Reallocating SRDB Functionality

CITI Meeting
January 11, 2005
Today’s Administrative Systems

**Reports**
- Batch Reporting
  - Focus ad hoc reports

**Data**
- DB2
  - VSAM
- VSAM
  - DB2
- DB2
- DB2
- DB2

**Applications**
- Admissions*
- Student Records
- Financial Aid
- Billing & Accounts Receivable
- Purchasing & Accounts Payable
- Financial Systems
- Payroll
- Budget
- SRDB

**Data Warehouse**
- OASIS
- Query Database

**Self-Service Web**
- API's
- MRE
- RO Reports
- my.ucla
- Grade Book
- URSA
- Financial Web Reports

*Graduate, Undergraduate, Law, Medical, Dental, Anderson

- Proposed
- Test
The Student Data Domain

SRSweb

myUCLA

URSA

“Green Screens”

Book of Record Data (Other)

SRDB

Replicated and Private Data

COM Objects

TRANSACTION SYSTEM
(COBOL / CICS)

Book of Record Data (Student)

Reporting

Departmental Systems

Replicated Data (Student and Other)

Replicated Data (Other)

Replicated Data (Student and Other)

Reporting (FOCUS)

Reporting (COBOL)
The “Thin Mainframe” Concept

- **STUDENT RECORDS Transactions**
- **Other Mainframe Systems**
- **Other DB2 Databases**
- **STUDENT RECORDS**
- **Extraction, Transformation, and Loading (ETL)**
- **Campus Data Warehouse**
- **Departmental Systems**
- **Department Data**
- **Reports**
- **“Green Screens”**
- **COM Objects**
- **URSA**
- **myUCLA**
- **Reporting Tools**
Data Warehouse and “Support”

Student Records

Campus Data Warehouse (Student Dimension)

Campus & Unmet Needs Registrar
**SRDB Discussion Focus**

**PHYSICAL ACCESS:** Networks, Workstations, PDAs, etc.

**PRESENTATION**

**TOOLS:** Query, Reporting, Download

**STUDENT DATA SERVICES**

| Transaction System | Published APIs and Services | Private Services |

**STUDENT DATA MANAGEMENT SERVICES**

- **“STUDENT” Academic Data**
- **RECORDS” Supporting Data**
- Dimensional Data Warehouse
- Operational Data Store
- “Private” Data
- Directories

**MANAGEMENT:** Data Replication, Extraction, Transformation and Synchronization Tools
SRDB and EDIMI

**PHYSICAL ACCESS:** Networks, Workstations, PDAs, etc.

**PRESENTATION**

**TOOLS:** Query, Reporting, Download

**STUDENT DATA SERVICES**

- Transaction System
- Published APIs and Services
- Private Services

**STUDENT DATA MANAGEMENT SERVICES**

- "STUDENT RECORDS"
- Dimensional Data Warehouse
- Operational Data Store
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**AUTHORIZATION SERVICES**

**DIRECTORY SERVICES**

**MANAGEMENT:** Data Replication, Extraction, Transformation and Synchronization Tools
Authorization Issues To Be Resolved

- In theory EDIMI is web-analogue to DACSS
  - Single campus-wide authorization service
  - Improves security and access control
- Practical impediments:
  - Required security model is beyond scope of EDIMI
  - Industry standards are still in the making
  - Course management systems implement their own
  - Inconsistent interface to laboratory access controls
SRDB and Campus Systems

**PHYSICAL ACCESS:** Networks, Workstations, PDAs, etc.

**PRESENTATION**

**TOOLS:** Query, Reporting, Download

**STUDENT DATA SERVICES**

Transaction System

Published APIs and Services

Private Services

**STUDENT DATA MANAGEMENT SERVICES**

“STUDENT” Academic Data

“RECORDS” Supporting Data

Dimensional Data Warehouse

Operational Data Store

“Private” Data

Directories

**MANAGEMENT:** Data Replication, Extraction, Transformation and Synchronization Tools
myUCLA Issues To Be Resolved

- Posting of enrollment transactions
  - Mainframe is not available 24/7 to process
  - SRDB provides a “store and forward” service
    - Registrar’s policies still to be formulated
- Gradebook
  - Tightly coupled with the SRDB logic
    - Will require significant redesign
  - Most course management systems have their own
    - Unclear whether they provide better solution
Campus Concerns

➢ Many SRDB interfaces will have to be rewritten
  ❖ Underlying (TXN) data model has been changed
  ❖ Impact unclear until campus has Cognos experience
    ▪ Quite a few naïve users in smaller units
    ▪ A lot are one-of-a-kind procedures

➢ AIS’ USR process too slow for most changes
  ❖ Fact: Registrar can continue to provide same service
    ▪ Level of service doesn’t depend on technology
  ❖ Fact: Users have more flexibility, if they so desire
    ▪ Policies on control of use have still to be developed