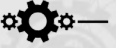## PlantTalk:Pack

PlantTalk:Pack is a comprehensive on-demand labeling and packing validation system. It supports the automated container label and pack list printing based on standard packs. It also provides the validation of the unpack/repack process. Our system is scan-enabled to support packing of the parts into the final shipping containers to ensure that the correct part and quantity is being packed. The system provides the ability to allow containers to be configured as needed (by customer, by load) to ensure the flexibility of the container loading process, while still providing the full scan validation of the finished load.

The packing application provides the required validation that only a single part can be packed/scanned into a single container. When the rack is full, the operator scans all of the parts that are in the rack. If all are the same part number, and the standard pack quantity is met, the proper shipping rack label will automatically print from your ERP, based on the part setup information in the application and the file upload.

As an optional add-on function to PlantTalk:Pack, we can also implement on-demand labeling to print barcoded serialized part labels. These can be triggered via a PLC interface, touch screen interface or a scanner trigger. Once the parts are uniquely labeled, they would then be scanned into your containers.

Automated Production Reporting and Production Dashboards

Datanational's PlantTalk:Pack software can also be tailored and deployed to deliver on the automated finished goods container labeling requirement and provide timely production reporting into ERP.   At a high level, the following process steps are put in place to accommodate this flow:

1. Using a PC workstation or a Windows tablet, the production supervisor will set up the line after they have completed running the test/sample parts but before the start of the full production run for the part. This password protected option provides for the entry of the following fields:

    *   Department
    *   Resource #
    *   Production Employee # (optional)
    *   Any additional required information

This application setup function can also be performed ahead of the production setup phase, and then the supervisor switches to Run mode once the setup testing has been completed.

2. Once the Run mode has been activated, the PLC interface will be turned on, collecting the production triggers from the resource (such as a press or an injection molding machine).
3. The PlantTalk application will send a record to the ERP system to record production for the scanned part, or based on the PLC triggers.
4. Upon reaching the standard pack value for the part, a specific ERP event code will be used to trigger the generation of a container label from the ERP system.

A production status dashboard is continuously updated and refreshed to reflect the current status of each resource, color coded by their run state (running/down/setup mode).   The dashboard can be tailored to display relevant data by resource, such as Work Order number, run rate, part number, etc.

Datanational's PlantTalk:Pack software is tailorable to deliver on the automated finished goods container labeling and timely production reporting into your ERP based on the direct triggers from the PLCs from the production machines. If an output file receipt from the PLC is not feasible, for the PLC communications with an applicable machine, we will define the scope and the software tools & hardware required to establish the communications.