

PlantTalk:MES

Software Built Around You

Shop floor automation means enabling collaboration between your shop floor machines and equipment, your business systems, suppliers, customers, and people. This can be achieved by focusing on a very specific area of your operation, or can be implemented across your entire plant floor or extended enterprise.

PlantTalk:RECEIVE



Utilizing the radio frequency (RF) barcode scanning technology, PlantTalk:Receive is designed to streamline the receiving process for all parts and components coming in to be used in the manufacturing or assembly process. By capturing and comparing the pertinent barcoded information, such as Part#, PO# and Lot/Serial #, we can compare the actual received products against the expected receipts, based on the available Purchase Order information or the incoming supplier ASN.

- At the point of receipt, the product is tagged with a license plate label, summarizing the contents of the carton/pallet. This ensures end-to-end traceability and accurate production reporting for all parts that are brought for consumption at the production lines. After parts are received into a receiving location, they can be scanned to go to the holding area or to the assembly.
- Quality Inspection flag can be set for any incoming materials that require inspection before they are put away in a warehouse and/or issued to WIP. This can be set up by supplier code or by specific part number.
- E-mail notification will be sent to Purchasing (and any other designated e-mail group) as the incoming materials are being received.

PlantTalk:Receive can update the business system with the actual received information, provide variance and exception reporting and update the inventory levels within PlantTalk:Inventory or other inventory systems.



PlantTalk:INVENTORY

Datanational's PlantTalk:Inventory module provides for a warehouse setup in the Plant/Aisle/Row/Tier format for warehouse put away (and all other inventory movement transactions). Inventory moves from one warehouse location to another are date/time stamped and tagged to the operator who signed in to perform the inventory move. System-automated cycle counting and physical inventory functions can be supported with the system.

Each manufacturing location can view their inventory at their facility level. Additionally, authorized users can see other corporate sites' inventory information in real-time and also consolidated inventory numbers based on the scheduled information uploads at a corporate level.

Throughout the manufacturing process, we can define the exit points for the system to collect various production and inventory status data in order to provide the ability to show real-time stock status levels on demand. This can be setup in a dashboard-style view that can be displayed on monitors throughout the facilities, or be called up on demand for the authorized system users.



DATANATIONAL

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PlantTalk:Pack is a comprehensive pack-off system, which can support the automated pack list printing based on standard packs, as well as the unpack/repack functionality. With on-demand labeling capabilities, available options include automated label generation upon completion of a machine cycle, water jet operation or injection mold operation, and relabeling. On demand labeling ensures accuracy in labeling parts and minimizes the common part mislabeling problems that occur as a result of pre-printing labels in batch.

Typically, there is scanning involved in packing the products into the final shipping container to ensure that the correct product and quantity is being packed. The packing application ensures that only a single part can be packed/scanned into a single container. System provides the ability to allow containers to be able to be configured as needed (by customer, by load) to ensure for flexibility of the container loading process, but keeping the full validation and verification.

When the rack is full, the operator scans all of the parts that are in the rack. If all are the same item number, and the standard pack quantity is met, the proper shipping rack label will be printed based on the part setup.



Once the final products are manufactured and properly labeled, they need to be shipped to the customer.

- PlantTalk:Ship generates or provides for the interfaces to the business system for required shipping paperwork. In most cases, there needs to be at least the Bill of Lading paperwork when a truck leaves for the manufacturer.
- Additionally, the manufacturer often requires sending an Advanced Shipment Notification (ASN) via EDI. All of the ASN-required content can be provided with a data export from PlantTalk:Ship into a standard EDI system.



If you own your returnable containers, you take great interest in knowing that all of your containers come back from the customer site and are introduced back into the scheduled delivery rotation. The replacement of containers can be very costly, especially if you cannot easily come up with the tracking information in response to your customer's inquiry. Without solid container tracking data, you are often left in a position to cover the entire cost of container replacement.

PlantTalk:AssetTrack can be implemented using the traditional data collection methods (barcodes and barcode scanners) or by using Radio Frequency Identification Tags (RFID). In a traditional barcode scanning environment, the system includes scanning and capturing the unique Asset ID's with every shipment and scanning them again as they are received back from the customer or your other locations.

In an RFID environment, each applicable asset is tagged with a unique RFID tag. Each entry/exit dock door is installed with a fixed RFID reader. The system is designed to record an "out" movement of the asset if its present location is that particular site. If the RFID fixed reader reads a tag that is not associated to that location, it will be recorded as an "in" movement. Each read of the asset RFID tag is date and time stamped.

Reporting and inquiries are available over the pre-selected timeframes to identify any assets that are still out in circulation past their usual return timeframe. This gives you the ability to proactively contact your customer or your transportation company and check on the status of the assets in question.

The Datanational Advantage

Datanational specializes in design, development, implementation and support of complete solutions for your shop floor. Solutions of this type require the skills to integrate the machines, tools and production report and alert systems with communications equipment and ERP/MRP systems to inform and guide your employees. Our system is field-tested and customer-endorsed. PlantTalk:MES is supported 24/7 by Datanational's support & development team.

