

Service Oriented Architecture GDS

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Current System Features

- 175 Gigabyte Oracle database with 16 years of data
- Web, Client/Server and Batch platforms
- Secure web applications
 - Students, high schools and post-secondary institutions
- In-house Oracle Client/Server application
 - Internal staff for update and inquiry
 - Converting to web
- Oracle PLSQL batch processing runs daily, weekly, monthly, annually, and special award cycles

SOA Objectives

- Provide more flexible services to high schools, institutions and students
- Automate information exchange between schools and CSAC
 - Reduce institution and high school workload
 - Reduce workload for CSAC staff
- Automate reconciliation
 - Provide more accurate and timely accounting and budgeting information for the state
- Enhance security of confidential information

SOA Status

- FSR approved by DOF FY 2005 -06
 - Not funded during the May Revise
- Resubmitted FSR to DOF July 2005 for FY 2006-07
 - Currently under evaluation
 - Revised to include database restructure for increased security

SOA Implementation

- Two Phases
 - Phase 1 – Real Time Database
 - Estimated start date July 06
 - Implementation projected July 07
 - Phase 2 – Web Services
 - Requirement gathering during phase 1.
 - Estimated start date July 07
 - Implementation projected July 08
 - Initial pilot project for participating schools

Phase I-Real Time Database Functional Requirements

- Provide Real Time data services to students, institutions, high schools and CSAC staff
- Provide students web tools to reduce barriers for getting a Cal Grant.
 - Allow students to authorize CSAC to obtain the HS GPA from their HS.
- *Restructure the database to remove the Social Security Number as common key and encrypt confidential data.*

Phase I - Real Time Database Benefits

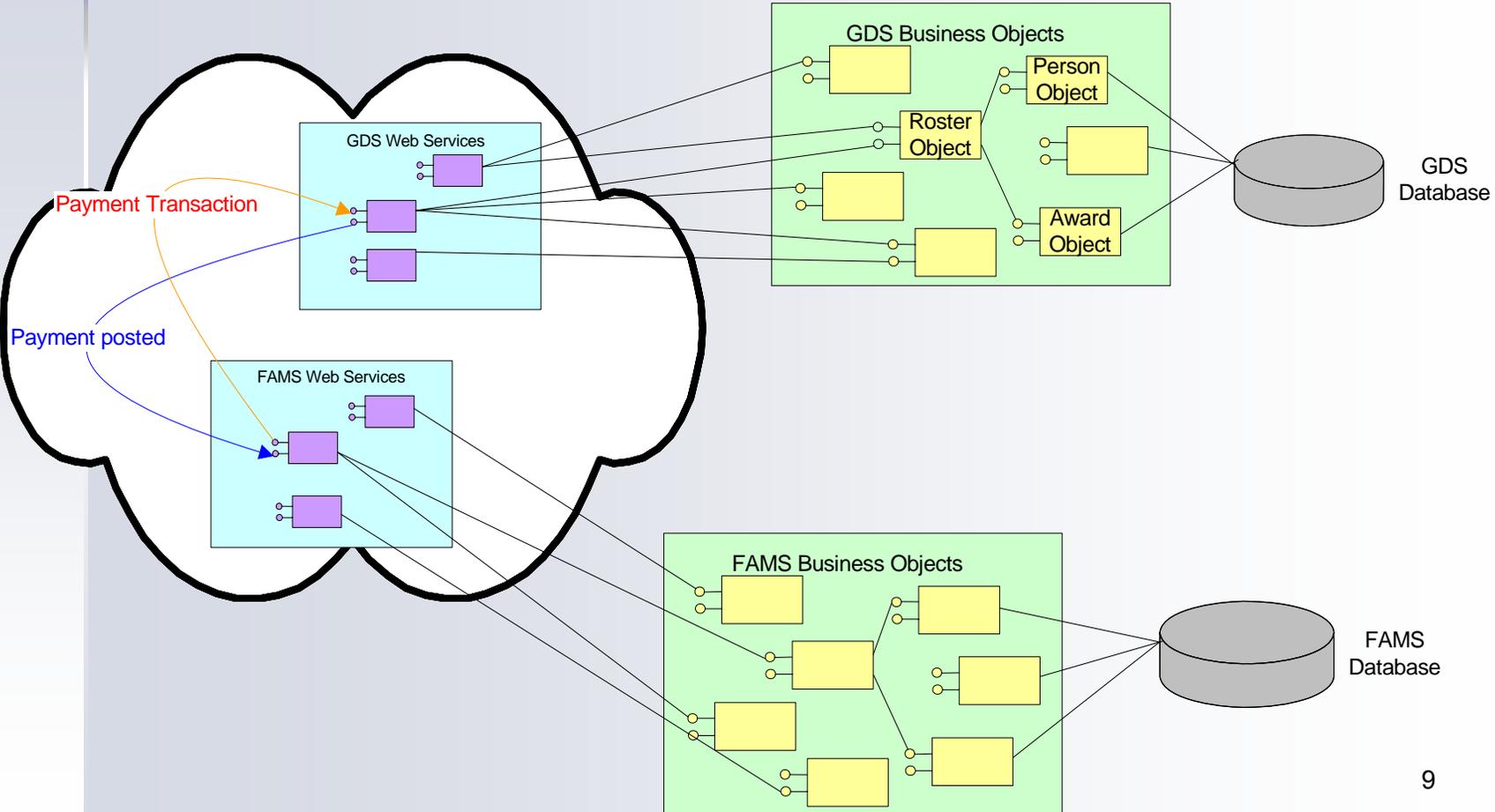
- Reduce reconciliation and synchronization workload
- Provide current information to staff and users
- Continue to support existing systems without change
- Enhance security of stored confidential data
- Provide rapid disbursement of funds
- Allow the initiation of Phase II

Phase II- Web Services

Functional Requirements

- Implement new USDE ISIR XLM upload
- Provide automated, virtual integration between GDS, institutions and high school information systems using Web Services
- Provide the Grant web service component for students, schools and other partners that would allow creation of virtual integrated Financial Aid Portals by schools and other partners.
- Continue to support the current institution processes so institutions have choice in when and if they transition

Phase 2 Web Services Architecture



Phase II- Web Services

Benefits

- Increases flexibility and ease of changes
- Reduces duplicate key data entry for schools
- Provides automated reconciliation of data between systems
- Makes GDS transparent to participating schools
- Allows CSAC to process new USDE ISIRS
- Provides decentralized view of grant information
- Automates real time disbursement of funds by transaction
- Allows schools and partners to provide real time financial aid portals to students.
- Facilitates packaging for schools
- Provides greater security for system data