the greatest return on your IT investment, ALTA PowerB20™ has been designed to map to manufacturers' strategic objectives and critical success factors.



Pro-Active Event Management, Error-Proofing, and Traceability

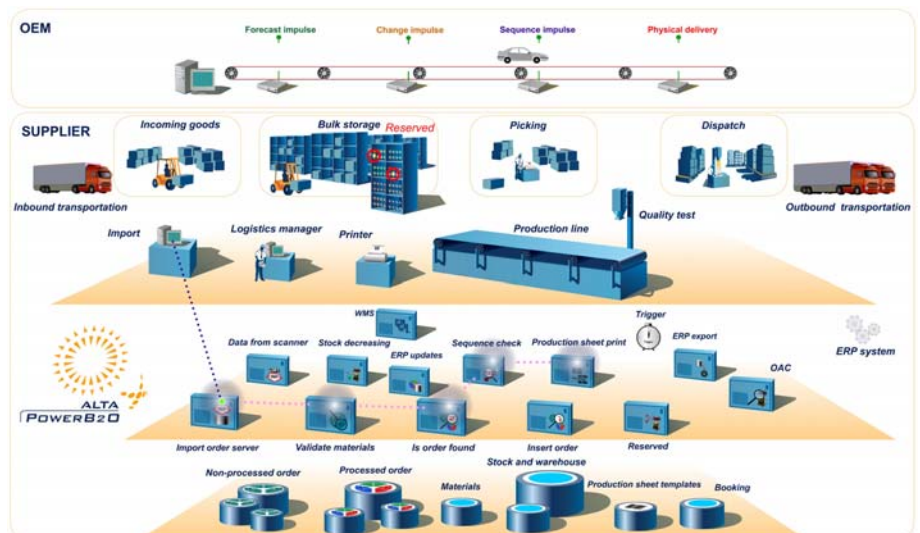
Generally, the earlier you are able to detect a mistake, the higher the quality of your processes. To completely eliminate defects, solutions try to prevent mistakes from occurring. The most efficient Event Management solutions provide a proactive warning of possible mistakes - before the mistake becomes critical to on-time delivery or quality. In such instances, processing is halted until important issues are resolved. Reactive Error-Proofing also has tremendous value because it ensures that defects are dealt with before they become an issue for the smooth flow of production and do not show up in the end product.

The Event Management functionality of ALTA PowerB2O™ provides the earliest possible warning of exceptional events - extending beyond the shop-floor and throughout the complete flow of information and materials - in real-time.

Furthermore, at each step in the process, data related to the VIN number is collected. Such order specific unit-level tracking can be used for continuous improvements and as traceability information in case of warranty/quality issues. The above illustration of critical success factors details these functionalities.

Event-Driven Architecture

ALTA PowerB2O™ uses a flexible, modular approach, combined with object-oriented technology. As a result, you can add new modules and objects and have them up and running instantly, or easily change the process flow. Each module uses a common standardized



interface. Because the modules search for information in real time, the ALTA PowerB2O™ solution works as an integrated system enabling a horizontal flow of information and materials.

A Standardized, Easy-to-deploy Solution

ALTA PowerB2O™ is the first Event Management solution that is both standardized and easy-to-deploy - standardized, because ALTA PowerB2O™ will fit easily into your current supply chain without disruption – regardless of your ERP system, planning tools, or subsystems, and easy-to-deploy, because it enables you to configure and visualize all production steps on the fly. ALTA Configurator makes it possible to model process flows, add new production steps instantly, visualize production that is distributed among multiple plants, and customize production to changing customer demands.

In addition, you can use ALTA PowerB2O™ to create production sheets, picking lists, and transport documents. The dynamic approach of ALTA PowerB2O™ enables super users to change and print production documents without delaying production.

Mapping to Customers' Needs

To help match the solution to specific customer needs, we have developed five PowerB2O™ templates. We derived them by considering typical strategic objectives and related customer requirements ranging from simple (Bronze) to complex operations (Diamond).

	Push		Pull		
Sequencing Strategy	<i>Ship-to-Sequence</i>	<i>Verify-to-Sequence</i>	<i>Assemble-to-Sequence</i>	<i>Build-to-Sequence</i>	<i>Replenish-to-Sequence</i>
ALTA PowerB2O configuration	Bronze	Silver	Gold	Platinum	Diamond
Value of the applicable sequencing strategy	Fulfilling basic in-sequence requirements from OEM	Pursuing 100% on-time delivery in the right sequence	100% on-time delivery, eliminating finished goods, minimizing WIP & decreasing cycle times	100% on-time delivery, eliminating finished goods, minimizing WIP & reducing materials	100% on-time delivery, eliminating finished goods, minimizing WIP & achieving razor-thin materials

Selected Features of ALTA PowerB2O™

Business interfaces

- Electronic reception of orders, materials and master data
- Electronic export of orders, ASNs, ERP uploads

Order management

- View, monitor and track orders
- Create, change or re-issue orders
- Control the sequence of processed orders
- Compare orders
- Check order events

Inventory/Warehouse movements

- Receive and store incoming goods
- Receive Advance Shipping Notes (ASN)
- Material reservations
- Online Availability Check (OAC)
- Control relocation of goods between warehouse locations
- Material picking
- Material replenishment, KANBAN
- Material lot tracing and FIFO

Dispatch management

- Control delivery of goods
- Schedule transports
- Sequence delivery

Shopfloor Flow Management

- Error-proofing, traceability and shopfloor integration
- Supports external devices such as barcode scanners, pick-to-light, torque guns, etc.

Monitoring

- Monitor processing and operations

Reports/Documents

- Design and customize production documents (production sheets, picking lists, labels, etc.).
- Setup and control printers
- Create production reports

Data Management

- Archiving of data
- Viewing of archived data

Handling of exceptions

- When materials in warehouse are low or even insufficient
- When materials are not found
- When maximum time between production steps is exceeded
- When no impulses/orders are coming in
- When some processing stopped

Next Steps

To learn more about ALTA PowerB2O™, visit www.ALTA.net, where you will find downloadable material including fact sheets and white papers. If you have any questions or comments about ALTA PowerB2O™, please contact us at www.ALTA.net.

What are the Experts saying about ALTA PowerB2O™

"Alta's PowerB2O™ system is designed to provide collaborative manufacturing and sequencing operations



that allow plants performing complex assembly operations to coordinate with suppliers and customer assembly plants. It truly is one of the few systems developed from the ground up to provide the execution-oriented, foundation for Build-To-Order (BTO) in the Automotive industry."

Source: AMR Research, Kevin Prouty, ALTA continues push into North America

"Agile Manufacturing is challenging, requiring pull signals, time compression and integration of information flows throughout the value chain. ALTA has one of the few software solutions that supports the full breadth of order management, production control and supplier management functions that Agile manufacturing demands. On the plant floor, ALTA enables Agile manufacturing by delivering the following, integrated functions:

- Build to Order
- Tracking
- Event Management
- Collaboration
- Visually Configured Process Flow"



Source: ARC Advisory Group, Simon Bragg, Lean Thinking & Event Management Make Automotive Suppliers More Profitable



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