

# Fleet Image Management System- NT (FIMS-NT)



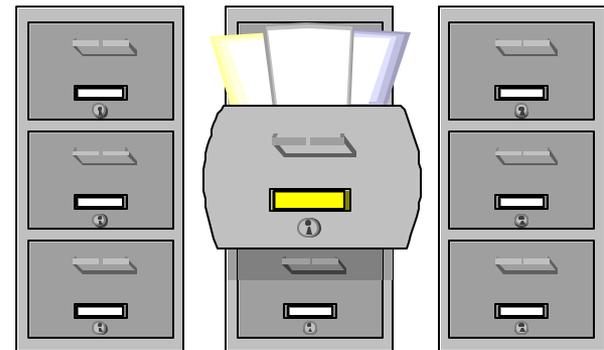
Helping to Shape the Future





# Why FIMS-NT ???

- **In the Fleet today about 10,000 receipts processed onboard a typical CV/CVN each month**
- **Separate files are being maintained for:**
  - **Issue Release/Receipt Document DD Form 1348-1A (IRRD)**
  - **Carcass Turn-Ins (AV/DLR)**
  - **Material Turned Into Stock (MTIS)**
  - **Quality Deficiency Reports (QDRs)**
  - **Report of Discrepancies (RODs)**
  - **Report of Surveys**
  - **Correspondence**
- **Each file is in a different sequence**
  - Causative research long and exhaustive
  - Audit Trails hard to maintain





# Capabilities

- **Client Server Configuration (NT Workstation -P166 or Higher)**
  - Server (128k RAM)
    - 40-80 GB Hard Drive (application, database, and storage)
  - Scan Station (64k RAM)
    - Scanner, Image Processing Board, and connectivity to the FIMS database
  - View Station (64k RAM)
    - Connectivity to the FIMS database
- **Standalone Configuration (NT Workstation -P166 or Higher, 128k RAM)**
  - 40-80 GB Hard Drive, Scanner, and Image Processing Board



# Capabilities

- **Scanner:**
  - Greater than 95% Barcode Decode Accuracy
  - 30 Receipts (IRRDs) per minute scan rate
  - Document Feeder or Flat Bed scanning
  - Automates Quality Assurance Process
- **Storage:**
  - Images are maintained on a Server or Local Hard Drive
  - Average Receipt (IRRD) Image Storage is 40KB
  - Magnetic Storage Space Required for 100,000 images is approximately 5Gb (includes database)



# Development Strategy

- Reduce workload and Physical Space associated with filing and retrieving paper-based documents
- Manage a wide range of documents in user-defined libraries
- Minimize component costs by using existing NTCSS Network infrastructure and workstations
- Automatically interpret and store barcoded index information
- Develop a search engine to retrieve individual or a range of documents based on user-supplied parameters
- Create scanning templates for individual libraries to minimize user intervention with scanner and image enhancement controls
- Make images available for attachments to e-mail and other electronic documents



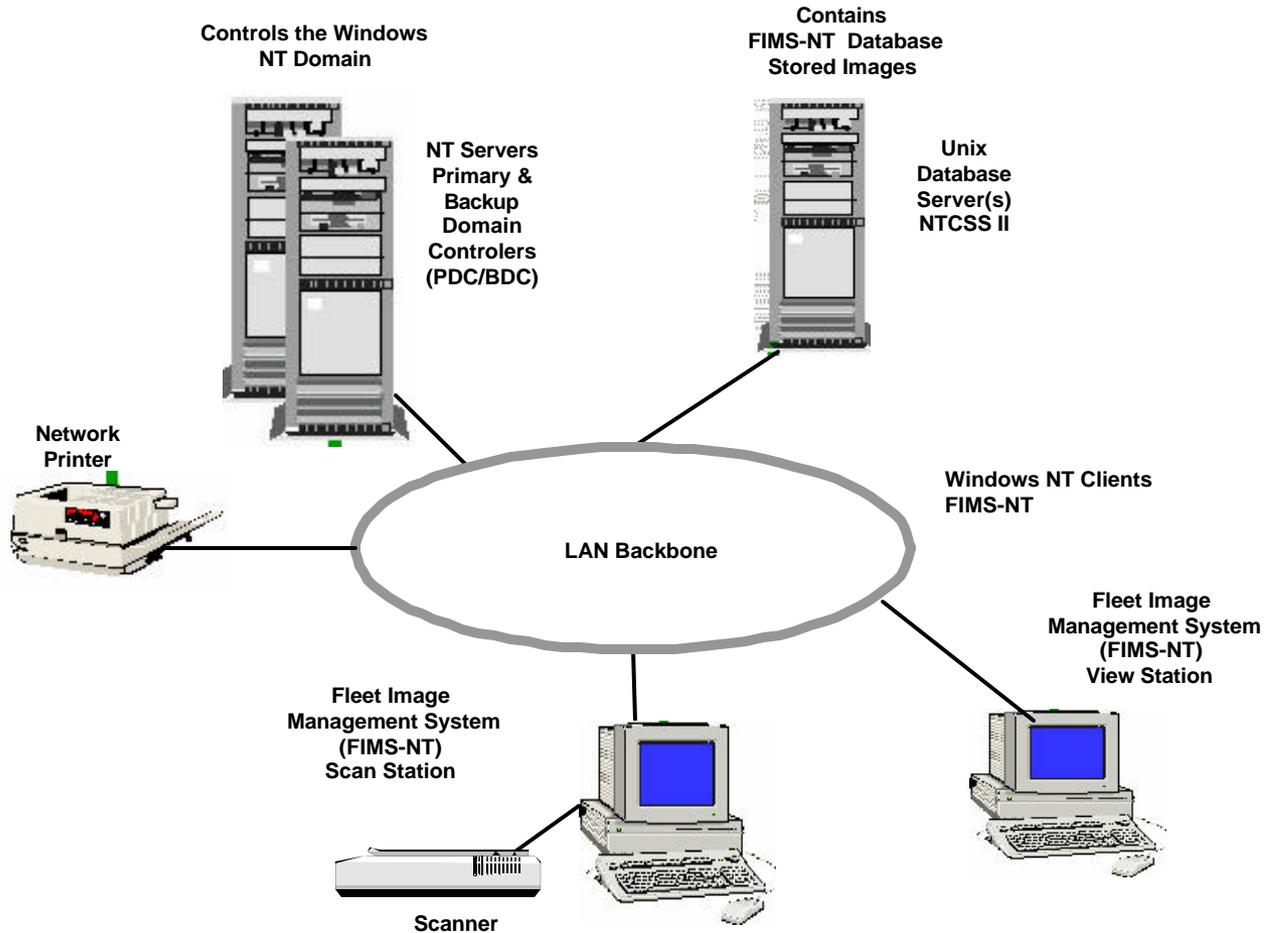
# Libraries

- Libraries created during installation include
  - Receipts (DD Form 1348-1A) IRRDs
  - Depot Level Repairable (DLR) Turn-ins
- Users can **create** “User-Defined Libraries” that can be interactively linked by up to five keys
  - Examples include but are not limited to:
    - Material Turned Into Stock (MTIS)
    - Quality Deficiency Reports (QDRs)
    - Report of Discrepancies (RODs)
    - Report of Surveys
    - Correspondence
    - Contracts



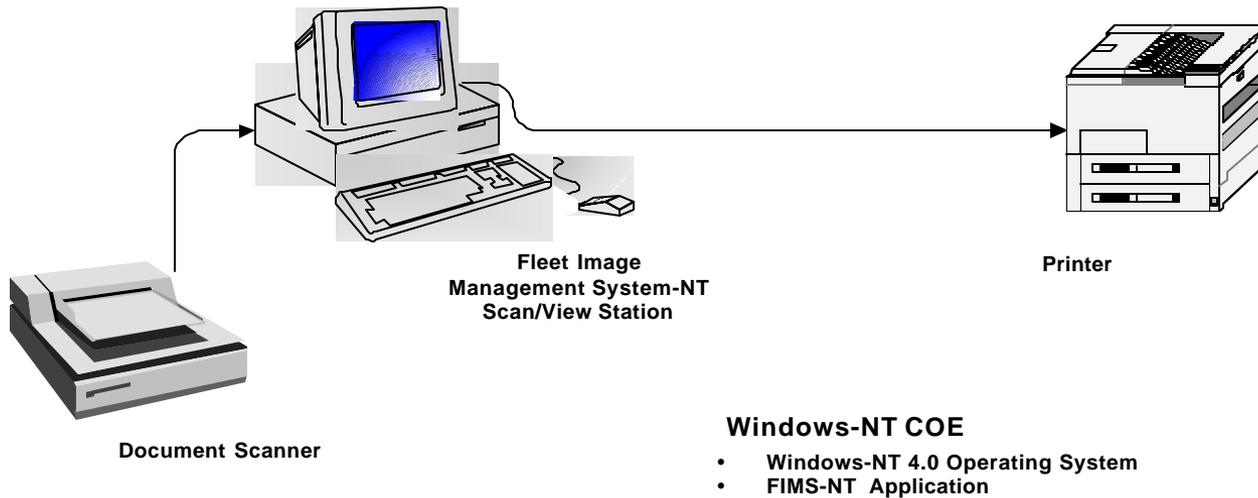


# NTCSS Client/Server Architecture





# Standalone Architecture





# Future Features

## Phase II & Beyond

- Scalable to SQL Server
- SCSI and Twain Scanner Support
- Optical Media and Storage (DVD, Jukebox)
- Optical Character Recognition (OCR) (Zone and Full- text searching)
- Import/Export function of images and index information
- Support for PDF-417 Symbology (2-D)
- Enhanced interpretation and automatic storage of barcoded information
- Improved user interface for defining document types and barcode masks.
- Rapid migration to a Web framework for remote searching and retrieval