

Real-Time Job and Materials Tracking Software



www.BellHawk.com

Using BellHawk as a Job Tracking System

Overview

BellHawk can be used as a Job Tracking System (JTS). The intended users of JTS are smaller organizations that need an easy-to-use, cost-effective way to track their manufacturing operations.

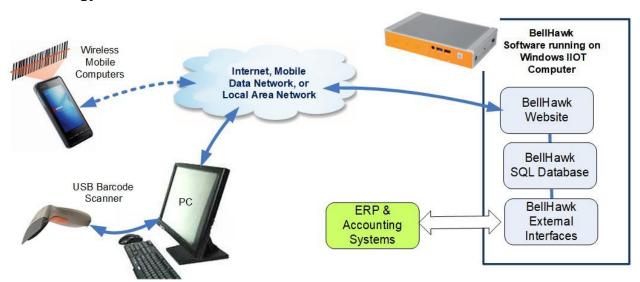
JTS is a simple-to-use system that uses barcode scanning to track the progress of work orders through a sequence of operations. SPTS also captures the labor expended by individual people or teams on each operation.

JTS is designed for use in manufacturing, fabrication, engineering, construction, assembly, repair and other industrial organizations.



JTS gives a real-time view of the status of work-in-progress and captures the labor expended for subsequent analysis. Management users can print out reports or download Excel exports giving the status of work-in-progress and showing how long work orders are held up between operations.

Technology



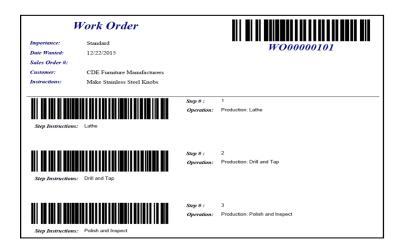
The BellHawk data collection software consists of a specialized website and a SQL Server database that run on a Windows IIOT computer. It can also be run on a Windows Server computer, at a remote data center in the USA. All user interaction is performed using webbrowser based devices thereby avoiding the need to install custom software in each device.

Barcode data collection can be performed using devices such as PCs or ruggedized mobile computers, with integral barcode scanners. Data viewing, in the form of screens and reports, can also be performed using these same devices, as well as smart-phones.

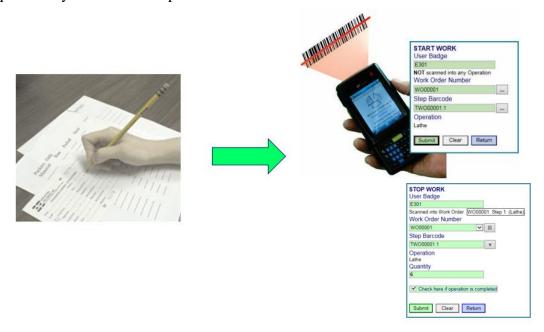
How JTS Works

With JTS, users can set up production routes, and then use these to print barcoded travelers, as shown here, on an office printer. These travelers can be scanned to track batches of material or individual items.

Operators can record the start and end of each operation by scanning the barcodes on these travelers. This includes recording their labor start and end times by scanning a barcode attached to their badge. They can also, optionally, record the quantity produced or processed during this time.



JTS enables organizations to easily transition from using paper forms and manual keyword data entry to having their employees directly capture work order tracking data on the shop floor. The biggest advantage of this transition is to enable managers to see the status of all their jobs in real-time so they can easily spot jobs that are in trouble or need extra attention. It also enables subsequent analysis of the labor performance of different workers.



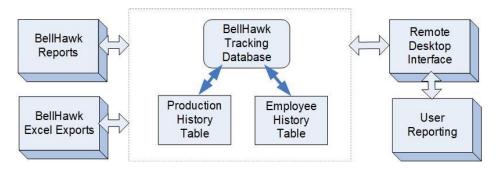
JTS is designed for use by shop-floor workers who have limited computer literacy. By using barcode scanning manual data entry is minimized. Also, JTS warns users if they make a data collection mistake and allows immediate data correction. JTS only captures the minimum data needed for each tracking situation. This minimizes training time and eases the introduction of data collection technology to the shop floor.

JTS enables the recording of time actually worked, as separate from the elapsed time to complete each operation, by enabling users to scan-out when they go on break or their shift ends. SPTS can also allocate labor time when someone is working on multiple work orders at the same time.

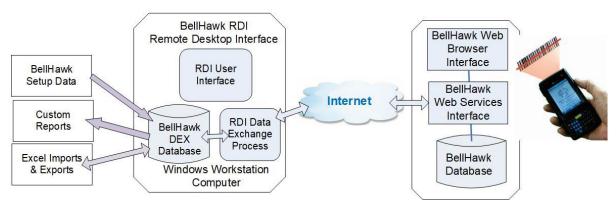
Managers, supervisors and customer support people, can then see the status of all the work orders in real-time, including how long each work order has taken or has been held-up, since completion of the last operation, waiting for the next operation to begin.

Managers are able to download Excel exports showing the progress of work orders, the elapsed time for each operation and how much labor was required. They are also able to get a labor report by work order or employee showing the amount of labor time, elapsed time, and quantity produced for each operation on the job.

JTS comes with a set of standard reports, in the form of PDF or Excel exports.



But, for those JTS users who need custom Excel exports or to create their own custom reports, the Remote Desktop Interface (RDI) is available.



The RDI software uses the free Microsoft SQL Server Express database server to create and maintain a copy of selected tables within the BellHawk database on a local data exchange database (DEX) on a user's desktop PC. Users can then use Excel to create their own exports from this database or can use third party reporting software, or programs written in a language such as Python, to generate their own custom reports from the DEX database.

With the RDI, data written into the DEX database can also be automatically exported to BellHawk enabling the transfer of setup data as well as work orders into the BellHawk database from Excel spreadsheets.

For more information about JTS please see www.BellHawk.com.