

Arizona Department Of Education

# **SAIS**

Student Data Base System

Dec., 2000

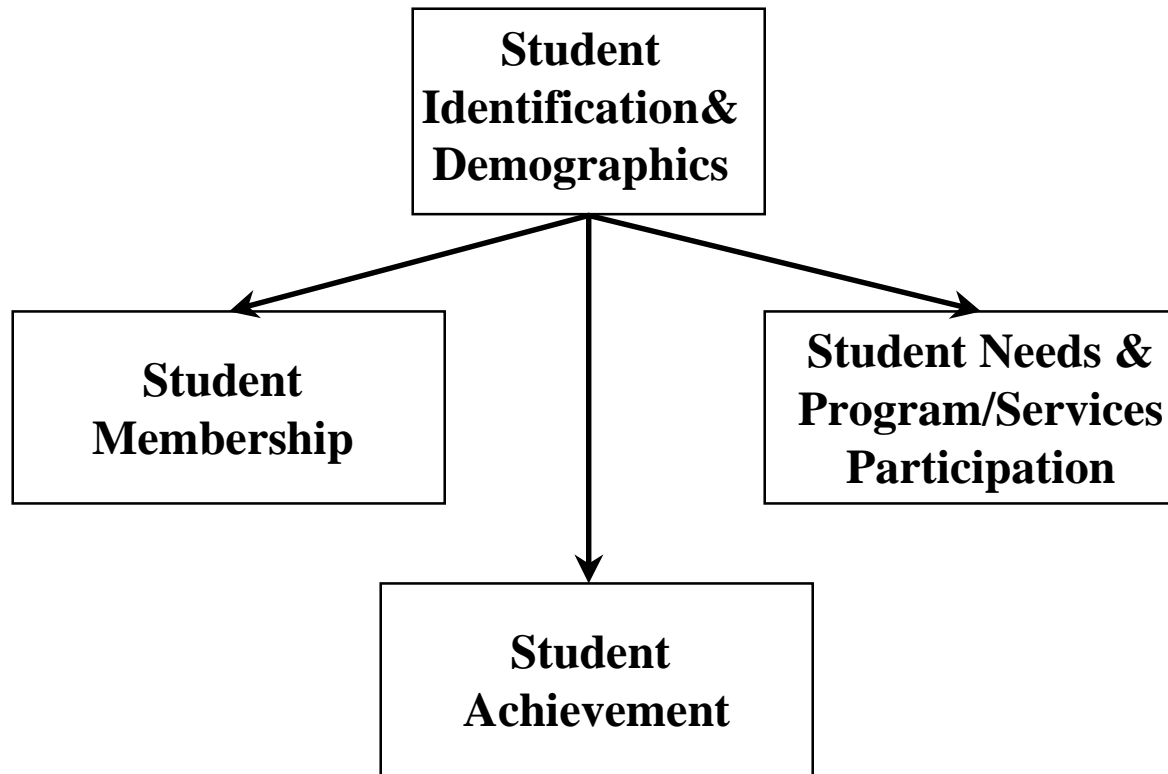
# Legislation

- **PROP 301 Passed**

# SAIS Student Data Sources

- SAIS will collect data pertinent to Student Funding
- SAIS will incorporate achievement data received from the test agencies

# Student Data Categories



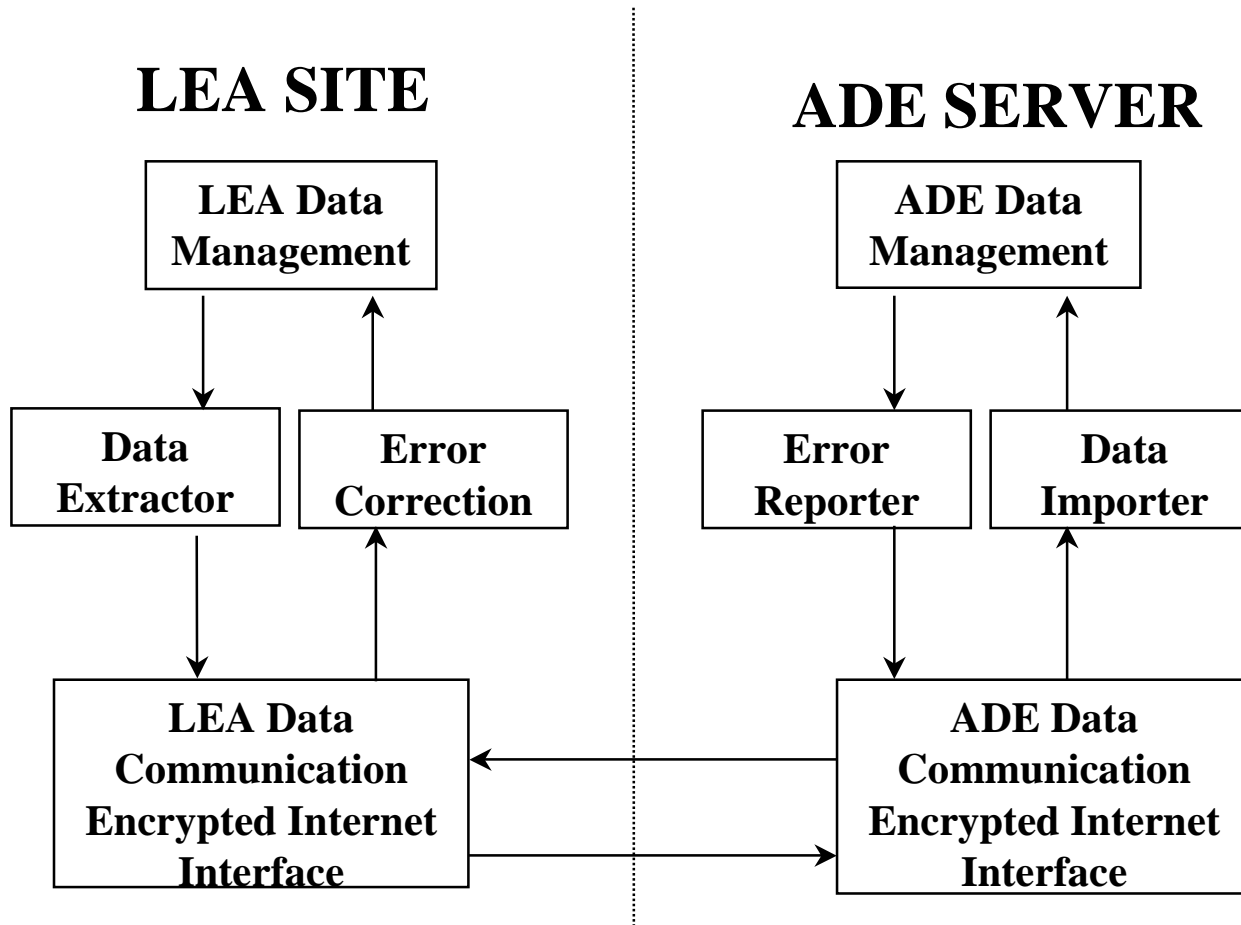
# Membership Related Data

- Student Enrollment
- Student Readmission
- Student Withdrawal
- Student Absence
- Student Attendance for Preschoolers, Homebound, Alternative High School Program?
- Student Personal Information Change
- Student Membership Change
- Student District Of Residence Transfer
- Student Full Time Equivalence (FTE) & Share
- Student Grade Transfer
- Student Payer Factors
- Student Status - Year End & Summer Withdrawals

# Needs & Program/Service participation data

- Student Needs
- Student Limited English Proficiency Assessments
- Student Participation in English Acquisition Program
- Student Participation in Special Education (SPED) Service
- Student Participation in Supplementary Program

# SAIS Design - System To System communication



# Data Collection

- **Funding Related Data** - The Student Management Software (SMS) vendor will add to the software an automated Interface to provide the data to SAIS.
- The required interface features are:
  - Date controlled extraction of resolved student event data
  - Generation of data transactions and submission file
  - Schedulable File submission to ADE using secure internet protocol
  - Reception of response files from ADE
  - Tracking submitted & response files locally
- **Achievement Data** - Will be loaded from CD's received at ADE from testing agencies



# Data Submission

- Initial Data Load - A Snapshot of Students expected to be enrolled in FY 2001/2002
- On Going Submission of **Changes** - Student events which occurred recently e.g. new enrollments, withdrawals, absences, change of district of residence, new assessments of English proficiency

## Web File Submission Option - Run by LEA Staff

LEA designated staff will:

- Activate transaction generation module
- Access the new ADE web Common Log system
- Select the secure Student Database web page
- Enter the local location of the file to be submitted
- Clicks submit
- File will be sent over encrypted link to ADE Server

# Automated File Submission Option - Run by A Vendor Developed Interface Module

- A transaction generation module will extract data and generate transaction file on schedules provided by LEA designated staff (preferably daily)
- A submission module embodying the log-on and application selection functions, will send file to ADE site via encrypted link with no human intervention

# SAIS Transaction Validation

- SAIS checks that every data transactions is in the expected format and reports format errors
  - Format errors imply “bugs” in the transaction generation program
- SAIS checks business rules (derived from legislation) and reports statutory and inconsistency errors
  - To correct errors LEA must rectify data in the local source database. (e.g. absence on a no session date). The changes should be picked up in the next extraction

# SAIS Response to LEA - ADE Student ID

- SAIS will assign an ADE ID to every student
- The ADE ID will be stored at the LEA student data base store
- ADE student ID files will be delivered after the initial load
- From there on, an ADE student ID file will be delivered in response to every new submitted New Enrollment Transaction

## SAIS Response to LEA - per submitted file

- SAIS response file will provide:
  - # of transactions received, # accepted, # rejected,
  - list of rejected transactions with error messages
- The response file will be placed in a **Response Database** at ADE, accessible to authorized school/district staff

# SAIS Response - Delivery options

- Manual Pull: Authorized staff will access response database to download responses
  - SAIS will send notification on response availability to E-mail address provided on header of submitted file
- Automated Pull: The local Interface module will access the SAIS response database and download Response Files
- Automated Push : SAIS will send encrypted Response Files to Internet address provided on header of submitted file

# Tracking of File Submission & Error handling

- The SMS Interface should have a module to:
  - Track submitted files and their respective responses
  - Pull/accept response files from ADE response database
- Software vendor and client schools will define local error handling procedures for rejected transactions



# LEA Curricular Information To Be Collected Via Web Data Entry

- Calendar - will be ready for FY 2000/2001
- Approved and offered grades
- Programs and Services Offering & Participating Schools
  - Bilingual Programs
  - Special Education Services
  - Supplementary Programs (Federal Titles)

# Security

- Student level data will not be published
- ADE staff will not update student data
- Student data will be encrypted prior to submission, using Web Secure Socket Layer (SSL)
- Every reporting LEA will assign an authorized person to handle submissions and errors
- Response files from ADE will be encrypted prior to submission using Web SSL

# Role of Student Management Software (SMS) Vendor

- Develop the Interface (transaction file generation, data exchange, submission/response tracking, error handling procedures)
- Test the Interface
- Plan for implementation at LEA sites
- Train LEAs and RTCs

# LEA Role

- Map SAIS data elements to local data elements
- Augment local database and implement local new procedures (e.g. Special Education. Bilingual Assessments)
- Submit implementation plan
  - Inventory of local infrastructure for all schools - hardware, software, connectivity (Under way)
  - Request financial/technical assistance (assistance criteria will be published)
  - Installation and training schedules for all schools
- Test Interface installation and operation with vendor and SAIS

## How Will ADE Use The Data

- All student counts necessary for state aid will be calculated by SAIS for all schools and districts
- All student related reports mandated by state statutes and federal laws will be produced by SAIS.
- All student counts and reports will be provided to schools and districts
- ADE will perform on-going research and analysis on matters of accountability such as: achievement progress, cost of education, mobility, investment loss (absence & dropout)
- ADE will be able to perform timely analysis in support of legislative and policy initiatives and issues

# Reports To BE Eliminated

# Current State Reports Submitted to ADE

- Graduation Rate Study
- Arizona Language Census and Program Report (ALCAP)
- October Enrollment
- 40th Day ADM
- 100th Day ADM
- Special Education Census
- Limited English Proficiency
- Year End Enrollment

ELIMATED

TO BE

## Major Kinds of Federal Reporting Requirements

- Number Schools By Rate Of Progress Towards State Achievement Standards (Title I)
- Number of Schools By Level Of Poverty - % Of Students Eligible For Free/Reduced Lunch (Title I)
- Number Of Students Achieving Proficiency Level By School, Subject Area, Student Need (Poor, Migrant, Disabled), Student Ethnicity/Race, Student Gender, Program Scope (Targeted Assistance Or School Wide Assistance) (Title I)



## Major Kinds of Federal Reporting Requirements

- Census Of Students Participating In Title I Funded Programs On The 100<sup>th</sup> Day Of School By Title I Subsection, Student Gender, Student Need (Disabled, Limited English Proficiency, Migrant, Homeless), Ethnicity/Race, Education Level (Preschool, Elementary Etc), Instructional Services/Subject Area, School Term, Support Services
- Number Of Students By Title I Subsection, School, Program Scope, Student Need, Student Age Group/Grade Level

## Major Kinds of Federal Reporting Requirements

- Students Eligible For Migrant Services By Age/Grade Level, Term Of Program, Eligibility Period (Title I)
- Number Of Schools That Used Title I Funds For Programs Delivered Outside The Regular Instruction Schedules
- Number Of Students Participating In Each Of Predefined List Of Programs/Services Title IV)
- Number Of Schools That Received Both Title I And Title II Funds By School Level Of Poverty (Title I & II)
- Number Of Title II Funded Programs By School Level, Program Duration, Active Hours (Title II)

# How Will ADE Maintain The Data

- SAIS will track a student from Preschool to Graduation
- All known measures of security will be applied initially and enhanced as new measures evolve
- Data will be updated only by district/school, NOT by ADE staff
- ADE will comply with FERPA. Individual student data will not be published or given to other organizations

# Where Are We?

- Unit testing transaction processing
- Preparing test cases for quality assurance tests, to be shared with all vendors
- Defining aggregation and other batch processes.
- Testing live membership related transactions provided by MIG with Roosevelt ESD
- RTCs staff are presenting the system to small school districts & charter schools and assisting in software acquisition
- Surveying presence of hardware, internet connection and SMS in all schools.

## Vendors Committed to SAIS

- NCS - SASIxp, CIMS, Osiris
- MIG - SIRS
- PowerSchool - PowerSchool
- Olympia Computing Co. - Schoolmaster
- Business Innovation - Sissy
- Oscar Inc. - Oscar
- Educational Administration Data Systems - EADS

# SAIS Contacts

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Or

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# Q & A