



Rockwell Collins is a world-renowned manufacturer of aviation heads up displays, GPS and cabin systems components used in both commercial and military aircraft. Deployment of Minerva's advanced inventory management software for their stockrooms throughout North America has helped Rockwell bring enhanced visibility and performance into their manufacturing processes.

Rockwell Collins and Minerva Associates have maintained an outstanding relationship for over 18 years, and as their business processes have changed, so has software functionality to meet new challenges. Rockwell Collins currently employs AWLview at logistics sites in Coralville, IA, Cedar Rapids, IA Melbourne, FL, Calexico, CA and Mexicali, Mexico.

Rockwell's logistics centers are highly automated with horizontal carousels, vertical lifts, and AS/RS systems, all from different material handling equipment manufacturers. SAP functions as the system of record, issuing over 12 million warehouse transactions annually generating over a million interface records a day. And all 750,000 parts require detailed records for federal compliance.

AWLview communicates directly with all MHE controllers, streamlining the interface architecture and eliminating the need for third party middleware. All MHE movements are optimized for maximum throughput: all workstations with pod configured carousels preposition the units to eliminate dwell time for the operator, AWLview optimizes orders within each batch to maximize MHE movements while preserving priority sequence when processing requirements, and operators are directed through the process of bagging the material, applying labels and additional labor to meet ESD and HUM requirements. AWLview interfaces to weigh scales at each workstation to increase count efficiencies with high volume, small dimension units. AWLview also directs inventory personnel to off-carousel locations utilizing rugged Motorola mobile handheld computers.

SAP for Rockwell Collins is an intricate, massive, invaluable, and mission-critical business application. Minerva works very closely with Rockwell's IT team on the SAP/AWLview interface to meet the requirements documented by operations, and minimize development work and changes on the SAP side. Functional and user acceptance validation ensures that all upgrades and enhancement work are thoroughly tested in a test environment prior to deployment for mission-critical production use.



Kits arrive in manufacturing from the stockroom clearly labeled and with AWLview triggered SAP kit lists. Issued material for kits is consolidated and tracked by AWLview in a consolidation matrix. AWLview tracks the arrival of parts from multiple stockroom areas to matrix slots assigned to TOs, and updates an intuitive color-coded display. The display provides up to the second aging and kit-complete information on kits in the matrix. Combined with location and part barcode verifications, the consolidation matrix helps maintain accurate and efficient delivery of kits to the production floor, a key component which keeps manufacturing capacity above 98%.

Minerva Associates is honored to be recognized for their positive impact on Rockwell Collins' logistics operations. Minerva has won two Supplier of the Year Awards and been nominated for the prestigious President's Award. 2012 saw major upgrades for Rockwell, including new functionality to help manage reeled inventory, enhancements for finished goods fulfillment, and expansion to facilities without material handling equipment. AWLview for Rockwell Collins runs on a high performance/high availability cluster on Windows Server 2008 R2 with Oracle as the database manager.