ERROR PROOF®

MANUFACTURING EXECUTION SYSTEMS

IDENTIFY   TRACK   MANAGE

Error Proof ®
Automated Data Collection

FREEDOM™
TECHNOLOGIES
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Error Proof® Software

Freedom Technologies is a "One Stop Shop" for manufacturer's data collection and labeling requirements through our turn-key automated data collection solutions. Freedom's flagship application Error Proof® is configurable middleware software for monitoring, managing, and controlling shop floor data collection. With a powerful group of WIP tracking, label printing and production information capture functions; Error Proof® eliminates errors in receiving, production, and shipping activities. Error Proof® is now integrated to QAD Enterprise Applications through QAD QXtend.

Error Proof® Automated Data Collection Advantages:

- Eliminates manual data entry errors.
- Data can be collected by scanners, scales, PLCs, CNC's, cameras and shop floor machines.
- Error Proof® is user configurable, with lower total cost of ownership, and offers distributed shop floor-oriented architecture.
- Collects data in real time.
- In the event connection to the QAD server is lost, data is held in the Error Proof® server until connection to QAD is restored.
- The standard Error Proof® solution toolset allows trained personnel to make configurations to the application in order to enhance system functionality, address changes, and to modify label formats.
- With Error Proof®, the technology selected today will support your company as requirements mature.
- Easily configured to standard or customized QAD transactions.
- No modifications to QAD required.

Error Proof® Architecture

Error Proof® runs on a localized server collecting and validating data which is optimally configured then sent to QAD. Error Proof® allows synchronization of localized downloads of user selected data from QAD at determined intervals. The result is QAD data is available 24 hours a day, 7 days a week for users.

Freedom's Smart Labels

Freedom's Smart Label works within Error Proof® to be a complete product traceability solution with capabilities of tracking at the piece level. Through the Smart Labels license plate. Freedom is capable of tracking container / pallet with its genealogy such as: location, lot, part number, serial number, supplier, quantity, test data and much more. Freedom's Smart Label provides advanced control of materials and visibility on the shop floor. Freedom's Smart Label can create split or join labels to track and meet production requirements. After splitting or joining the components, a label will be produced linking the components with its history.

QAD QXtend Interface

Freedom has expanded Error Proof® to interface through QAD's QXtend. QXtend simplifies data synchronization between QAD applications and Error Proof®. Using QXtend offers QAD / Error Proof® customers a consistent data synchronization interoperability standard.

Standard Error Proof® Software Includes:

Setup, configuration and inquiries using the Error Proof® Administrator:
- System setup
- Employees
- Printers
- Label formats
- Security - menus, queries and reports
- Translation tables
- Configuration:
  - IPL and ZPL designer
  - Report designer
  - Query designer
  - Telnet/Windows/Browser designer
  - Downloads
  - Scheduled tasks

Maintenance Functions:
- Archiving
- Change history
- Submittal of update transactions

Work station (Windows client/server) install is provided as part of Error Proof® Standard Software. Included with the workstation install are the following device drivers:
- Buffer (simplified SQL access)
- COM/Serial
- File
- Monitor
- Shell
- Timer

Error Proof® Services:
- Label Print Manager
- Telnet Server
- Windows Server
- Web Server

All the Error Proof® database tables are loaded as part of the Error Proof® Standard Software install

Database queries of pending or updated transactions

Foundational DLL's for other modules

Export/Import routines for configuration scripts