



## Warehouse and Distribution

THE POWERFUL COMBINATION OF BARCODE/RFID, WIRELESS AND MOBILE COMPUTING IMPROVES YOUR WAREHOUSE MANAGEMENT SYSTEM BY CREATING ENHANCED TRANSACTION SPEED AND ACCURACY.

Datanet eliminate manual inventory counting, warehouse mispicks and data entry errors by supplying hardware to create an integrated information system. Datanet solutions are purpose built to increase the efficiency and accuracy of core warehouse functions.

### Inventory Identification

In traditional warehouse operations, goods are either coded at point of manufacture or labelled on site, upon receipt. Items may also need re-identification as they flow through the warehouse, such as smaller lot configuration and repackaging.

DATANET supply and support a range of industrial and mobile printers and labelling materials. Easy to use label design and management software assists to uniquely identify locations and inventory for standard or hostile environments and products.

DATANET can assist identification of inventory by coding items without pre-existing labels by applying barcodes or RFID smart tags. Correlating positions in the warehouse are then coded for all items. This enables inventory to be verified with a simple scan. This operation supports receiving, cross docking, repacks, picking and shipping operations.

### Wireless Network

DATANET is reliable in accurately identifying materials and inventory, and provides the connectivity to exchange information in real time. DATANET wireless engineers place strong emphasis on maintaining network security, whilst designing and implementing solutions to provide a balance for voice and data requirements.

### Inventory Tracking - Mobilising your Warehouse Management System.

The Power of the Warehouse Management System (WMS) on your handheld!

DATANET empowers your workforce by replicating your WMS on mobile computers.

DATANET supply and support wired and wireless scanning devices with the option of handheld and hands free devices. Handheld terminals are complimented by a wide range of vehicle mount devices available for fork trucks, picking trolleys and pallet trucks.

Mobile label printing is achieved through "on person" or vehicle mounted mobile printers using RF connectivity.

Through the selection of handheld terminals, hands free wearable devices and/or voice-enabled solutions, real time validation of stock handling functions is achieved by maintaining RF connectivity with your WMS.

### Professional Services

Our project success plan details the process, commencing with on site discovery followed by solution design recommendation, equipment acquisition and solution implementation. As a certified total solutions provider, DATANET offer the professional services required to integrate hardware solutions seamlessly with the existing management system.

**"CREATING ENHANCED TRANSACTION SPEED AND ACCURACY."**



PRINTING EQUIPMENT



RFID IN TRANSIT



TAGS AND LABELS



BARCODE LOCATIONS

## INDUSTRIAL PRINTERS AND LABELLING MATERIALS

1) Labels and tags are created to identify inventory.

## SOURCE DATA ACQUISITION

2) Barcodes/RFID tags are applied to inventory and physical storage location.



HANDHELD



VEHICLE MOUNTED SYSTEMS

## TRACKING

3) A combination of handheld terminals and vehicle mounted devices are utilised to record and locate inventory.

REALTIME  
INVENTORY  
MANAGEMENT  
CREATING  
ENHANCED  
TRANSACTION  
SPEED AND  
ACCURACY

SUPPORTED  
BY WIRELESS  
LAN SOLUTIONS

**datanet**  
BARCODE RFID WIRELESS

## Benefits of Optimising Your Warehouse Management System:

- Track the exact location of your inventory in the warehouse in real-time.
- Increase warehouse worker productivity with unparalleled freedom of movement and fewer workflow disruptions.
- Improve picking accuracy by providing real-time feedback and eliminating manual data entry errors.
- Enable real-time exception/error handling.
- Provide maximum application flexibility: voice-only, text-only and a combination of voice and text.
- Speed up cycle counts and special stock item counts.
- Reduce inventory and maximise utilisation of space.
- Enhance your audit trail by maintaining more accurate, paperless records.
- Improve worker safety with ergonomic design and hands/eye-free operation of mobile computers.
- Increase satisfaction of your customers by responding quickly to their demands and delivering accurate orders on schedule.
- Offer your customers value-added services such as customer-specific package and shipping labelling.

## Real-Life Application

**Company:** Toyota **Warehouse Location:** Kewdale, Perth  
**Total number of users:** 40

**The challenge:** Toyota required a warehousing solution to incorporate:

- Receivable, Dispatch, Cross Dock, Put Away, Asset Track and Stock Take.
- "HOT SPOT" coverage for apprentice technicians in the training room.

**The solution includes:**

- Mixture of mobile terminals - Motorola handheld MC9090, MC70 and wearable WT4090
- Wireless coverage is provided by Motorola WS5100 WING wireless controllers with Motorola AP300 802.11 a/b/g access ports.
- Motorola WS5100 WING controllers in a "HOT" swap mode.
- The site also uses the ability to run VLANs to segregate different users.
- Site uses mixture of security levels to allow users segregated access to the network.
- Motorola WING wireless feature "SMART RF" is used to maintain optimum coverage allowing for ongoing restructure of the ware house environment.
- Zero down time through the use of Datamet Preventative Managed Services.

**Outcome:** A real-time, online warehousing solution delivering enhanced transaction speed and accuracy.



**Want to know more?** email us: [sales@datanet.com.au](mailto:sales@datanet.com.au) or call your local DATANET

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