Echo WCS™

— HIGHLIGHTS —

- Table-driven control software permits owner shifts in workflow

- Routing and flow control of packages and pallets

- Sorter and accumulation control with scanner interfaces

- Unlimited device connectivity

- Graphical displays detail warehouse activity and equipment status

- Eliminates database reorganization requirements

- Preserve existing application modules

- Create new Web-based interfaces and displays

- Relational database friendly

BoxWorks Technologies, Inc.

2065 W. Parkway Blvd

Salt Lake City, UT 84119

(801) 214-6100

www.boxworks.com

Echo WCS™ optimizes and controls your automated warehouse equipment. Incorporating a full inventory module, Echo WCS can provide integrated control of your warehouse, or operate as an execution system under the direction of your WMS.

Echo WCS™ from BoxWorks Technologies, Inc. can take your warehouse operations to the next level. This warehouse execution software interfaces to your automated equipment including conveyor, sorters, carousel, ASRS and AGV to get the most from your equipment and personnel.

Full inventory control capability permits optimum control of warehouse workflow and reporting to accomplish your daily operations in fewer hours. *Echo WCS™* is specifically designed to be backward-compatible with existing Phoenix™ and System 2300™ software systems. *Echo WCS™* allows owners of existing systems to upgrade their software and hardware without the interruptions and downtime normally associated with new software. Take advantage of the integration and networking capabilities of relational databases without affecting your proven software.

Echo WCS may also be deployed in new applications for responsive equipment control and inventory management.

— FEATURES —

- Integrates With Existing WMS

- Web-Based Capabilities Enables Access From Any Browser

- User Security and Preferences includes Group Level access control

- Drop-in Replacement for Phoenix™ and System 2300™ Software Systems

- Pre-tested Equipment Interfaces

- Linux/Unix Operating System Compatibility

- Full suite of interfaces including ASRS, Conveyor, AGV, Carousel, Sorter, Pick-to-Light, RF

Core Technology:

- cTree Server, Oracle, MySQL, MSSQL Database Connectivity
- User Dialogues via standard web browser
- Unix/Linux Operating System
- Economical and Reliable x86 Server-based computer hardware
- Network device connectivity to eliminate device switching
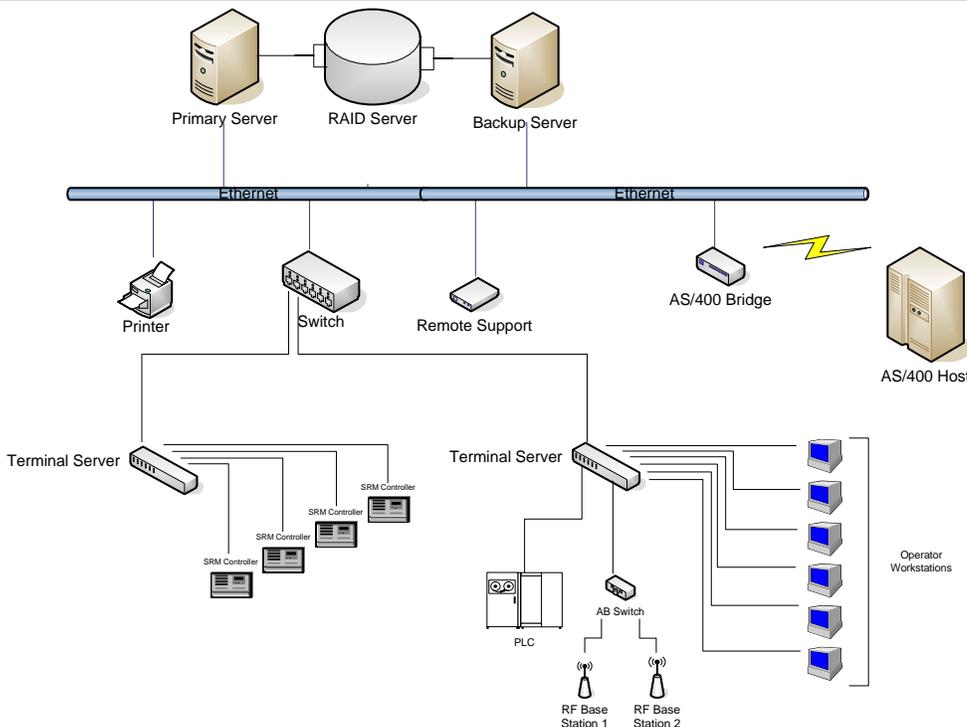- Enhanced user and dialogue security including user groups

Echo WCS™

INSTALLATION AND USAGE METHODOLOGY

Echo WCS™ software runs on a Unix- or Linux-based PC server. The database application may be resident on the same server, or may be configured on a separate database server for enhanced transaction performance. The base Echo WCS software and your selected database server is installed and the system build scripts executed to completely update the software. Echo WCS is backward compatible with Phoenix/System 2300 application software and will run without modification. Computer hardware and communication upgrades can be installed and pre-tested to permit a seamless transition to the new system.

System reliability and availability is enhanced with Ethernet device communication. Network-based communication to scanners, device controllers and PLCs eliminates the need to switch communications when transferring control to a backup server. Network native devices are directly connected, or reliable terminal servers are installed to support serial devices. All communication from the Echo WCS server is directed over the high-speed network. Failover to a backup server can be accomplished with a simple push button. No devices to switch, no cables to disconnect, no drives to dismount.

BoxWorks can also provide the computer equipment and software for purchase as part of a complete controls solution. A typical system configuration is illustrated below. See your application specialist for details.

As part of system enhancement, BoxWorks can add new functions and features including web-based reports and user dialogues. Gain access to all your mission critical information from anywhere on your corporate intranet.

Effective warehouse optimization requires robust software able to support all of your optimization needs. Your warehouse must adapt to changing demands brought about by labor shortages, Internet commerce, dynamic markets, increasing cost pressures, import cycles and higher performance requirements. If not addressed properly, these demands can adversely affect warehouse efficiency and the bottom line. Echo WCS™ software can help you achieve and maintain peak operational efficiencies in your facilities.

BoxWorks Technologies, Inc.
4190 S Highland Drive
Suite 250
Salt Lake City, UT 84124