

ATTACHMENT 8

TECHNICAL BACKGROUND AND CURRENT SYSTEMS

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ATTACHMENT 8

TECHNICAL BACKGROUND AND CURRENT SYSTEMS

1. GENERAL OVERVIEW OF CURRENT TECHNOLOGY

In 2003, the Hawaii Judiciary started on a project called JIMS that is intended to replace all of its separate, disparate, legacy case management systems with a single integrated system for all of the Hawaii Judiciary case types. The foundation of this effort is a commercial off-the-shelf product called Court Contexte. To date, traffic and appellate cases have been migrated into JIMS and the jury component has also been implemented. The District Court Criminal module is slated to go live by July 2012. This RFP is targeted at services needed beyond the implementation of the District Court Criminal module.

In general, the current case processing in the Hawaii Judiciary is supported by paper and hardcopy information; data, facsimile, and telephonic transmission; messenger service; and fragmented case filing and data systems that include more than six applications on one mainframe, two minicomputers, local servers, and personal computers. A statewide network is in place for remote locations to gain access to the centralized computer systems.

Prior to the JIMS effort, automation support in the Hawaii Judiciary was developed in piecemeal fashion over three decades. Two existing case management systems to support District, and Circuit Courts' criminal and civil case processing were initially written in the 1960's and 70's, with some applications written in the 1980's. Although the current criminal system is split between District and Circuit Courts, the Judiciary is moving towards a single tier trial court system which should standardize most processes across the courts.

The Family Court's juvenile case management system was begun in 1991 following a 1990 IBM AS/400 computer and case management software acquisition, and has been through recent upgrades to improve online data entry in courtrooms. The Trust Accounting System is a General Ledger (GL) application that runs on an IBM pSeries minicomputer and is used by the circuit courts and the district courts on the neighbor islands to record case related financial transactions. Due to database, programming language, or platform incompatibilities, most of the major applications work independently of each other and do not share information. Auxiliary automation applications include word processors, spreadsheets and simple database applications.

The Information Technology and Communications Division (ITCD) provides computer support and assistance for all areas of the computer network, hardware, and software. There are approximately 35 ITCD technical, clerical, and management personnel working to support approximately 1,800 users (staff) across all circuits.

2. EXISTING MAJOR COMPUTER APPLICATIONS

The table below summarizes the major current case related computer systems in use by the Judiciary. All systems not already in JIMS are targeted to be replaced by JIMS.

APPLICATION	DESCRIPTION
JIMS Traffic	Traffic case management information system.
HAJIS	District and Circuit Civil cases and Circuit Criminal/Family Adult case management information system.
DC Crim	District Court Criminal case management information system. DC-Crim is targeted to be converted to JIMS by July 2012.
JIMS APPELLATE	Appellate case management information system.
JUSTIS/ JUSTIS FC-J In-Court	Family court juvenile case management information system which includes both juvenile offenders and juvenile victims.
Caseload Explorer	Probation and parole agency data management system.
Trust Accounting	General ledger package for Circuit and neighbor island District Courts.
JIMS Jury	Jury selection, management, and compensation processing.

2.1 JIMS Traffic System

On average, JIMS Traffic handles cases involving nearly a quarter million parking tickets, along with about 137,000 moving violations and about 115,000 non-moving violations per year. The First Circuit accounts for about 75% of the state's volume of Traffic cases. This case area, by far, generates the largest workload for the Judiciary. JIMS Traffic is NOT a primary target of this RFP.

JIMS Traffic provides the following functionality:

Case Initiation & Data Entry

- Records management/abstract reconciliation
- Identify violator/person
- Enter violation/case into system
- Enter hearing minutes and dispositions
- Issue bench warrant/penal summons/default judgment
- Process judgment/post-judgment orders
- Enter post-judgment compliance information /payment
- Process non-compliance
- Event logging

Calendaring & Scheduling

- Calendar management
- Schedule hearing

Fiscal

- Cash balancing for Oahu TVB
- Bail posting reports
- Allocation of collections for other state agencies – DAGS State Parking and Department of Transportation (DOT) State Highway Fund

Case Management

- Identify court rule or statute which charge needs to follow (i.e., what fine needs to be paid)
- Identify compliance status
- Rule compliance
- Process proof of compliance

External Interfaces

- City and County of Honolulu (C&C) Vehicle Registration System
- Driver License System for each county
- C&C Problem Driver Pointer System
- Prosecutors' Offices for each county
- Attorney General's Hawaii Criminal - Justice Data Center (HCJDC)
- Attorney General's Collection Unit
- Honolulu Police Department
- Hawaii Police Department
- Maui Police Department
- Kauai Police Department
- Commercial Driver's License (CDL) Office
- Traffic abstracts requests and delivery with Hawaii Information Consortium (HIC) for use by insurance companies (e.g., Choice Point)

System Administration

- Generate traffic abstracts
- Validation table maintenance
- System facilities

2.1.1 Criminal Systems

2.1.2 District Court Criminal (DC Crim)

The District Court criminal case management system is DC Crim on an IBM Multiprise 3000 mainframe residing at the Honolulu District Court Building, first floor. DC Crim uses Adabas and its Natural 2 4GL. DC Crim is a separate system from HAJIS, and the two systems do not share data. All case data passed from one system to the other must be manually re-entered. DC-Crim is targeted to be converted to JIMS by July 2012 and is, therefore, NOT a primary target of this RFP.

DC Crim provides the following functionality:

Case Initiation and Data Entry

- Process non-compliance
- Issue bench warrant
- Records management
- Post judgment/order processing
- Event logging
- Record hearing minutes and disposition
- Close case
- Identify violator/person
- Record violation/pleading/case

- Enter changes to case record
- Provide output of case record

Calendaring & Scheduling

- Calendar management
- Schedule hearing

Fiscal

- None

Case Management

- None

External Interfaces

- Public access data terminals
- HCJDC criminal history interface
- NCIC (FBI) criminal history interface (separate terminal/system)
- Online access to case data from authorized criminal justice agencies including Honolulu Police Department, Hawaii Police Department, Maui Police Department and Kauai Police Department

System Administration

- Validation table maintenance

2.1.3 Circuit Court Criminal and Adult Family Court Criminal (HAJIS)

The Circuit Court criminal case management system is HAJIS on an IBM z9 mainframe computer. HAJIS is built using Adabas, Natural 2 and COBOL/CICS. All user access is through 3270 terminals or 3270 emulation on PCs.

HAJIS provides the following functionality:

Case Initiation & Data Entry

- Process non-compliance
- Issue bench warrants/penal summons
- Records management
- Process judgment/post-judgment order
- Event logging
- Record hearing minutes and disposition
- Close case
- Identify violator/person

Calendaring & Scheduling

- Calendar management
- Schedule hearing

Fiscal

- None

Case Management

- None

External Interfaces

- Public access data terminals
- HCJDC criminal history interface (separate terminal/system)
- NCIC (FBI) criminal history interface (separate terminal/system)
- Online access to case data from authorized criminal justice agencies including Honolulu Police Department, Hawaii Police Department, Maui Police Department and Kauai Police Department

System Administration

- Code table maintenance
- Audit records of users and date of data entries or changes
- User access security and controls

2.1.4 Circuit and District Court Civil and Circuit Adult Family Court Civil (HAJIS)

The Circuit Court Civil case management system is HAJIS. HAJIS runs on an IBM z9 mainframe computer. HAJIS is built on Adabas, Natural 2, and COBOL/CICS. All user access is through 3270 terminals or 3270 emulation on PCs.

HAJIS provides the following functionality:

Case Initiation & Data Entry

- Process non-compliance
- Issue bench warrant
- Records management
- Enter post judgment/order information
- Event logging
- Record hearing minutes and disposition
- Close case
- Identify person
- Record pleading/case
- Enter recorded changes
- Reflect record

Calendaring & Scheduling

- Calendar management
- Schedule hearing

Fiscal

- None

Case Management

- Identify rule
- Identify compliance status
- Rule compliance
- Process proof of compliance

External Interfaces

- Public access data terminals

System Administration

- Code table maintenance

2.1.5 JIMS Appellate

JIMS Appellate is NOT a primary target of this RFP.

JIMS Appellate provides the following functionality:

Case Initiation and Data Entry

- Records management
- Identify parties
- Docket management
- Print filing notices
- Post opinions/memos
- Event logging
- Record oral arguments/minutes
- Close case
- Reopen case
- Case inquiry

Calendaring & Scheduling

- Calendar management
- Schedule oral arguments

Fiscal

- None

Case Management

- Identify rule
- Identify compliance status
- Rule compliance
- Process proof of compliance

External Interfaces

- Public access data terminals

System Administration

- Validation table maintenance

2.1.6 Family Court Juvenile (JUSTIS)

Juvenile Statewide Information System (JUSTIS) is the Family Court's juvenile case management information system. JUSTIS runs on an IBM iSeries minicomputer and uses DB2/400 as the database with the applications written in COBOL, CL, and C. JUSTIS serves the Family Courts in all circuits. A recent add-on to JUSTIS is the "FC-J In-Court" application. This part of the application is GUI-based and produces Court Officer Recommendations, captures minutes in court and generates court

ordered documents real-time in the courtroom. SEER*HPS was the name of Seer Technologies' application development tool used to develop the application. The tool is now called BluePhoenix AppBuilder owned by *BluePhoenix Solutions*.

JUSTIS provides the following functionality:

Case Initiation & Data Entry

- Process non-compliance
- Records management
- Post judgment/order processing
- Event logging/hearing minutes entry and maintenance
- Record hearing disposition/results
- Juvenile search by name, date of birth and/or sex
- Juvenile purge ("interim" purge archives non-identifying information for research and statistical purposes)
- Juvenile summons(WordPerfect) and warrants(SEER)
- Close case
- Identify juvenile
- Record referrals/petitions
- Post recorded changes
- Reflect record
- Track post-disposition compliance tracking
- Court officer assignments

Calendaring & Scheduling

- Calendar management
- Schedule hearing

Fiscal

- Record fine/restitution amounts
- Record fine schedules and payments

Case Management

- None

Report/Document Generation

- Statistical reporting (age of referrals, caseload activity)
- Decrees, conditions, mittimus, warrants, orders, etc.
- Minutes
- Court Calendars

Detention Services

- Admissions/Releases
- Track authorized visitors
- Admissions/Releases for multiple facilities
- Reports including current population, admissions and sick call lists, releases, etc.

External Interfaces

- Juvenile Justice Information System (JJIS)

System Administration

- Validation table maintenance

Family Court has also implemented a GUI front end in support of the JUSTIS FC-J In-Court process. Netware file servers are used as application servers to Windows 2000 and later clients. The Family Court's iSeries minicomputer is used as the application's database and host server using SQL and C.

The JUSTIS FC-J In-Court system includes functionality for probation officers to record recommendations and conditions for disposition/adjudication on juvenile offender (J) cases, which are used by Family court judges as a basis for a disposition and judicial order. In addition, JUSTIS FC-J In-Court is used to record hearing minutes and results, calendar future hearings, and generate decrees, orders of dismissal, bench warrants, mittimus, rules of probation, rules of protection supervision, recalls of warrants, and other general orders. It is used real-time in hearings. JUSTIS FC-J In-Court is in use in all four circuits. BluePhoenix AppBuilder is the proprietary repository-based application development tool used to develop the FC-J In-Court System. The data is entered directly into the JUSTIS DB2/400 database.

The base juvenile application (DB2/400) was acquired from Maricopa County, Arizona in 1989 and has been modified to meet the needs of Hawaii's Family Courts. It includes, but is not limited to, juvenile demographics, cases (offender and victim), referrals, petitions, legal statutes, warrants and summons, hearings and calendars, conditions and compliance, case assignments, detention and shelter admissions, court officer recommendations, hearing minutes and court orders. Informal adjustments and other dispositions are captured as well as court-ordered dispositions. Compliance (incremental and final) information for informal and court-ordered conditions are also captured. Most users generally do not use ad hoc reporting tools and free-form fields. JUSTIS provides primary case management reports, but its potential to provide ad hoc information and comprehensive case management information has not been fully exploited. Other than the fine and restitution amounts ordered, no accounting system interfaces with JUSTIS. Juvenile probation uses the system for basic monitoring of data, but not for tracking and report functions.

A two-way interface between the Judiciary's system and JJIS was implemented in 2000. Key information from family court such as verified name and date of birth, judicial and non-judicial dispositions, conditions, hearing data, probation officer, judge and so forth are uploaded to JJIS. JJIS returns the JJIS ID for each juvenile which updates the JUSTIS juvenile record. JJIS attempts to share key data among the various agencies, including the transmission of hearing results, and an interface to provide electronic referrals and petitions from the police and prosecutors offices statewide.

2.1.7 JIMS Jury

Jury functionality was converted into JIMS in November 2007. Thus, JIMS Jury is not a primary target of this RFP.

Jury selection is handled by combining data from three sources (Driver's license, voter registration, and Hawaii tax returns). The application selects potential jurors through a random selection process.

Juror questionnaires are scanned and each scanned image is accompanied by basic header information such as name, pool number, and juror identification (ID) number.

2.1.8 Probation (Caseload Explorer)

The Probation offices (statewide) use a Windows-based computer program called Caseload Explorer. Caseload Explorer contains supervision episodes connected to arrests, offenses, and motions.

2.1.9 Trust Accounting

The Trust Accounting system is rooted in a GL package from Dynalogic. It was originally modified for use by the circuit courts and is now additionally used by the neighbor island district courts for tracking case related financial transactions. A limitation of the Trust Accounting system is that its financial records are not directly related to the corresponding cases in the case management systems. JIMS provides this accounting functionality within the JIMS case management system. The Trust Accounting system will be phased out once the last of case management systems that are reliant on it are converted to JIMS.

2.2 EXTERNAL INTERFACES

Each current case management system includes numerous external interfaces. Administrative functions define the protocols for data transmission, security, and other specifications.

The following table indicates the external agencies that have inquiry access to the current mainframe systems.

Agency	DC Crim	HAJIS	JIMS Traffic	JUSTIS
Attorney General's Office		X	X	
Hawaii Criminal Justice Data Center	X	X	X	
Child Support Enforcement Agency		X		
Juvenile Justice Information System (interface only)				X
State Department of Land and Natural Resources	X			
State Department of Transportation		X	X	
Hawaii Paroling Authority		X		
Department of Public Safety				
Oahu Community Correctional Center	X		X	
Hawaii Community Correctional Center	X		X	

Agency	DC Crim	HAJIS	JIMS Traffic	JUSTIS
Oahu Intake Services	X	X		
Maui Intake Services		X		
Hawaii Intake Services	X	X	X	
Kauai Intake Services				
Department of Public Safety (Oahu)			X	
Department of Public Safety (Maui)			X	
Department of Public Safety (Kauai)			X	
Department of Motor Vehicles				
City and County of Honolulu			X	
County of Maui			X	
County of Hawaii			X	
County of Kauai			X	
Driver License Financial Responsibility				
City and County of Honolulu			X	
Maui County			X	
Hawaii County			X	
Kauai County			X	
Prosecutors Office				
City and County of Honolulu	X	X	X	
Maui County	X	X	X	
Hawaii County	X		X	
Kauai County			X	
Public Defender's Office	X	X	X	
City and County of Honolulu Police Department	X	X	X	
Hawaii County Police Department	X		X	
Federal District Court/Probation	X	X	X	
Federal Treasury-IRS, Criminal Investigation	X	X	X	
Federal Justice-U.S. Marshalls	X	X	X	
Public Access through the Internet (data pulled to a separate server real time through Judiciary Website)		X		