

May 13, 2008

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Introduction

The decommissioning of the current hardware that hosts our Case Management System is important for three reasons. The current hardware is a critical risk because:

1. It has been in service long after what is prudent for computer hardware;
2. The Court has grown to meet the needs of the exponential growth in Pima County, and the current hardware is over used; and
3. There have been significant changes in technology, and newer hardware will provide Court users with better performance.

The current plan contains two phases: Phase one is software installation and unit testing. The Court's IT department will

1. Install the software, verify licensing and acquire appropriate support;
2. Perform initial system and installed software configuration; and
3. Perform unit testing on the software to ensure that it will perform reliably.

Phase two is system optimization, data migration, and full system testing. The Court's IT department and selected vendor will

1. Carry out system optimization, performance enhancements, security enhancements, back up and restore enhancements;
2. Full data migration from current system to new system;
3. Full system testing in a production-like environment with Court users; and
4. Live data testing with Court users.

Licensing and Maintenance Contracts

- OpenVMS (v 7.3):
 - currently a single user license, transferring other licenses with HP tbd 5/15/08
 - new hardware service contract done on 5/12/2008
- Multinet (v 5.x) : transfer license done on 4/24/08
- CONNX (v 8.9): license available
- DataTrieve (DTR) (v 7.2A): license available

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Phase 1: Software Installation and Unit Testing

Who: PCCJC Information Technology Department

When: April 23, 2008 thru June 2, 2008

Software installation

- **Completed** OpenVMS (v 7.3): currently installed, a major upgrade from previous version 6.2
- **Completed** Multinet (v 5.x): a major upgrade from previous version 4.5
- [start 5/14:end 5/16] DataTrieve (DTR) (v 7.2A): a minor upgrade from previous version 7.0
- [start 5/19:end 5/23] RMS: copy directory structure, copy files, create logical references
- [start 5/20:end 5/23] CONNX (v 8.9): a minor upgrade from previous version 8.7
- [start 5/20:end 6/2] CMS: Copy menu system program
- [start 5/21:end 6/2] User accounts: Copy/configure user account information
- [start 5/27:end 6/2] Print queues: Copy/configure printers and print queues
- [start 5/29:end 6/2] Batch queues: Copy/configure batch processing queues

Unit Configuration and Testing

- OpenVMS
 - Install/configure Firmware update 6.5
 - Refer to vendor support with installation errors
 - Configure page/swap files, memory allocation
 - Configure disk drives
 - Start up, shut down
 - Test: can completely power down and start up unit without errors
 - Back up and restore
 - Test: can complete a full back up to tape(s) and restore partial elements from the same tape(s)
 - Test: can back up to remote server and restore partial elements from the remote server
 - Test: can complete a full back up to tape(s) and restore from the same tape(s) (disaster recovery)
- Multinet
 - Verify installation without errors
 - Refer to vendor support with installation errors
 - Telnet (primary court user access)
 - Configure for access from Court users
 - Configure for access from outside users
 - Test: can log into system account from remote computer
 - Test: can log into Court user accounts from remote computer
 - Test: can log into outside user accounts from remote computer
 - FTP (file transfers to/from other servers)
 - Configure FTP to send/receive files within Court domain
 - Configure FTP to send/receive files from outside Court domain

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- Test: using a remote computer within Court domain - can log into system with FTP account, change directories, put files into selected directory, can get files from selected directory
- Test: using a remote computer outside of the Court domain - can log into system with FTP account, change directories, put files into selected directory, can get files from selected directory
- NFS (network file system access to/from public website server)
 - Configure access to send/receive files from within Court domain
 - Test: using Geronimo - can access system with NFS account, change directories, put files into selected directory, can get files from selected directory
 - Test: using Sobe - can access system with NFS account, change directories, put files into selected directory, can get files from selected directory
- NTP (time synchronization from another network server)
 - Test: can access time server within Court domain and correct time
- Email (notifications from system functions to users)
 - Test: send email from system account (command line) to Exchange user and verify inbox
 - Test: send email from user account (command line and automated process) to Exchange user and verify inbox
 - Test: send email from user account (command line and automated process) to distribution group and verify inbox
- CONNX (primary access to data from Windows computers and processes (bolt-ons))
 - Verify installation without errors
 - Refer to vendor support with installation errors
 - Copy data file(s) from Nihil to server
 - Create dictionary file (.cdd) on a Windows test computer
 - Create ODBC connection on a Windows test computer
 - InfoNaut
 - Test: using a remote Windows computer with InfoNaut - CRUD¹ records from different table sources (traffic, criminal, civil)
 - .NET programs
 - Test: using a remote Windows server with an automated VB process – CRUD records from different table sources (traffic, criminal, civil)
 - Test: using a remote Windows computer with a user application such as Warrant program, enter information into system and verify data correctly in tables
 - Test: using multiple Windows computers and multiple applications access CRUD records from different table sources (traffic, criminal, civil)
- DataTrieve (DTR) (primary access to data from the Case Management System)
 - Verify installation without errors
 - Refer to vendor support with installation errors
 - Copy data file(s) from Nihil to server
 - Import record definitions for data file(s)
 - Import forms
 - Import scripts

¹ Create, Read, Update, Delete

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- Test: using DTR interactively CRUD records from different tables (traffic, criminal, civil)
- Test: using DTR interactively, run imported scripts
 - CRUD records from different tables
 - Scripts with email code and verify inbox of recipients
 - Scripts with DCL code and verify no errors
- Call script from DCL command line
 - Test: from the user command line run a DTR script and verify execution
- Call script from DCL command file
 - Test: from the user command line, interactively execute a DCL file that contains DTR script execution, verify execution
- CMS (Case Management System)
 - Verify installation without errors
 - Recompile if necessary
 - Call CMS executable
 - Test: CMS executes without errors
 - View menus
 - Test: select each menu option that opens a submenu and visually verify execution
 - Test menu options
 - Test: options that executes DTR script from CMS executable
 - Test: options that executes DTR script directly
 - Test: forms display with correct layout/data
 - Test: forms accepts user inputs and updates tables correctly
 - Test: menu option can print documents
 - Test: can accept passwords for restricted items like supervisor menus
 - Test multiple user access
 - Test: multiple users can perform all the above operations without errors
- User accounts
 - Copy/configure user authorization file
 - Copy/configure user login scripts
 - Test: when user logs in the CMS is loaded automatically
- Printer queues
 - Copy/configure printers
 - Test: can print a test page interactively from the command line
 - Test: can print a page from a CMS option
- Batch queue (scheduled automated processes like Collections)
 - Add automated processes to queue
 - Test: visually verify processes are added to queue
 - Test: process starts automatically and resubmits itself to the queue
 - Run scheduled process
 - Test: process can be started interactively

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Phase 2: System Optimization, Data Migration and Full System Testing

Who: PCCJC IT Department and Vendor

When: June 2, 2008 through June 15, 2008

System Configuration and Copied Data Testing

- OpenVMS configuration
- Performance enhancements
- Load testing
- Security configurations and enhancements
- Back up and restore
- DataTrieve
 - Import/copy complete set of data, records, forms, etc
 - Verify imported data integrity
 - Test interactive and script manipulation of data
- CMS
 - Have users from different departments and different computers use menu system
 - Verify form layout, data input, data output
 - Performance testing
- Batch queue processes
 - Schedule full cycle and verify runs
- CONNX
 - Verify connectivity for all applications
 - Execute applications and verify data access and manipulation
 - Execute MSSQL integration packages and verify data copies
 - Performance testing

Live Data Testing

- CMS
- User applications
- Automated processes
- Database copies
- System synchronization