SAP® Certified
Integration with SAP NetWeaver®

Windows Server 2012 Certified

DISCRETE MANUFACTURING

Overview

Headquartered in Tulsa, Okla., this company is one of the largest independently owned aerospace companies in the world. They design, certify and manufacture integrated propulsion systems, nacelles and thrust reversers for business jets. In addition, they manufacture composite aircraft structures, interior shells, custom cabinetry, radomes, and aircraft transparencies such as cabin windows, wing tip lenses and simulator screens. It is also one of the world's largest third-party providers of maintenance, repair and overhaul services to the military, commercial airline and air freight markets.

The company employs approximately 2,000 people around the globe, with facilities in the US, United Kingdom, Mexico and Singapore.

The Challenge

With manufacturing facilities in the US, Europe and Asia, the company needed to quickly implement a company-wide bar coding system to support their recent SAP upgrade. In fact, the project requirement was to go live 30-days after project start. Due to the short time frame involved, the customer was looking for something that could be deployed quickly and reliably but then extended by their internal IT staff in the future. Finally, the delivered solution was required to work properly with the existing SAP Single Sign-On (SSO).

The Solution

The *NLINK® ADC to SAP Solution* was installed on a central server running 64-bit Windows Server OS and fourteen pre-built data collection transactions were delivered. Junot Systems then provided a standard 3-day on-site training class that taught the IT group how to modify the delivered transactions and create new ones as needed.

SAP Bar Coding Transactions

The initial set of SAP bar coding transactions that were delivered to work with the customer's SAP Inventory Management (IM) and Warehouse Management (WM) modules included:

TXN CODE	TRANSACTION DESCRIPTION
MB01-101	The pre-configured **Goods Receipt for Purchase Order** transaction in the NLINK ADC to SAP Solution prompts the user for the Purchase Order number and / or a material or batch number, usually scanned off the delivery documentation or packaging. The NLINK ADC to SAP Solution then returns the matching line item information for verification of quantity and receiving location. Finally, the NLINK ADC to SAP Solution posts the goods movement using Movement Type 101 (Receipt to Warehouse/Stores) to the SAP system and notifies the user of the success of the transaction.
MB1B-311	The pre-configured **Transfer Posting Storage Location to Storage Location** transaction in the NLINK ADC to SAP Solution uses the Movement Type 311 (One-Step Transfer Posting Storage Location to Storage Location). It prompts the user for the issuing Storage Location and a material number or batch number. The NLINK ADC to SAP Solution then returns the existing inventory information for verification and prompts for the receiving Storage Location and quantity to move. Finally, the NLINK ADC to SAP Solution posts the goods movement to the SAP system and notifies the user of the success of the transaction.
LT01	The pre-configured **Create Transfer Orders for Bin to Bin Transfer** transaction in the NLINK ADC to SAP Solution prompts the user for the Warehouse, Movement code, Plant, Storage Location and Batch or Material Number, usually scanned off documentation or packaging. The NLINK ADC to SAP Solution then prompts the user for the source and destination storage type, section and bin. Finally, the NLINK ADC to SAP Solution creates a Transfer Order (TO) in the SAP system and notifies the user of the success of the transaction.
LT12	The pre-configured **Transfer Order (Picking/Putaway) Confirmation** transaction in the NLINK ADC to SAP Solution prompts the user for the Warehouse and Transfer Order (TO) number, usually scanned off documentation or packaging. The NLINK ADC to SAP Solution returns all matching and open (unconfirmed or partially confirmed) TO lines. Each TO line is shown one at a time. The user can navigate between TO lines using the << and >> buttons. The user marks all desired lines by checking the CONFIRM box for each line. Finally, the NLINK ADC to SAP Solution posts a confirmation containing all selected lines to the SAP system and notifies the user of the success of the transaction.
MI04	The pre-configured **Physical Inventory Count** transaction in the NLINK ADC to SAP Solution prompts for the Physical Inventory Document number. The NLINK ADC to SAP Solution then returns the storage location and material number for verification and prompts for the counted quantity. Finally, the NLINK ADC to SAP Solution posts the inventory count to the SAP system and notifies the user of the success of the transaction.

TXN CODE	TRANSACTION DESCRIPTION
MB1A-921	The pre-configured **Goods Issue to Service Order** transaction in the NLINK ADC to SAP Solution prompts the user for the Service Order number, usually scanned off an order documentation. The NLINK ADC to SAP Solution retrieves all matching and open reservation items associated with the service order. Each reservation item is shown one at a time. The user can navigate between items using the << and >> buttons. When the user posts an issue against a particular item, the NLINK ADC to SAP Solution will post the goods movement using Movement Type 921 to the SAP system and notifies the user of the success of the transaction.
MB1A-261	The pre-configured **Goods Issue to Production Order** transaction in the NLINK ADC to SAP Solution prompts the user for the Production Order number and a material or batch number, usually scanned off the production documentation or packaging. The NLINK ADC to SAP Solution then returns the matching line item information for verification of quantity and issuing location. Finally, the NLINK ADC to SAP Solution posts the goods movement using Movement Type 261 (Consumption for Order from Warehouse) to the SAP system and notifies the user of the success of the transaction.
MB31-101	The pre-configured **Goods Receipt for Production Order** transaction in the NLINK ADC to SAP Solution prompts the user for the Production Order number and / or a material or batch number, usually scanned off the delivery documentation or packaging. The NLINK ADC to SAP Solution then returns the matching line item information for verification of quantity and receiving location. Finally, the NLINK ADC to SAP Solution posts the goods movement using Movement Type 101 (Receipt to Warehouse/Stores) to the SAP system and notifies the user of the success of the transaction.
LS24	The pre-configured **Bin Stock per Material** transaction in the NLINK ADC to SAP Solution prompts the user for the Warehouse, Plant and Batch or Material Number, usually scanned off documentation or packaging. When the user selects the QUERY button, the NLINK ADC to SAP Solution returns all matching Warehouse Quants. Each Quant is shown one at a time. The user can navigate between Quants using the << and >> buttons. This is a reporting transaction and does not include any posting to SAP.

Benefits

The *NLINK ADC to SAP Solution* was delivered on-time and within budget despite the very short time-frame involved. All of the work was performed remotely from Junot's offices in Houston which allowed more efficient use of technical resources while keeping services costs to a minimum.

Subsequent to deployment, on-site training by Junot Systems allowed the customer's internal IT staff to immediately extend the delivered transaction set. In fact, the customer's IT group added four new bar coding transactions within the next few months to support point-of-issue tracking of tools issued against a job site:

- Tool Assign to Work Area (Deliver to Work Area)
- Tool Locations
- Pickup Tool in Transit
- Put-away Tool to Home

Separately, the solution was further expanded to include the ability to print bar code labels directly from the hand held devices. Junot Systems provided this additional capability for one of their existing bar coding transactions and delivered it with documentation to allow the customer's IT group to replicate it to other transactions as required.

In order to support users in other parts of the world, additional installations of the NLINK ADC to SAP Solution are planning to be deployed regionally and connected into the customer's SAP system via their global WAN. Other locations and other divisions will then be able to leverage the original work done to easily deliver a consistent and easily supportable enterprise wide bar coding solution.

The success of this project has allowed this customer to retire a previously deployed bar coding application that was not able to meet their enterprise needs.

About Junot Systems

Junot Systems, Inc. is a specialist provider of SAP integration solutions for the manufacturing and process industries. Headquartered in Houston, Texas, Junot Systems, Inc. has deployed and supported its NLINK product suite for over 20 years in a variety of vertical markets, both in the US and overseas.

About Junot Systems' Solutions

NLINK® is a configuration-based product suite that installs in minutes and requires absolutely no custom coding to be deployed. NLINK's patented and SAP Certified Interfaces work with any version of SAP and require no additional SAP components to be purchased or installed into the SAP landscape.