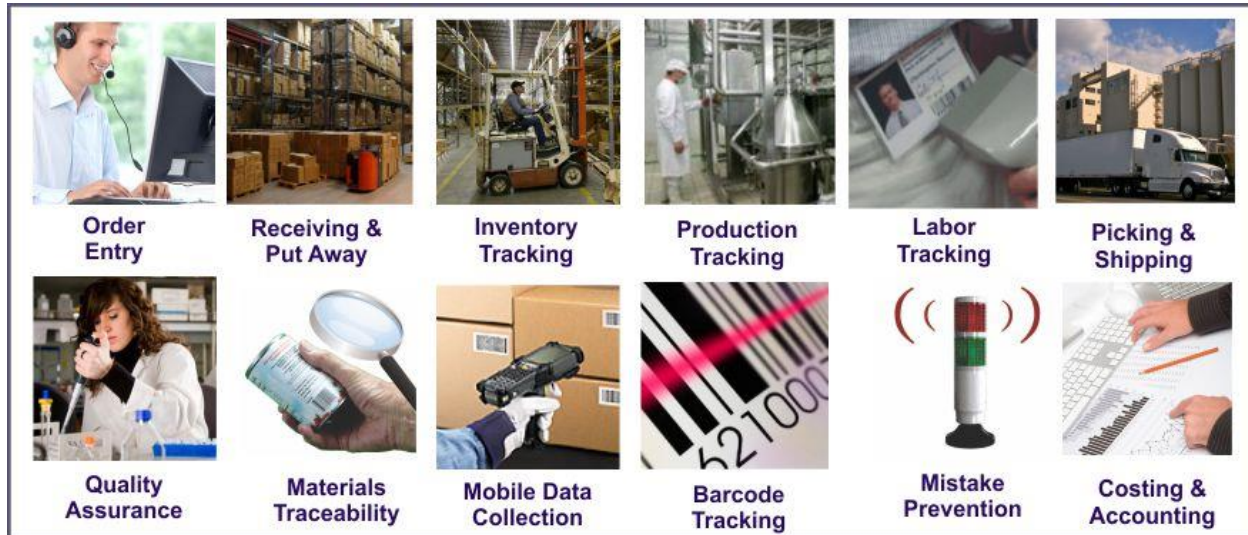




BellHawk Software Overview Data Sheet



BellHawk is Real-Time Industrial and Operations Tracking and Management Software. It is used by manufacturers and distributors, as well as other industrial organizations, to track the flow of jobs and materials through their manufacturing plants and warehouses in real-time.

Construction



Manufacturing



Distribution



Defense



Pharmaceutical



Food Processing



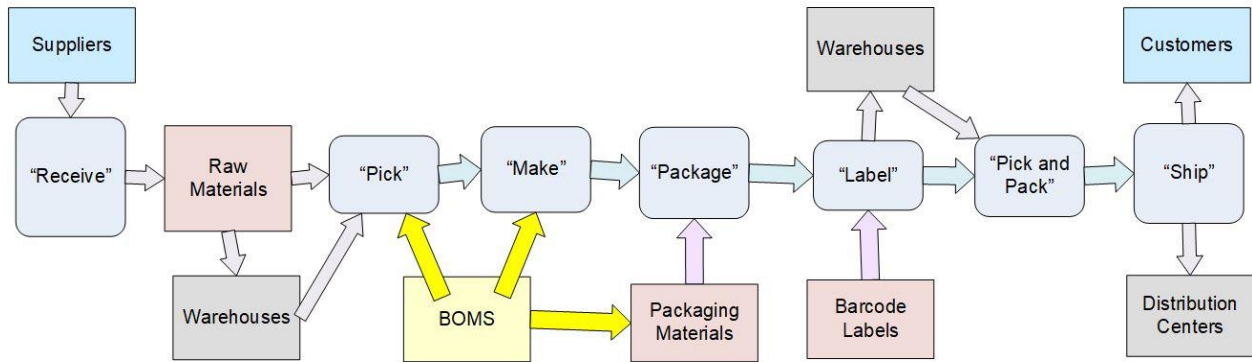
Medical Supplies



Cosmetics



BellHawk provides an Integrated Operations Tracking & Management Solution which can be used stand alone or automatically exchange data with a wide variety of ERP/Accounting and Engineering Design/CAD software



Bel BellHawk tracks the receipt and put-away of raw materials, their transformation into finished products, including tracking work-in-process, as well as the picking, packing and shipping of finished products to customers.

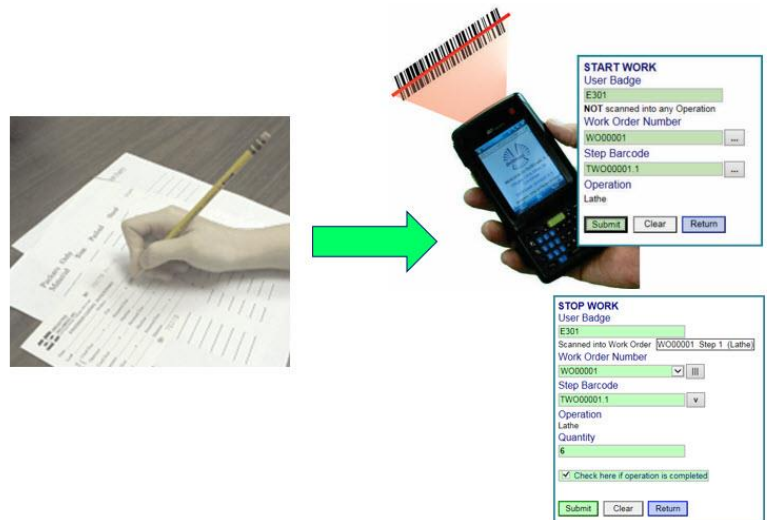
This can include tracking individual containers, serialized parts, assemblies, and kits, as well as nested materials on pallets.

The captured tracking data can be used to trace back from defective products to suspect raw materials and from defective or contaminated raw materials to defective products and who they were shipped to.

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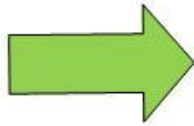
This is in contrast with requiring these people to do direct entry into ERP systems or even Excel spreadsheets, which are designed for office use, and can result in many data entry mistakes. Or, even worse, having these people write operational data down on paper forms for entry into ERP systems by office staff on the following day.





By automating data collection, using barcode scanning, BellHawk can quickly pay for itself by saving the labor of multiple people who would otherwise spend their time filling out paper forms, entering data into Excel spreadsheets, or manually entering data into ERP or other systems.

Also, because data is captured in real-time by people doing the work in manufacturing plants and warehouses, BellHawk is able to generate point-of-action warnings, in real-time, to prevent both operational and data entry mistakes being made. This can save substantial time of managers and their staff trying to correct these mistakes after the fact, as well as losses due to rework or recalls.



Because data is captured in real-time, BellHawk is able to provide production managers with a real-time status of all their jobs and materials managers with a real-time status of their inventory. This helps ensure that corrective action can be taken, when needed, to ensure that customer orders are shipped on time.

BellHawk can also monitor the status of jobs and materials in real-time and issue warnings by Email or text-messages to managers and staff when jobs are running late or stock-outs are about to occur.

In addition, BellHawk can dynamically schedule which tasks people work on next, to ensure that customer orders get shipped on time and that people do not cherry-pick the easy tasks, to the detriment of production schedules.

BellHawk can track the quality control (QC) status of materials to make sure that they pass inspection before they are used or shipped to customers. BellHawk can also track defective materials to ensure that they are appropriately quarantined.

| Work Order Selection | | | | | | | | | | | | | |
|-------------------------|-------------|--------------|-------------|-----------------------|---------------------|------------------|----------------|-------------------|----------------------|--------------|--------------|--------------|-------------|
| User Badge E303 | | | | | | | | | | | | | |
| Work Center: Production | | | | | | | | | | | | | |
| Scheduled Date | Importance | WO Number | Step Number | Operation | Machine | Item | Quantity on WO | Quantity Complete | Customer | Order Number | Date Release | Wanted Date | Status |
| Apr 19 2017 | Rush | BWRK00000008 | 1 | Slit Coated Rolls | | SGR6 | 1000 | 0 | BellHawk | | Apr 19, 2017 | Apr 19, 2017 | Ready |
| Apr 24 2017 | Rush | BWRK00000001 | 1 | Slit Coated Rolls | | SGR6 | 100 | 50 | Smithfield Printing | SO1002 | Mar 09, 2017 | Apr 25, 2017 | In-Progress |
| Apr 25 2017 | Rush | BWRK00000006 | 1 | Coat Rolls of Paper | | GCR12 | 15 | 0 | Smithfield Printing | | Apr 19, 2017 | Apr 25, 2017 | Ready |
| Apr 26 2017 | Standard | BWRK00000003 | 1 | Slit Coated Rolls | | SGR6 | 12 | 0 | Smithfield Printing | | Apr 19, 2017 | Apr 19, 2017 | Ready |
| Apr 27 2017 | Standard | BWRK00000005 | 1 | Coat Rolls of Paper | | GCR12 | 15 | 0 | NH Printing | | Apr 19, 2017 | Apr 28, 2017 | Ready |
| May 1 2017 | Standard | BWRK00000007 | 1 | Slit Coated Rolls | | SGR6 | 4 | 0 | BellHawk | | Apr 19, 2017 | May 03, 2017 | Ready |
| Apr 17 2017 | Low | BWRK00000002 | 1 | Slit Coated Rolls | | SGR6 | 20000 | 0 | Smithfield Printing | SO1002 | Mar 09, 2017 | Apr 24, 2017 | Ready |
| | --- Any --- | | | --- Any Operation --- | --- Any Machine --- | --- Any Item --- | | | --- Any Customer --- | | | | |

In addition, BellHawk can reschedule operations in real-time, to dynamically recommend which tasks people should work on next, to help ensure that customer orders get shipped on time.

This is instead of assigned tasks being based on an already outdated schedule from the morning’s production planning meeting, or even worse, from an ERP system’s weekly or monthly schedule which is, by now, hopelessly out of date

This saves production managers from micro-managing what each person works on next and automatically compensates for operations on jobs that running late.

It also helps ensure that people do not cherry-pick the easy tasks to work on, to the detriment of promised deliveries.

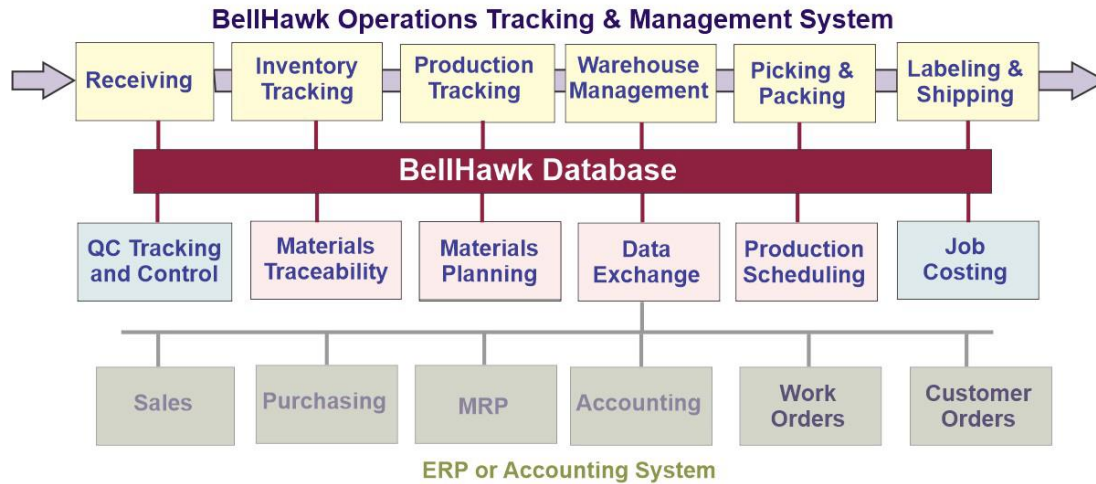
BellHawk can track the quality control (QC) status of materials to make sure that they pass inspection before they are used in production or shipped to customers.

If a BellHawk user scans the barcode of a container of materials that has not passed QC inspection they are warned not to use, pick or ship this material. The same applies if the materials are past their expiration date.



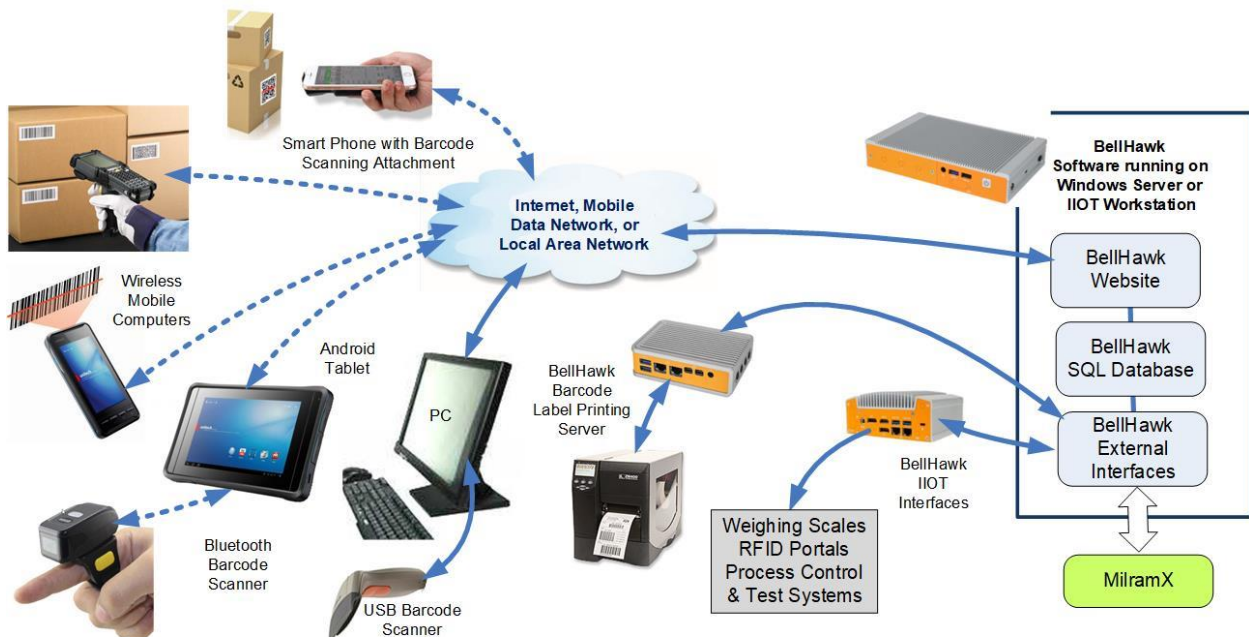
This can prevent serious operational problems, which can lead to costly rework and recalls.

BellHawk can also track defective materials to ensure that they are only moved to quarantine area before being disposed of.



BellHawk is modular. Organizations can start out using BellHawk to just track the status of jobs or the receiving of raw materials and then turn-on other modules to increase the capabilities of their BellHawk system without needing to change systems.

As a result, BellHawk is affordable, with systems starting at a few hundred dollars a month, making BellHawk an ideal choice for smaller and mid-sized industrial enterprises. Equally, BellHawk is expandable to be able to incorporate multiple plants and warehouses into one cohesive system as organizations grow.

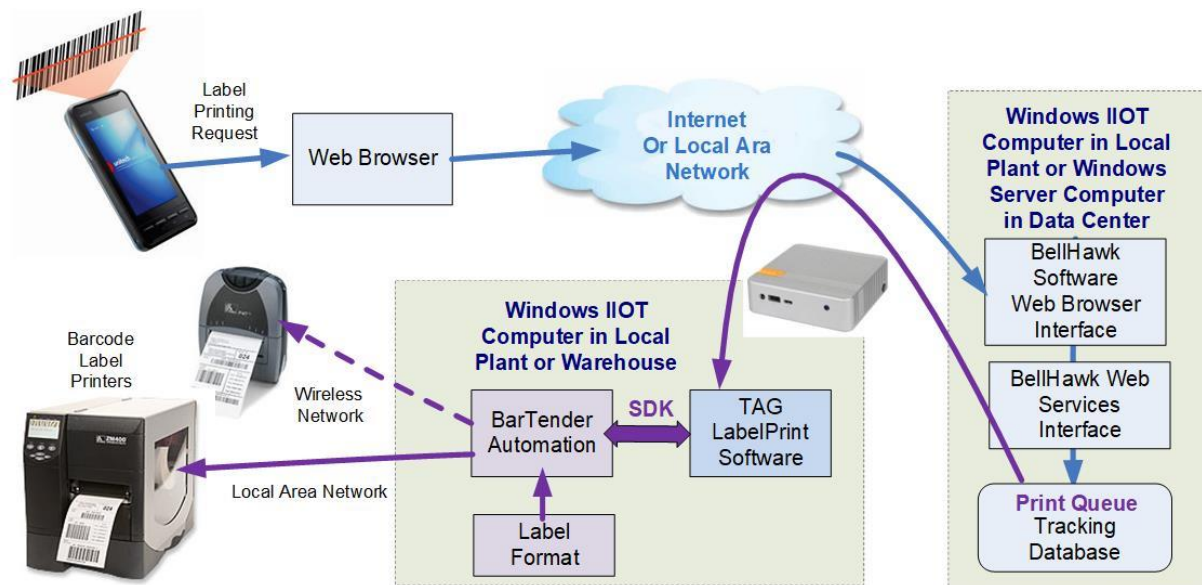


BellHawk consists of a specialized website, plus a SQL database, plus a variety of external interfaces. For simplicity, BellHawk can be used on a Windows Server “in the Cloud” at a remote data center.

Alternately, BellHawk can be used on ruggedized Windows industrial internet of things IIOT computers, within each plant or warehouse, where maximum reliability, and the ability is required to continue operations when the Internet goes down.

Also, IT support is minimized, by the use of a web-browser based user interface which eliminates the need to load and maintain any special software on the PCs, tablets, mobile computers, and other devices used to capture data in real-time.

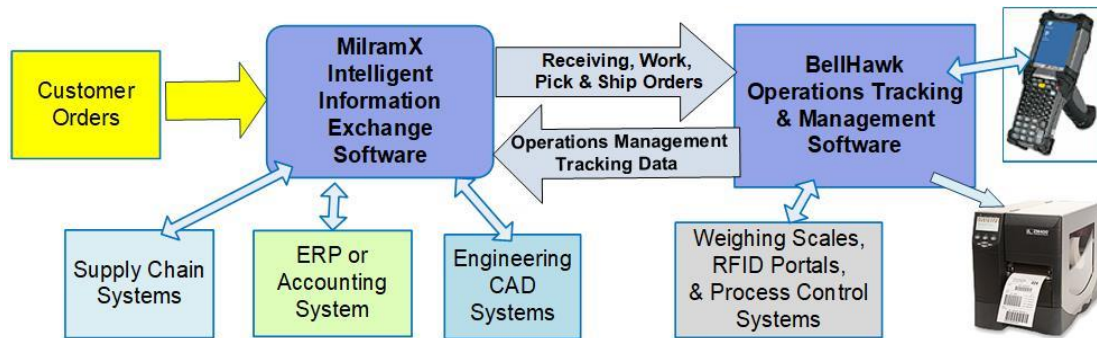
In addition, BellHawk supports automated collection of materials movement using RFID scanning and automatically capturing data from weighing scales. BellHawk can also exchange data with process control lines and test stands to feed setup and labeling data, as well as to capture process and test data.



BellHawk’s TAG barcode labeling option enables mobile computer users to request that barcode labels be printed out as part of their normal production tracking transactions, even though they may be thousands of miles from the server on which BellHawk is running.

The label request is sent over the internet to the server where a set of situation specific rules select the printer, the label format, and retrieve the needed data from the BellHawk database. This information is then placed in a print queue on the server from which it is picked up by the TAG software running on a ruggedized IOT computer in the plant or warehouse where printing is needed.

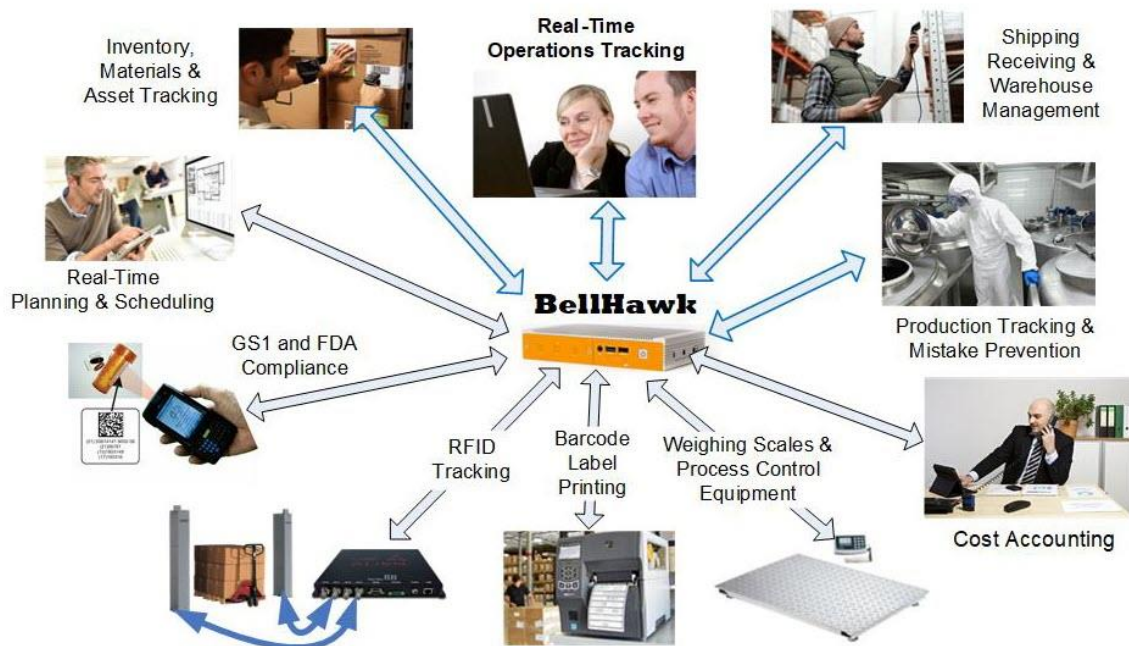
TAG then calls the BarTender software, also running in the IOT computer, to print out the requested labels, at high speed on a local label printer. This can include printing labels on a portable printer attached to the mobile computer user’s belt, if needed.



BellHawk can be run stand-alone or used in conjunction with the MilramX software to automatically exchange information with other systems.

MilramX is able to intelligently translate an incoming flow of customer orders into work orders, picking, and shipment orders to be scheduled and tracked in BellHawk, as well as exchanging BellHawk data with ERP or accounting systems. This can include exchanging data with engineering computer aided design systems as well as upstream and downstream trading partners.

MilramX can be run on the same computer as BellHawk or MilramX can be used in the Cloud to integrate operations at multiple warehouses and manufacturing plants each running BellHawk on a separate IIOT computer.



In summary, BellHawk is an affordable and simple to use integrated real-time data collection, work-in-process, inventory, asset, materials tracking and traceability, barcode labeling, and operations management software that is integrated into one system which can be used stand-alone or as a front-end to a wide-variety of ERP systems or accounting systems such as QuickBooks.