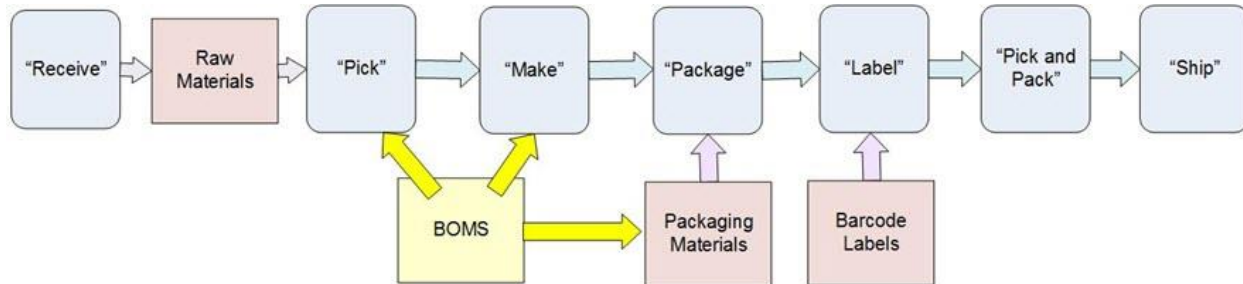


## Data Sheet for BellHawk Online Materials Tracking and Traceability System (MTTS) Bundle



### MTTS Overview

The BellHawk Online Materials Tracking and Traceability System (MTTS) bundle is an affordable barcode tracking system that can be used for a wide range of materials tracking and traceability applications. This bundle is comprised of the RT-OPS base system plus the QC and Materials Traceability modules.

MTTS tracks the transformation of raw materials into finished products and builds a traceability history relating the finished product to all the raw and intermediate materials that went into their manufacture.

BellHawk Online MTTTS replaces the use of paper forms and manual keyboard data entry with the use of barcode technology to reduce the amount of labor required for record keeping as well as preventing mistakes.

Applications include tracking and tracing the manufacture of:

- Aerospace, defense, and automotive subsystems and components
- Critical building or construction components
- Pharmaceutical products
- Food, beverage, supplement, and veterinary products
- Medical devices and supplies

MTTS is also used for tracking the repair of systems and components that could impact human health or safety such as airplane subsystems, telecom assets, and medical instruments.

BellHawk Online MTTTS enables rapid trace back from defective products to the components and raw materials used in their manufacture or repair. It also enables rapid tracing forward of all effected products that incorporate potentially defective parts or raw material lots.

BellHawk Online is specifically designed for use by small to mid-sized organization and costs much less to implement than using materials tracking and traceability systems designed for use by large organizations.

## MTTS Capabilities

MTTS builds upon the capabilities of the BellHawk Online Real Time Operations Tracking System (RT-OPS). Please see the data sheet for the BellHawk Online (RT-OPS) for details.

MTTS adds the following capabilities to the BellHawk Online (RT-OPS):

1. Ability to interact with the system to trace back from defective product to possible causes
2. Ability to trace forward from defective raw materials or ingredients to determine in which products these raw materials were used and who they were shipped to.
3. Tracking the quality control status of materials (passed, failed, needs inspection) and using this to prevent the use or shipment of defective product.
4. Compliance with 21 CFR Part 11 and EU Annex 11 to enable FDA cGMP validation in medical device and supplies manufacturing, repackaging, and repair applications.

BellHawk performs "license-plate" tracking of containers of material and individually tracked serialized items, such as pharmaceutical products and medical instruments. It can also track nested containers of material, such as serialized items with unique tracking barcodes, inside boxes with GS1 compliant tracking labels, stacked on pallets, also with GS1 compliant tracking barcodes.

This enables BellHawk to be compliant with requirements, such as those of the FDA, USDA, and HAACP, as well as those of ISO standards, and agencies such as the FAA for repair operations, when used to collect and maintain traceability history records.

As well as tracking raw, intermediate and finished materials, MTTS tracks work-in-process materials. BellHawk also tracks who worked on each operation of each work order and what equipment was used as well as what quality control tests were performed and their outcome.

MTTS can also store formulas and bills of materials and use these to prevent mistakes in picking or using the wrong materials for making intermediate and final products. BellHawk can also help ensure that the correct packaging is used.

MTTS tracks lot numbers as well the expiration date of each container of material or serialized item. It uses this data to warn operators when they are about to use materials that are past their expiration date. BellHawk can also use this data to help prevent the mixing of lots when needed.

With the optional BellHawk Online Warehouse Management System (WMS) module, MTTS can import purchase orders (POs) from ERP or accounting systems and track the receipt and put-away of raw materials against these POs. It can also import customer orders and use these to generate pick orders for picking and shipping the finished products as well as generating work orders to make products to order.

For more information: Please contact [Sales@BellHawkOnline.com](mailto:Sales@BellHawkOnline.com) or call 774-708-9607 or see [www.BellHawkOnline.com](http://www.BellHawkOnline.com) for more details