Analysis of IT Governance Request #009 (REVISED)
Add Accounting Data to the Enterprise Data Warehouse (EDW)

Summary of Proposed Solution:
The solution the Administrative Office of the Courts (AOC) proposes will provide the courts with better tracking of accounting information, enhanced budget and revenue forecasting, and better audit and operational reports. The solution shall provide accounting data in the data warehouse and create canned reports to provide the reporting capabilities specified in this request. The accounting data in the data warehouse would be refreshed at regular intervals, which would be defined during the course of implementing the project. Requirements for the reports would be developed in close collaboration with court staff to ensure that the outcome meets the business needs of the courts.

This project carries several risks that could impact the successful completion of the project. The risks include: a lack of accounting expertise among the AOC technical staff, the potential necessity of upgrading the infrastructure to accommodate the solution, and potential resource conflicts with other projects.

Sizing:
The following estimate is based upon the best available information and does not include cost or effort estimates for ongoing maintenance of the enhancement.

This revised analysis has not yet been approved by AOC's Operations Control Board. Some estimates may change slightly in the final version to be submitted to DMSC on December 16, 2010.

AOC estimates that this project would require 15-18 months to complete. This is an estimate of the duration of the project from the date work would begin on the project until final implementation. Due to the size of this project, the actual time required to execute this project could vary from this estimate by plus or minus 5 months.

Group	Hours	Tasks
Court Education	330	Communication, documentation
Data Architect	32	Database design review of 10 tables in operational data store and statewide data repository
Database Administrator (SQL)	55	Building and loading ODS objects (15 hours) and overall system performance testing (40 hours)
Maintenance (JIS)	800	Support EDW in analyzing current system and data
MSD Fiscal	75	Contributing to requirements and SME
Data Warehouse	3113	See below
Quality Assurance	150	Testing of reports
Project Management	800	1/3rd FTE for length of project
Total	**5,355 hours (+/- 20%)**	

AOC staff costs estimated average is $50 per hour (composite AOC, not including benefits). Contractor staff generally costs $120 - $150 per hour.

Request:
The purpose of this request is to move accounting data from the Judicial Information System (JIS) into the EDW. In addition, the request seeks the creation of several reports to meet the needs of both Superior Courts and Courts of Limited Jurisdiction (CLJ).

Business Impacts:
This request will provide the courts better tracking of accounting information, enhanced budget and revenue forecasting, and better audit and operational reports. This request will also enhance the ability of the courts to answer inquiries from other agencies regarding accounting matters. This enhancement will also eliminate the current timing restraints on certain reports from Judicial Accounting Subsystem (JASS).

Proposed Solution:
Accounting information available at person and/or case level detail was identified as the highest priority area by an accounting work group comprised of both superior court and courts of limited jurisdiction accounting personnel.

Additionally, it was determined that making the reports available, without ad hoc capabilities, would be acceptable for the initial accounting implementation. See Attachment 1 for a list of the identified reports.

Based on this user input, the following revised estimates have been completed.

Assumptions:
1. Will be implemented as a stand-alone universe.
2. CLJ and Superior modules will be developed in a single universe.
3. Subject matter experts (SMEs) (i.e., court resources) will be available to define requirements and reports.
4. Current case level security structure will be used. Security rules which consider roles, such as cashier, do not exist and time to develop additional security is not included in this estimate.
5. Current Governmental Accounting Standards Board (GASB) universe will be incorporated into new accounting universe.
6. Court staff will be available for requirements development sessions to guide creation of the requested reports.
7. The requirement for how often the data in the data warehouse will be refreshed will be defined during the project in collaboration with court staff.

Risks:
1. Analysis of current environment may show infrastructure upgrades are required to support the additional accounting data and users.
2. Potential impact of the “Natural to Common Business-Oriented Language (COBOL)” project on this project.
3. Potential impact of “Master Data Management (MDM)” project on this project.
4. Potential impact of new case management system on this project.
5. Current data warehouse developer staffing levels are inadequate to staff both the project and the maintenance of the existing warehouse.
6. Complexity of post-implementation customer support could be significant and sustained.
7. Many of the AOC resources that would be required for this project do not have expertise in accounting.

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ATTACHMENT 1: REPORT LIST

The following reports were identified by the work group as having the highest priority. In the warehouse, they will be configured as pre-defined reports that will run on demand. Court users will provide input parameters, such as date range or case type, when submitting a report request.

The following reports currently exist in JIS and/or SCOMIS and will be recreated as described above:

1. Interest accruals associated with A/R type
2. Remittance Summary by BARS codes
    a. Detail
    b. Exception Reporting
3. Accounts Receivable Report (ARR)
    a. Detail
    b. Summary
4. A/R Entered, Paid, and Outstanding
    a. Detail
    b. Summary
5. AR Adjustments Report
    a. Detail Report
    b. Exception Reporting
6. Case Financial History (CFH)
    a. Detail
    b. Summary
    c. Exception Reporting
7. Cases with ARs Paid-in-Full Report
8. Payment Monitoring Report (PMR)
    a. Detail
    b. Summary

The following new reports were also identified. Detailed requirements for them have not been identified:

1. AR balance by type, AR and payment aging
2. Cases with finding date and A/Rs in potential status
3. Collection case information (limited to obligations)
4. Collection reports for parking cases
5. LFO Balance Report

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ATTACHMENT 2: Detailed Work Breakdown:

Extract, transform and load (ETL) development (move data from production databases to data warehouse tables)

Operational data store (from production to staging)	**Estimated hours**
Add operational data store tables to ER Studio (approximately 44 source tables)	4
Submit for approval and attend design review meetings	8
Add operational data store tables to data mirror	1
Create change data capture views	8
Operational data store mappings (document and develop 44; migrate mappings to prod)	80
Testing (type test scripts and test initial load)	40
Change data capture testing	8
Statewide data repository (from staging to warehouse)	
Review report logic (approximately 12 reports)	512
Design target tables (estimated 35 new tables)	80
Universe changes and mockups	80
Add operational data store tables to ER Studio (estimated 35 new tables)	4
Submit for approval and attend design review meetings	8
Operational data store mappings (document and develop 35; migrate mappings to production)	600
Testing (type test scripts and test initial load)	80
Change data capture testing	8
ETL SUBTOTAL	**1512**

Business Intelligence development (user interface and reports)

Recreate 15 current production reports (requirements, code, test, implement)	567
Create 5 new reports (requirements, code, test, implement)	390
Universe design	192
Universe implementation	6
Universe testing	128
Report testing	318
BI SUBTOTAL	**1601**

EDW DEVELOPMENT TOTAL **3113**

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