

Omni-ID®



Replenishment Application Module

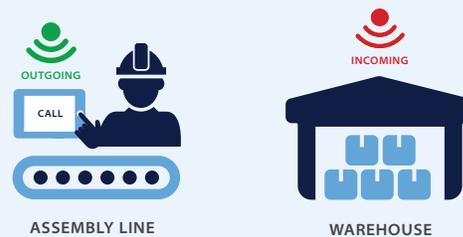
*ProVIEW gets the right parts to the
right place at the right time!*

Getting the right parts to the right place at the right time

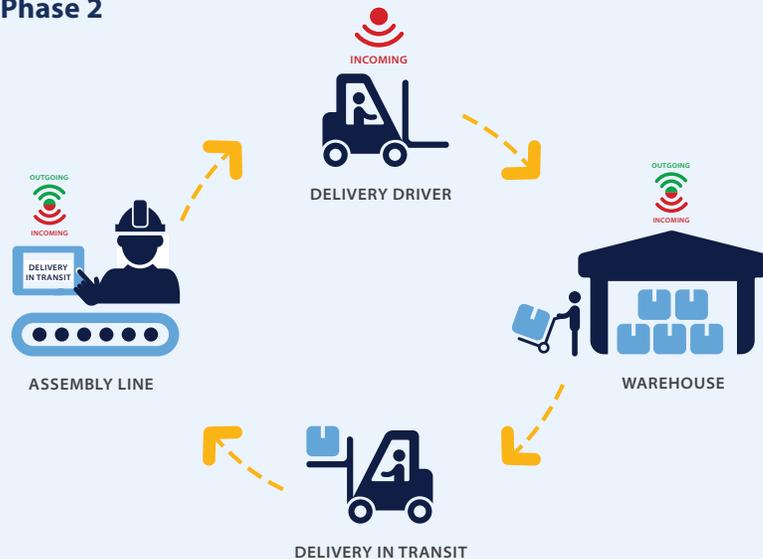
is essential in any factory. ProVIEW's Replenishment application ensures your operators never run out of parts at any point in the process.

Parts replenishment is a key function in any manufacturing operation. The ProVIEW system allows an operator to "call" for parts or services by pressing a button on the View tag or having the tag "auto call" via an optional sensor, and immediately receiving a response via a "call sent" message right on the tag. The warehouse receives the message and executes the pick. Delivery is then scheduled via configurable routes and instruction is sent to the driver for pickup. The entire system is wireless, enabling low installation costs and quick reconfiguration for a dynamic factory.

Phase 1



Phase 2



Standard Work: No Training or Re-training Necessary

This simple and intuitive system includes visual indicators and instruction right on the View Tag for the operator, warehouse and driver. Visual instruction and automatic driver routes require little to no training — providing for ease of use and deployment.

- Automated call is triggered when rack or bins are empty, eliminating opportunity for error in parts call
- Eliminates need for manual replenishment flags and material handler "searching"
- Increases employee retention rates with highly simplified system (less training required)

Re-Configurability: Simple Wireless Deployment

The ProVIEW system requires no wired infrastructure so it is easy to reconfigure or add in a part change on the fly — no software reconfigurations are necessary.

- Dynamic supermarket capability
- No hard-wired infrastructure is required, easy to reconfigure zones
- Reduce capital purchases, fewer racks and containers necessary

The ProVIEW Difference:

Enabling Smart Manufacturing for an IoT World



The Replenishment application module provide a simple intuitive process — from set-up to operation. The system can be set up and running within a matter of days and if necessary, easily reconfigured to add in a part change or set up a new supermarket dynamically in a matter of hours. The best part: operators need little to no training to use the system — and less supervision is required!

How it Works

- 1 Operator either presses button or a call is automatically triggered to the warehouse when a rack or bin is emptied — operator receives a “call sent” message right on the View tag confirming the part request
- 2 A job request is sent to both the material handler (driver) and the warehouse and displayed on each of their dashboards indicating a new order and pick up and drop off routing location information
- 3 Once the part has been “picked” from the warehouse, the tag is updated to show “Order Picked”
- 4 At delivery, the material handler will either press the button or the automated trigger will reset the tag and indicated that the order has been delivered within the system — removing it from the queue

- 5 Individual part orders, driver routes, delivery status and timing thresholds are uploaded into the system and can be filtered by specific jobs to optimize efficiency and identify pinch-points

Manager Dashboard

ID	Name	Unit	Bin	Bin Location	Bin	Quantity	Quantity	Unit	Current Status	Job Threshold	Driver Threshold	Cancel
48	Assembly No. - Alpha			Assembly No. 7	FL000101	100	100	100	100	100	100	

Driver Dashboard

Job ID	Source	Destination	Quantity	Status
FL000101 - Upper cover hinge	Assembly line 2	100	05/08/2017 9:50:30 AM	02:09:00 DELIVERED
FL000102 - Lower cover	Assembly line 2	100	05/08/2017 9:55:45 AM	02:09:07 PICKED

Visual Factory: Real-Time Instruction and Indicators for Operators

ProVIEW's Replenishment application module improves the communication of information and the accuracy of the process.

- Hands-free operation — no hand held readers are required
- Eliminate FIFO and sequencing errors — the View Tag provides 2-way communication with both visual instruction and operator feedback to confirm order sent and correct delivery received
- Instruct and guide drivers in real-time with dynamic instructions, saving time and directing return material to the correct delivery location

Monitor KPIs: Manager & Driver Dashboards

Smart containers create data never before available for visibility into individual calls, picks and deliveries, helping you to understand pinch-points to ensure efficiency and opportunities for process improvement in real-time.

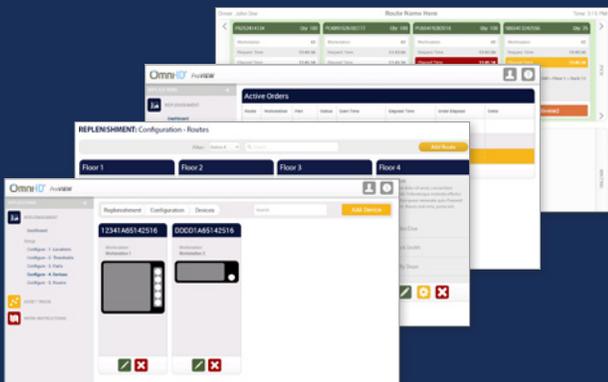
- Mass messaging to Smart Containers enables real time quality alerts or quarantine
- Analyze bottlenecks to improve throughput
- Balance processes and eliminate waste (Muda)
- Connects easily to existing ERP/MES/WMS systems

Simple Setup and Integration

The ProVIEW Replenishment application interacts with your MES/ERP system for setup and configuration of part numbers and locations. The application also provides a robust management system to set thresholds (and alarms) for part request fulfillment and configure location & delivery routes. At the completion of each Replenishment request, process metrics will be uploaded to your system for analysis and planning.

ProVIEW's intuitive graphical user interface (GUI) then allows for simple, guided configuration of the system, including parts customization and mapping of the physical layout of the driver routes and locations.

- The ProVIEW user experience is provided via a web-based (HTML5) interface for simplicity
- Part numbers and their descriptions can be imported from the customer's MES/ERP IT systems, or they can be manually added as needed
- The customer's MES/ERP system may use a file exchange method or it can use ProVIEW REST APIs to communicate with the Pick application module
- Manager dashboards provide bottleneck analysis, warnings and other key real-time data, allowing you to dynamically re-issue instructions or re-balance lines as necessary



ProVIEW Software

Flexible enough to work as a standalone application or integrated into your MES system, this platform allows you to manage all of the tags and devices in your network, dynamically change workflows or work instruction, count WIP items, and drive analytics for improvements. An intuitive GUI and branded, customizable dashboards ensure you have the VIEW you need to effectively manage your processes — real time. QA inspectors can immediately quarantine or clear materials across the facility.

Interested in finding out more? Omni-ID can provide a turnkey solution including the largest line of RFID products, hardware and software along with the professional services to architect and deploy a complete ProVIEW system solution.

Visit www.omni-id.com to learn more about the complete line of Omni-ID RFID products.

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