Yes, You Can Use JDE For Your Barcode Scanning Solution – No Middleware Required

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Emhart Teknologies - We are..

- Fastening Division of Black and Decker
- Fastening System Solution Provider
  - Manufacture
  - Distribute (Distributor Warehouses)
  - Design and build complete Fastening Systems
- All JDE Enterprise One Modules **Except**
  - HR/Payroll – Using corporate Peoplesoft
  - Plant & Equipment and Job Cost – Phase II
  - Fixed Assets – Using corporate standard
Emhart Teknologies – Infrastructure

- WAN bonded T1, Typical site 512K
- iSeries
  - Three flavors in the last 7 years
    - 820 4-way (7GB)
    - 570 Power 5 3-way (24 GB)
    - 570 Power 6 2-way (48 GB)
  - Application Server
  - Database Server
  - Websphere servers
    - AS_JS_81 – Development
    - AS_JS_91 – Prototype
    - AS_JS_92 – Production
Emhart Teknologies – Infrastructure

- JDE Enterprise One, iSeries based
- Production - SP23 P2, Prototype – 8.12 (8.96)
- 900 JDE Enterprise One ERP8.0 named users
  - 400 concurrent users
  - 635 users with the scanner and other roles
  - 250 users with scanner only roles
- Web only clients (4 dev/gen Fat Clients in IT)
- 3 Environments
- Full Interactivity for all web clients
Emhart Teknologies – Scanning Transaction load

• 13 Plants/Distribution Centers – North America

• Monthly Scanner Transaction Counts
  – Pick Confirmation 180,000
  – Cycle Count 25,000
  – Inventory Transfers 41,000
  – PO Receipts 40,000
  – Production Reporting 206,000
Emhart Teknologies – Journey to the Solution

• 2002 Reviewed options
  – DSI
  – RF Smart

• Cost
  – Software $250,000
  – Consulting/modifications $250,000
  – Training – no experience ???
  – On going overhead ???
    • Servers
    • Security
    • Upgrades
Emhart Teknologies – Journey to the Solution

- Go live with Web only clients SP21
- Picked as SP22 Beta site
- Challenges
  - Emhart has a small IT staff servicing all of North America
  - JDE project was to implement vanilla code with only required modifications approved through a Steering Committee
  - Project budget
- We asked the question: “Why can’t we enable the extension of JDE software to any device?”
  - Without added cost of software and hardware
  - Without added complexity of middleware
Emhart Solution – Use existing JDE Software

- Decided to go with JDE and requested a proof of concept with costs and timing from
  - Ciber
  - IBM
  - EDS
- Ciber proved to be the partner of choice for cost and expertise
  - Wanted to make sure we only used the JDE base programs so that the processing options and business function calls would be JDE only
  - Modifications only to the forms in the base programs
  - No upgrade of iSeries required
  - Cost under $20,000 for software changes
  - North American solution
Emhart Solution – Our most successful JDE project

• Full Cycle Count Inventory for initial Implementations
  – Warehouse personnel had no experience with Scanners
  – Took hours not days (5 hours vs. 2 days)
  – Average 5,000 locations per warehouse for initial Go Live

• Handheld devices used CE operating system, could use on any CE device

• Reduce time and increase accuracy for all transactions
  – Cycle Count
  – Inventory Transfers
  – Super Backflush
  – Pick Confirm

• Completed on time, below budget, and without the need for additional software, hardware or middleware
Emhart/Ciber Scanning Solutions

DEMO
Emhart Teknologies – What do you need to get started

• Hardware
  – Site Survey
  – Access Points
  – Intermec Scanners – we use Intermec 700C

• Software
  – Form changes for scanner applications
  – JAS.ini settings for Pocket PC
  – XE, ERP8, 8.10 Configure portal and components
  – ERP8.11 (8.94) to 9.0 XML file
    • PervasiveAppQuickLinks.xml
    • See appendix in the HTML Webserver Admin manual - Setting up Pervasive Device Support
Technical Considerations

• Wireless Coverage
  – Solution depends upon the connection to the server

• Browsers (Microsoft vs. Third Party)
  – Features and Options

• Device Management Options
  – Lock down the device to control user access
  – Remote control options available
  – Push device updates from centralized server
Technical Considerations

Mobile Devices

- 802.11 Wireless, Windows Mobile OS
  - Intermec
  - Motorola
  - Psion Teklogix
Resources

• Peoplesoft technical support
  – GSS/Knowledge Garden
  – HTML Webserver Admin Guide (8.12)
  – ERP8 Portal Guide
  – White Papers

• Quest
  • Riesa.case@bdk.com
  • Ttemplin@ciber.com