



## DESCRIPTION

--	--	--	--	--	--	--	--	--	--

- Supports Management of Army Housing
- 36 Billion Housing Investment
- Located at Army Installations World Wide
- Currently 400 Systems in the Field



"Exceed Our Customers Highest Expectations  
Through Technical Excellence"



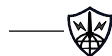
1



## SELECTION OF IEF

--	--	--	--	--	--	--	--	--	--

- Tool Imposed A Standard Methodology
- Faster and Easier to Revise System
- Self Documenting



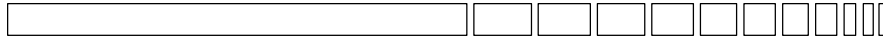
"Exceed Our Customers Highest Expectations  
Through Technical Excellence"



2



## MINI PLATFORMS



### ■ Legacy System

- INTEL 310/320, AT&T 3B2
- C Language, INFORMIX 4GL, DBC
- INFORMIX RDBMS & Flat Files
- UNIX & XENIX Operating Systems



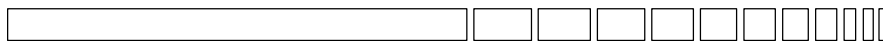
"Exceed Our Customers Highest Expectations  
Through Technical Excellence"



3



## TARGET PLATFORM



### ■ HOMES One of the First IEF Systems Targeting UNIX

- Original Target AT&T 3B2

### ■ DoD Super-Mini Contract Awarded

- Provided Hewlett-Packard Computers



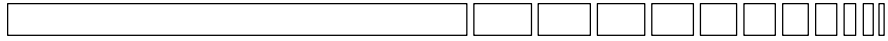
"Exceed Our Customers Highest Expectations  
Through Technical Excellence"



4



## TECHNICAL CHALLENGE



- IEF Generates Enormous Executable Files
  - Intel Version 2 MB,
  - IEF Version 29 MB
- Hardware Tests
  - 3B2 Very Slow
  - Tests on HP 9000 Model 750 Were Excellent



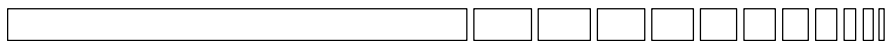
"Exceed Our Customers Highest Expectations  
Through Technical Excellence"



5



## TEST METHODS



- Ran Simultaneous Scripts from Terminals
- HP 9000 Model 750 With 64 MB RAM
  - First Sign of Performance Degradation at 30 Users



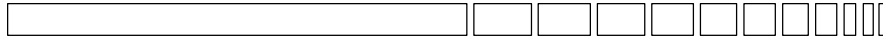
"Exceed Our Customers Highest Expectations  
Through Technical Excellence"



6



## HOMES CONFIGURATION



### ■ Consulted INFORMIX

#### – RAM Recommendations

- » UNIX 32 Meg
- » INFORMIX 16 MB Base
  - Add for 4 MB for User Log-in
  - Add 4 MB for Data
- » IEF Application 50 MB

### ■ Objective - Load Everything into RAM,

#### – RAM Increased to 128 MB



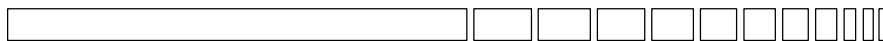
"Exceed Our Customers Highest Expectations  
Through Technical Excellence"



7



## DOD CONFIGURATION

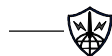


### ■ HOMES Configuration

- 2 2.0 GB Fixed Disks
- 128 MB RAM

### ■ Baseline Control... Use Only 750's

- Sites With More Than 30 Users to be Multiple 750s
- Best Baseline and Least Expensive Solution



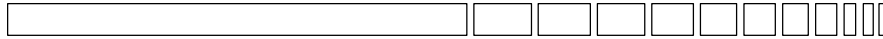
"Exceed Our Customers Highest Expectations  
Through Technical Excellence"



8



## ARCHITECTURE



### ■ Present Architecture

- 32 or Fewer Users --- 1 HP
- 32 to 64 Users --- 2 HPs
- Hawaii with More Than 150 Users 7 HPs and Model 710 Communications Controller



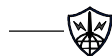
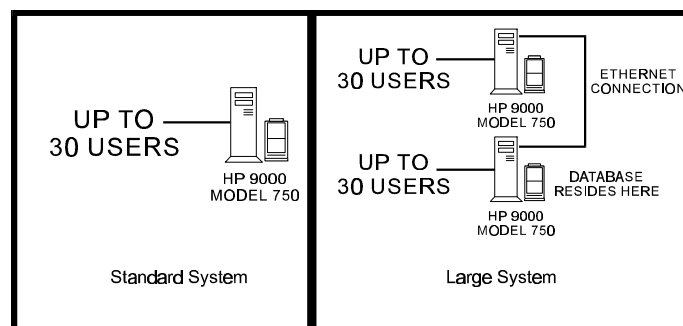
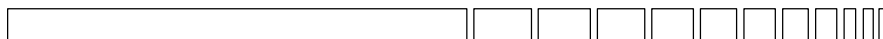
"Exceed Our Customers Highest Expectations  
Through Technical Excellence"



9



## SYSTEM ARCHITECTURE



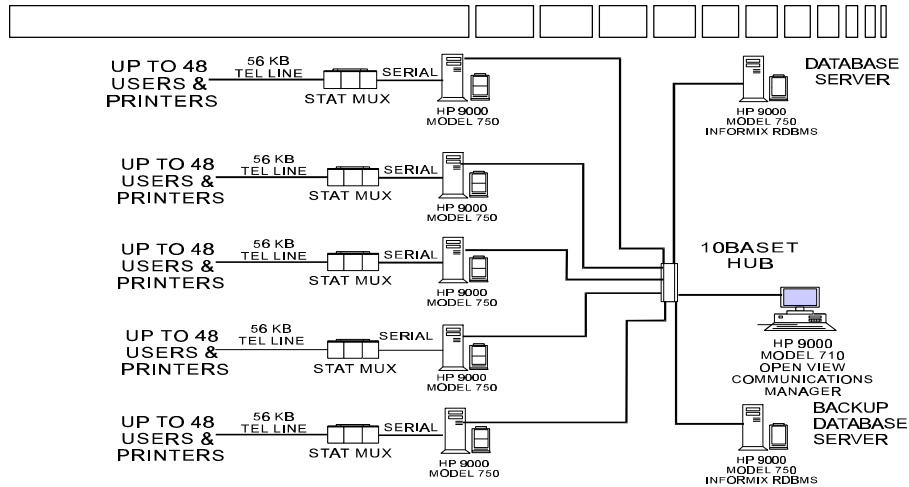
"Exceed Our Customers Highest Expectations  
Through Technical Excellence"



10



## HAWAII ARCHITECTURE



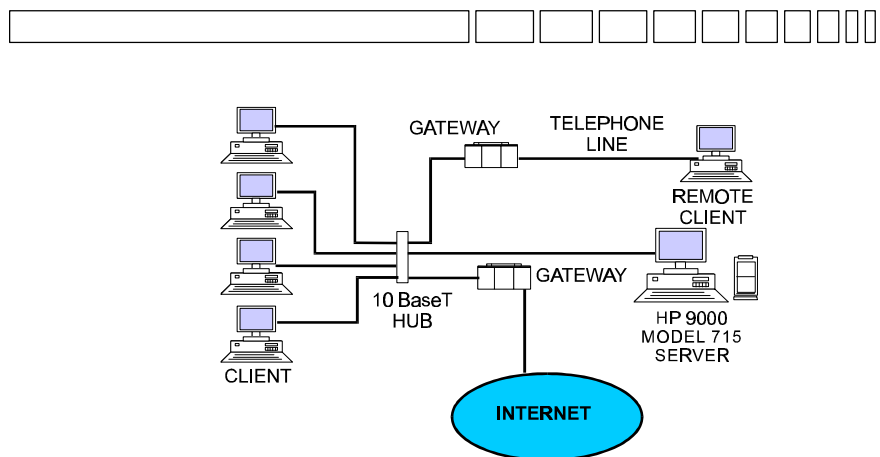
"Exceed Our Customers Highest Expectations  
Through Technical Excellence"



11



## LODGING



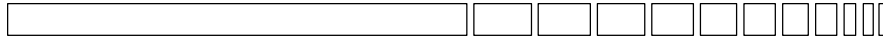
"Exceed Our Customers Highest Expectations  
Through Technical Excellence"



12



## VERY SMALL SYSTEMS



- All Systems Can Substitute the Model 712
  - 750 Substitution - Max 6 Users
  - 715 Data Storage is Constraint
- No Change in Software
- Substantial Cost Reduction
  - 57% Reduction for Model 750 Systems
  - 34% Reduction for Model 715 Systems



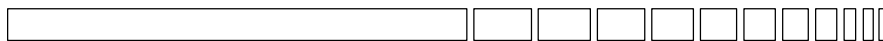
"Exceed Our Customers Highest Expectations  
Through Technical Excellence"



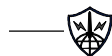
13



## SPECIFIC BENEFITS



- Binary Compatibility of HP9000 Series
- Scalability - Build System on One -- Runs on All
  - Software can be Moved Among Different Sized Computers
  - Systems Sized to the Need
  - Expense Sized to the Resources
- Software to Make Components Work Together



"Exceed Our Customers Highest Expectations  
Through Technical Excellence"



14