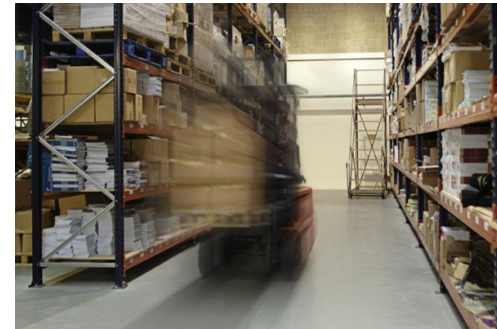
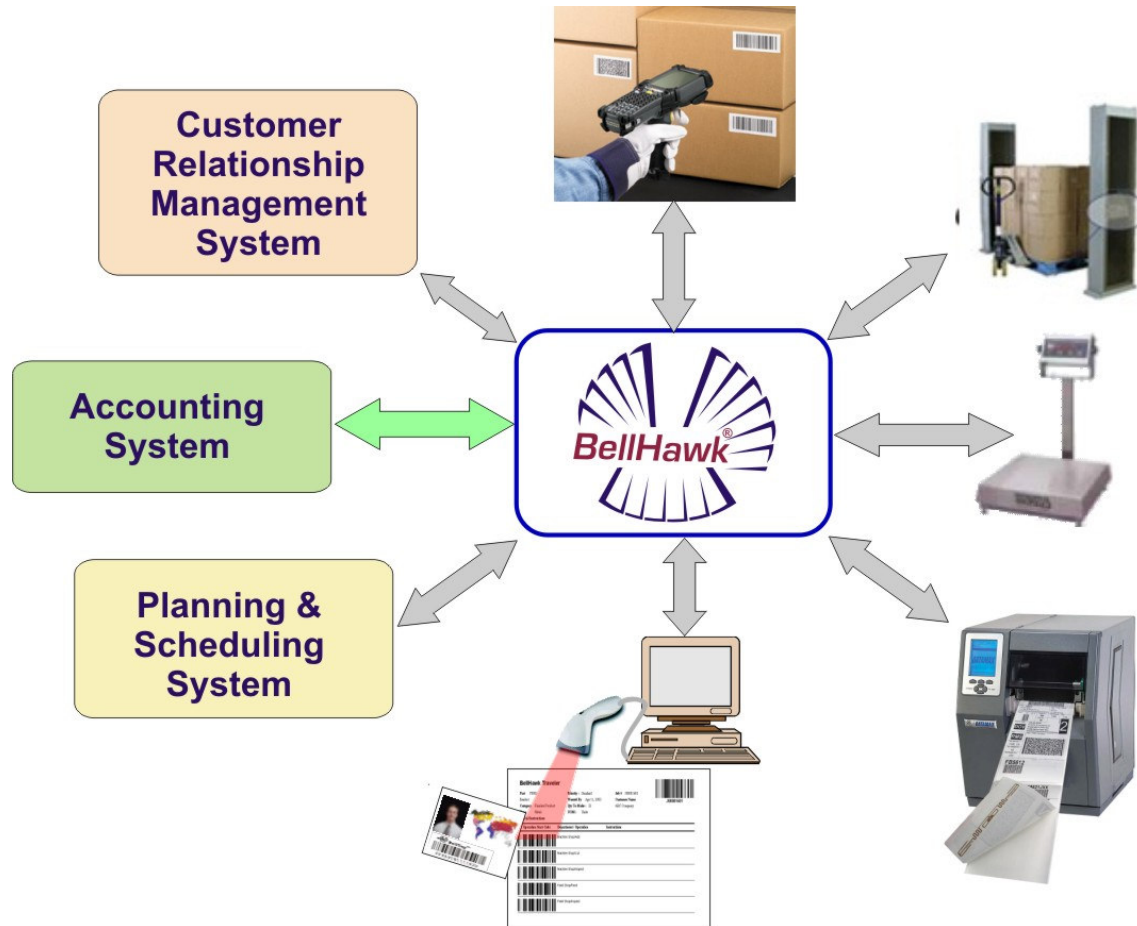


Barcode Tracking from Client Server to the Cloud



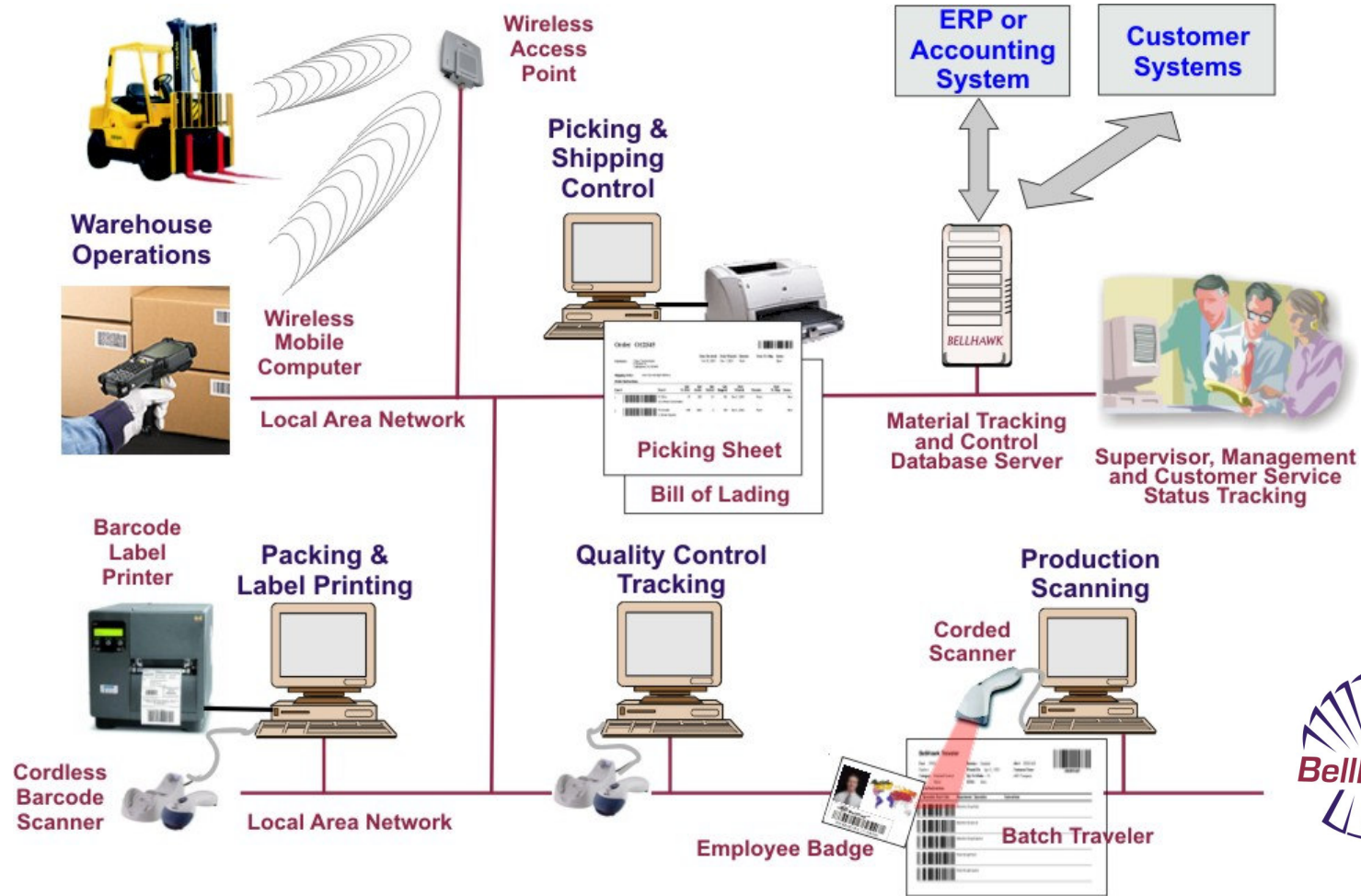
Dr. Peter Green
(508)-865-8070 x301
45 River Street
Millbury, MA 01527
Peter.Green@BellHawk.com
www.BellHawk.com

Providing Innovative Tracking Solutions since 1989



Also need to Integrate with Process Control systems and Test Equipment

Client Server Architecture



Need Point-of-Action Validation

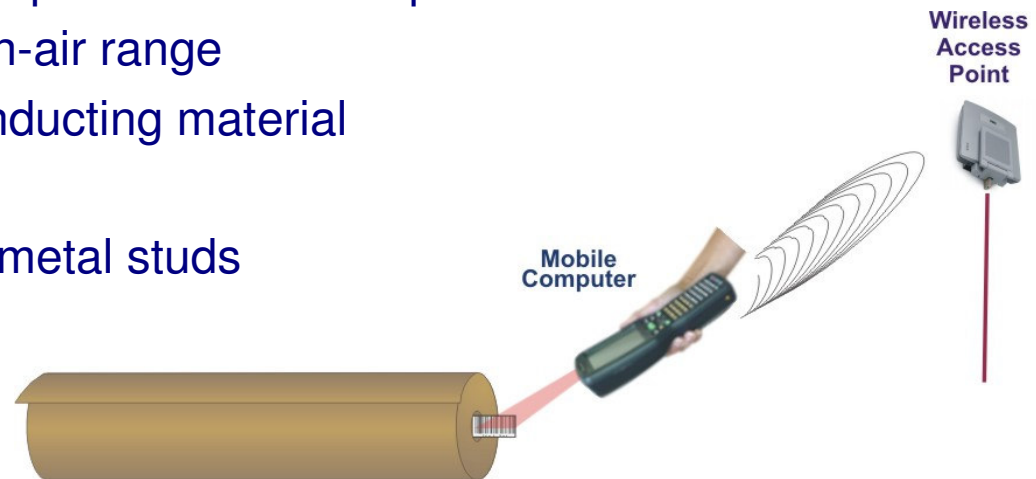
- For Mobile Workers
- Needs Real-Time Communications to Database

Wireless waves travel in straight line

- Between mobile computer and access point antenna
- About 300 foot open-air range

Wireless waves blocked by conducting material

- Metal racking
- Walls with rebar or metal studs
- Containers of liquid
- Conducting solids
- Fork-lift trucks
- People



Get Blind Spots and Dropped Communications

- Interference from Machinery and Industrial Processes

Two Alternatives

- Terminal Mode/Client-Server/Web Server
- Store and Forward

Terminal Mode/Client-Server/Web Server

- Database is on server
- Needs complete wireless coverage
- Slow in response



Store and Forward – BellHawk BSAF

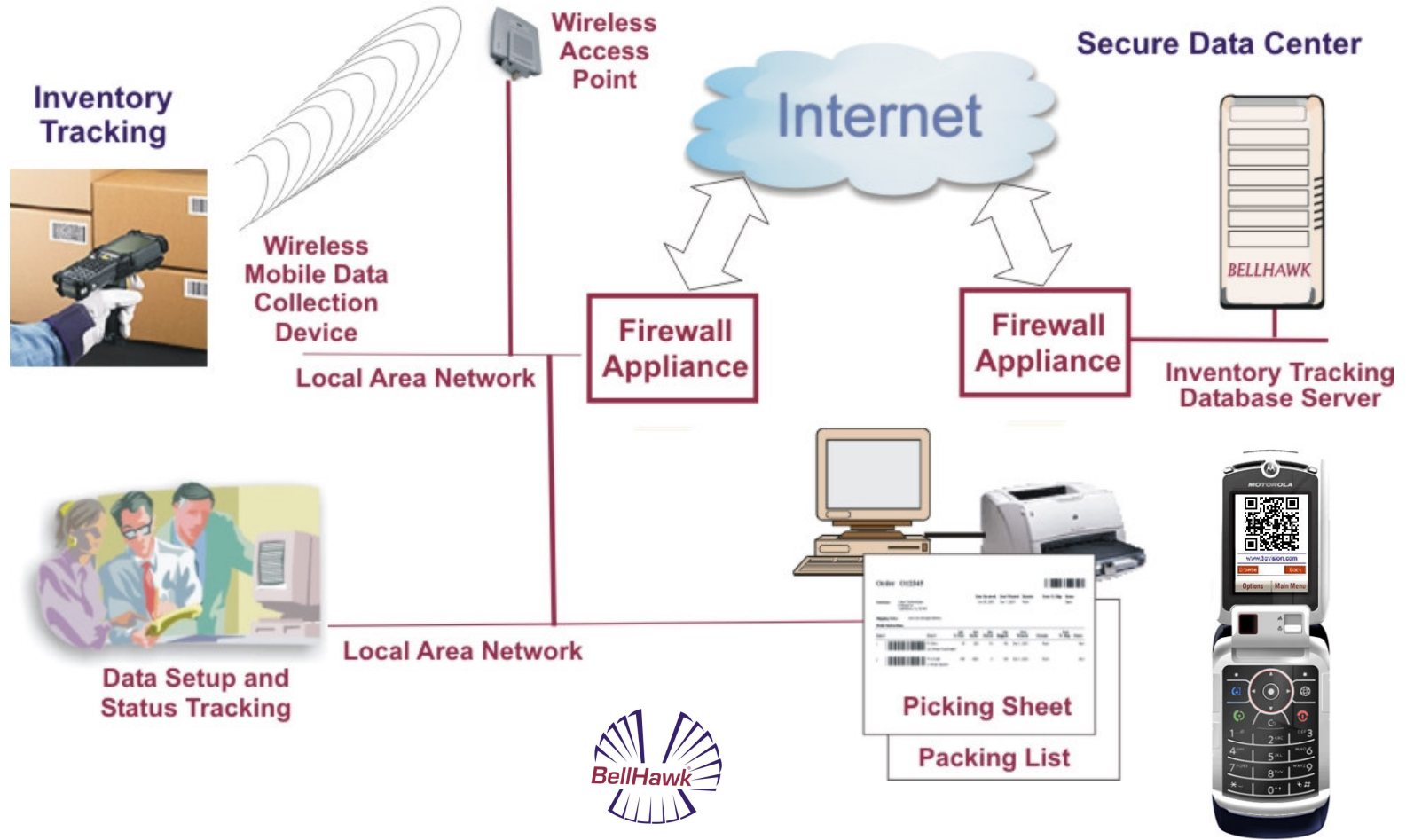
- Database in Mobile Computer
- Update when access point “visible”
- Rapid response to user inputs



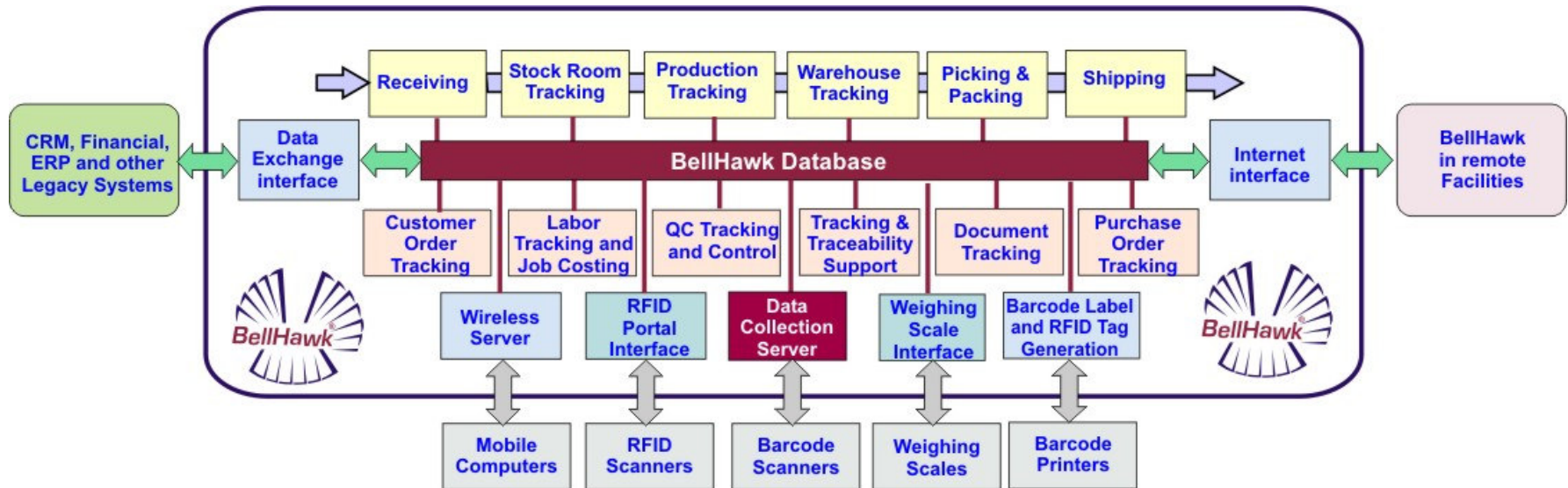
Store and Forward can also be used:

- In yards and off-site storage locations
- For field data collection – cell data network
- At remote sites – over the Internet

Web-Based Barcode Tracking



BellHawk Software Modules



Comprehensive tracking and data collection solution
 Modular – just purchase the modules you need
 Customizable – Source Code or Customization Service
 Integrates with most Financial, ERP and other Legacy Systems

Specialists in implementing barcode tracking and mobile data collection solutions for industrial, commercial and Government clients.

1. Many years of experience in assisting clients to implement real-time barcode tracking and mobile data collection solutions.
2. Standard software modules that can be configured to provide a wide variety of labor and inventory tracking solutions that work out of the box.
3. A cost-effective customization service to tailor the software to the exact business needs of our clients.
4. Software tools to rapidly implement interfaces to a wide variety of ERP, accounting, CRM, process control and test systems.
5. Store and forward wireless mobile data collection technology to ensure reliable operation in difficult environments.

We provide cost-effective technology solutions to operational problems.

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