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CASE

**Total Production Management in
 the Aerospace Supply Chain**

CLIENT

Enikon Aerospace



Codel was invited to provide, through the configuration of its AIDA Manufacturing Execution System (MES) and custom development, a Track and Trace system, Quality Control and Production Management Solution for its customer – a supplier to Europe's largest aerospace firm.



REASONS AND DRIVERS



The Client required a suite of installations and custom developments to manage their sprawling warehouse operations, materials and stock, item level production, and distribution, as well as providing integrated traceability and quality control throughout. According to the requirements in the aerospace supply chain of which it was a part, the new system had to provide:

- SAP data exchange;
- item level tracking by serial numbers;
- warehouse management;
- tracing serial numbers during the assembly of the products;
- quality control;
- distribution; and
- real-time barcode handling.



PROJECT IMPLEMENTATION

All customer purchase orders were automatically collected from their customer's SAP system and were automatically imported into the AIDA system. Similarly, resulting outbound delivery data was uploaded in the course of fulfilment. Supplier purchase orders and corresponding inbound deliveries were integrated with inbound quality control, so all unacceptable materials would be marked for return to suppliers in real time, along with all the necessary documentation including specifications of serial numbers and reports detailing detected errors. Finished goods' and semi-finished goods' product specifications were established and maintained. According to the purchase orders AIDA automatically generated production orders with the material's serial number(s). The collection data was analysed to provide information on production lines, as well as manage item level material movement during the production process. The warehouse management system recorded all materials movements between warehouses and operations to enable queries and inform scheduling/internal logistics policies. After every relevant production operation, a quality control point was established with all measured values documented for every serial number. The rework processes were managed and documented with errors and remedies categorized.

Our Client was given visibility of its operations – informing it about every serial number in production, corresponding production order and purchase order serial numbers related to operations throughout the production process, and about delivered and undelivered serial numbers as well.

REVEAL THE HIDDEN FACTORY



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DELIVERY

For delivery purposes outbound delivery documents were generated according to the customer's purchase orders, along with serial-numbered picking lists. Operators were equipped with wearable barcode scanners to provide fast and ergonomic data collection.

PARTIAL DELIVERY

AIDA provided the possibility of enabling partial delivery in the case that some parts of a sales order were delayed or in-process. The balance of the order could then be delivered when finished. All partial outbound documentation was similarly provided, as well as procedures to indicate when the remaining items would be ready for delivery.

CONTAINER BASED PACKAGING

Every part serial number was matched with the corresponding serial number of its transport container. Packaging lists for each container and part serial numbers were generated as a standard element of the outbound documentation. All packaging lists and delivery documents could then be further matched according to higher delivery criteria (e.g. truck level). Data was exchanged across all ERP systems in the supply chain.

✓ THE PROJECT ACHIEVED ALL TARGETS SET BY THE CLIENT



RESULTS



JUST IN TIME PRODUCTION



REDUCED ERRORS



INCREASED PRODUCTION SPEED



WAREHOUSE MANAGEMENT