

Omni-ID<sup>®</sup>



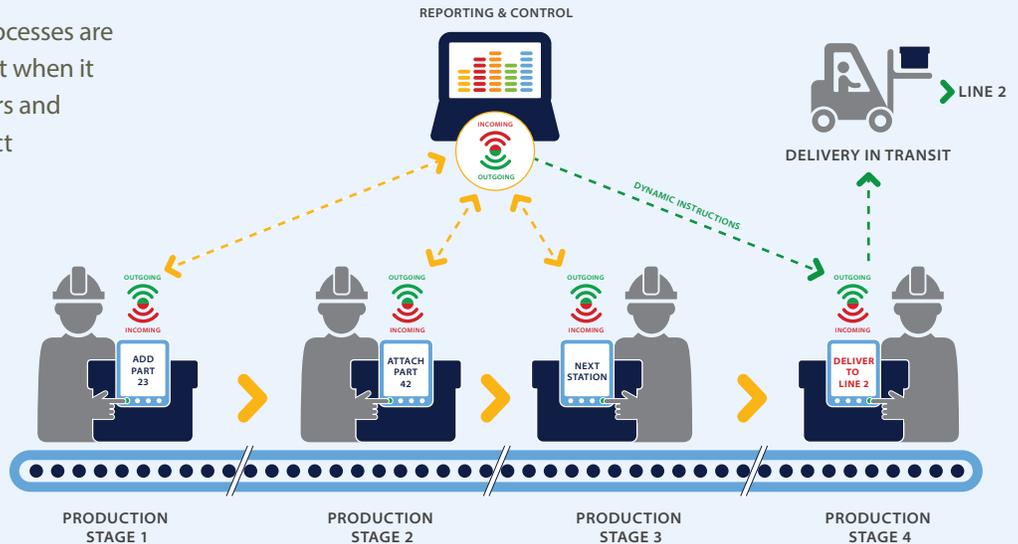
# Container Management

## Application Module

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

# Always get the right parts to the right place at the right time with ProVIEW

Paper-based or other manual processes are highly error-prone and inefficient when it comes to locating your containers and ensuring they arrive at the correct destination. Whether it be finding an empty container to begin a job, delivering parts or finished goods ProVIEW's Container Management ensures you know where all your materials are — at any time during the process — with a wireless View Tag on each container.



## The Visual Factory

Containers are the most effective way to transport materials through a manufacturing environment and will be the key to achieving Smart Materials — a core tenet of Industry 4.0, the IoT initiative for manufacturing.

- View tags provide visual instruction for individual containers
- Hands-free, simple communication between “smart containers” and humans at key points of interest in the process ensures correct instruction and delivery providing higher quality and error reduction

## Standard Work

Self-directed or “smart containers” are location aware to provide real-time, accurate operator instruction based on each process step or location.

- Little to no training or retraining is required View tags tell operators exactly what to do
- A simple button push by operators begins a new job or verifies process completion

## Location Services

Full visibility and control of individual containers as they move through the process enables reallocation or re-direction as bottlenecks occur.

- Alerts operator when container has arrived at wrong location
- Counts empty containers and allocates to process stations in real time

## Manager Dashboards and Reporting

Dashboards provide location, delivery data and alerts to analyze process performance in real-time

- Identify bottlenecks to improve throughput
- Balance processes and eliminate waste (Muda)
- Connect easily to existing ERP/MES/WMS systems

# The ProVIEW Difference:

## Enabling Smart Manufacturing for an IoT World



You'll never lose another container again or deploy personnel to manually find them to apply new instructions — saving you both time and money. ProVIEW's container management module combines the power of RFID technology and e-paper (View Tags) to provide location and automated instructions to individual containers.

**One System:** ProVIEW's Container Management module works together with its Pick, Replenishment and Work Instructions modules for a complete material flow management solution — giving you the visibility you require all the way through your production process.

### How it Works

- 1 Smart containers are visible with location and state via the ProVIEW dashboards.
- 2 Available containers are allocated to a job or work order.
- 3 Smart containers display instruction and move through the process based on configured location rules; when the process is complete they revert automatically to "available" or another predefined state.

- 4 When a container moves from the "available" state to allocated or "in use" state, the container usage count is incremented by the system, and once the container reaches its maximum use will display a message indicating that the container is due for removal or maintenance.



Dashboard available as map or list view of container location and availability.



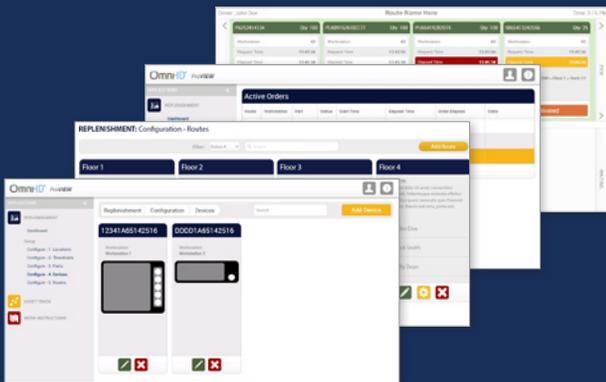
## Simple Setup and Integration

The ProVIEW Container Management module interacts with your system for initial setup and configuration, job downloading and uploading of process metrics.

ProVIEW's intuitive graphical user interface (GUI) then allows for simple, guided configuration of the system, including container allocation and mapping of the physical layout of the area.

- The ProVIEW user experience is provided via a web-based (HTML5) interface for simplicity
- Containers and their associated RFID tags can be imported from the customer's MES/ERP IT systems, or they can be manually added as needed

- The ProVIEW Container Services application provides a robust management system to configure the system, including: Locations, Container Types, Containers, View Tags associated with Containers, and more
- ProVIEW will make REST API calls to the customer's system to notify them of critical events such as a change in a container's location or state
  - Container state can be changed using the customer MES/ERP (REST API) or via the ProVIEW GUI
- Dashboards provide a view of all of the containers in the system in either a list or map form, along with the current state for each, including container ID, location, state, job number and status



## ProVIEW Software

Flexible enough to work as a standalone application or integrated into your 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](http://www.omni-id.com) to learn more about the complete line of Omni-ID RFID products.

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