



Session 16

Standard Student Identification Method

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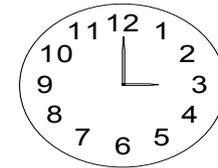
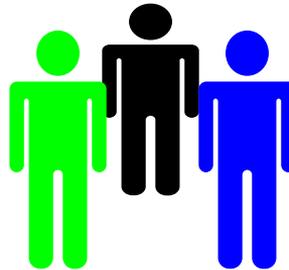
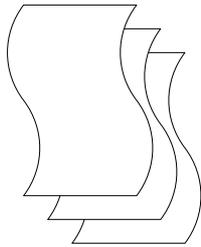


Agenda

- Opening Remarks/Introduction
- Overview of Data Strategy
- Standard Student Identification Method (SSIM) Update
- Next Steps

Data Strategy Purpose

The Right Data to the Right People at the Right Time.



- Consolidation of Data into Shared Source
- Focus on Data Quality
- Standard Student Identification Method
- Trading Partner Management
- Routing ID
- Access Management
- Integrated Student View
- Integrated School View
- Foundation for more Timely and Efficient Processing

Data Strategy Initiatives

- **Data Framework**

- As-Is and Target State Data Flows
- Data Quality Mad Dog and Quality Assurance Strategy

- **XML Framework**

- XML ISIR
- XML Registry and Repository

- **Common Identification**

- Standard Student Identification Method
- Routing ID

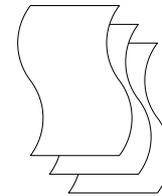
- **Trading Partner Enrollment and Access**

- Single Sign-up
- Single Sign-on

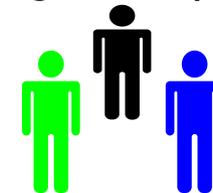
- **Technical Strategies**

- FSA Gateway

Right Data



Right People



Right Time





Data Strategy Desired Outcomes

The Data Strategy defines FSA's enterprise data vision and strategy for how it will combine tools, techniques and processes to handle its enterprise data needs.

- **Cross-Program Integration**
 - Business objective gathering sessions comprised of cross-channel business owners and the establishment of Standard Identifiers for Students and Schools
- **Improved Data Quality**
 - Through the execution of a Data Quality Mad Dog and the creation of a Quality Assurance and Implementation Plan
- **Improved Organization and Distribution of Data**
 - Creation of an XML Framework and Internal and External Data Exchange Strategy
- Establish a **Data Storage Strategy**
 - Data Warehouse and Data Mart Strategy
 - Plan for organizing data to answer broader, deeper business questions



Standard Student Identification Method (SSIM) Overview

- What is SSIM?
 - SSIM seeks to establish a simple framework by which FSA and Delivery Partners can consistently identify students/borrowers across all phases of the Student Aid Lifecycle
- What will SSIM do?
 - Consistently and systematically link customer records across the FSA enterprise
 - Support changes and updates to key customer attributes (i.e., updates to SSN, First Name, DOB, Last Name)
 - Ensure student privacy protection; minimize unauthorized/unauthenticated access to student data
 - System identification requirements should not prevent valid customers from receiving aid or progressing through the repayment phase (i.e., deferments, rehabilitations, consolidations)



Standard Student Identification Method (SSIM)

- Why is SSIM needed?
 - Unique customer records can be inappropriately merged created privacy concerns
 - A customer's records cannot be linked appropriately preventing FSA from viewing data about a customer across all phases of the lifecycle
- What causes these Problems?
 - All FSA systems may not be using the same additional identifying data. Most systems employ different rules for determining uniqueness or identities for inbound or outbound interfaces
 - Some FSA systems complete an SSN verification with SSA before data is processed; others do not perform the SSA match when new information is received
 - Changes or corrections to identifying fields (i.e., SSN) are not consistently supported or propagated throughout the FSA enterprise



SSIM Solution Summary

- Three-Pronged Recommended Solution
 1. Primary Identifier Verification with the Matching Algorithm
 2. Additional SSA Verification
 3. Consistent Error Handling and Change Processing

- This solution leverages effective, proven identifier solutions already being used in some parts of the FSA lifecycle. Roll-out of these tools and processes consistently shall tighten controls and improve data integrity/consistency.



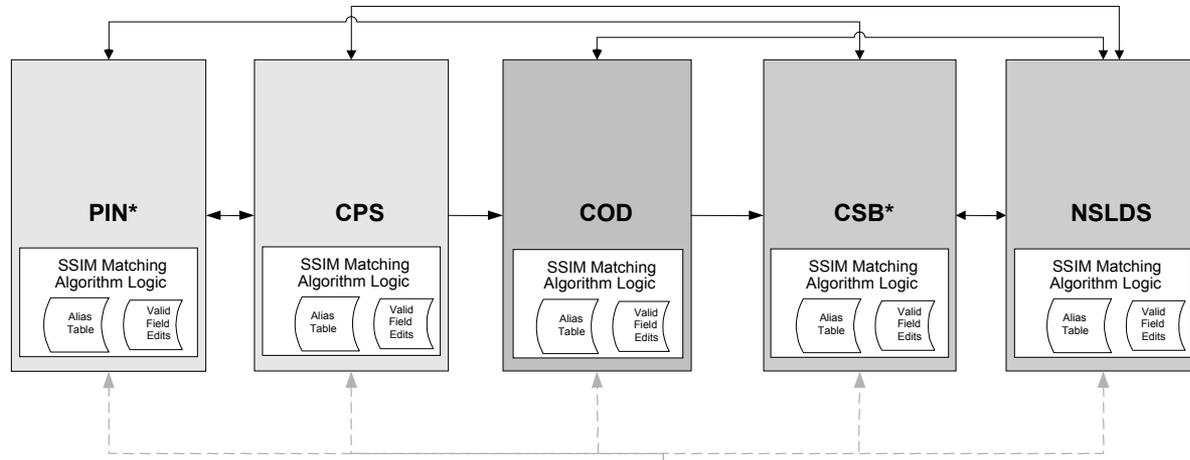
SSIM Implementation Recommendation

The recommended SSIM implementation option consists of two stages following a pilot that will allow early realization of the SSIM benefits, but also maintain alignment with the FSA Data Strategy overall vision

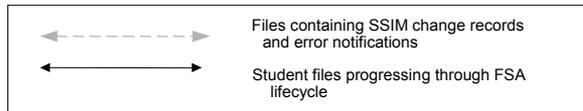
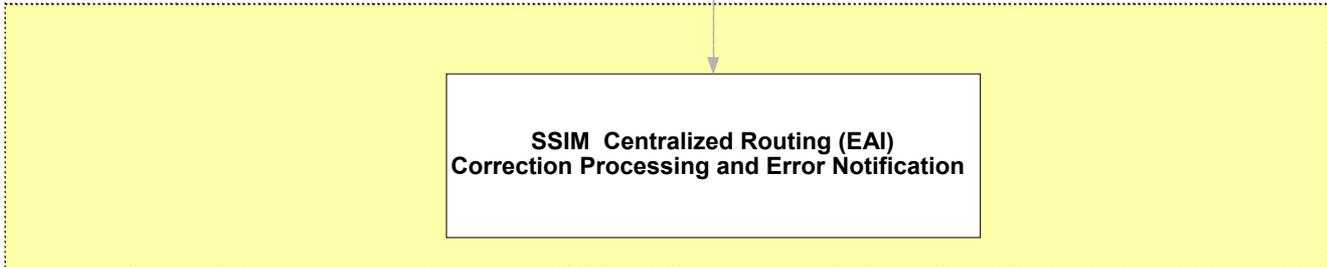
- SSIM Pilot
 - SSIM logic will be implemented in CPS for renewal FAFSAs only (planned for '04 – '05)
- Stage One - Implement the algorithm at the system level and use centralized routing (Enterprise Application Integration -- EAI) for error handling and change processing
 - Individual application's implementation of the matching algorithm option for processing input files from one system to another
 - Error handling and correction processing would be implemented through centralized routing (EAI) to allow communication/propagation to systems as determined
 - Implementation would begin with the next requirements cycle ('05 – '06) with CPS, NSLDS, and COD as potential candidates
- Stage Two – The team will create a picture and high level plan on how to include SSIM in the overall Data Strategy end state vision
 - The team will assess how SSIM will fit into the overall Data Strategy vision

SSIM Implementation Recommendation – Stage 1

FSA Application Level
For flow of student records through the lifecycle from one FSA system to another



FSA Centralized Routing (EAI)
For changes and corrections to student SSIM data that must be communicated across the enterprise



** Because of current CSB and PIN efforts, these systems are not targeted for Stage One implementation*



SSIM Matching Algorithm

- What is the Matching Algorithm
 - Requires a combination of data fields common to all systems
 - Social Security Number is primary identifier, but it will be verified through enterprise-wide business rules and tolerances with additional data fields:
 - First Name, Date of Birth, Last Name
- Why a Matching Algorithm
 - Consistently identify customers throughout internal (FSA) data exchange and external data exchange
 - Use of this algorithm is a proven practice within FSA internal and external data exchange
 - Requires only data currently existing in FSA systems
 - Provides flexibility in allowing a phased implementation

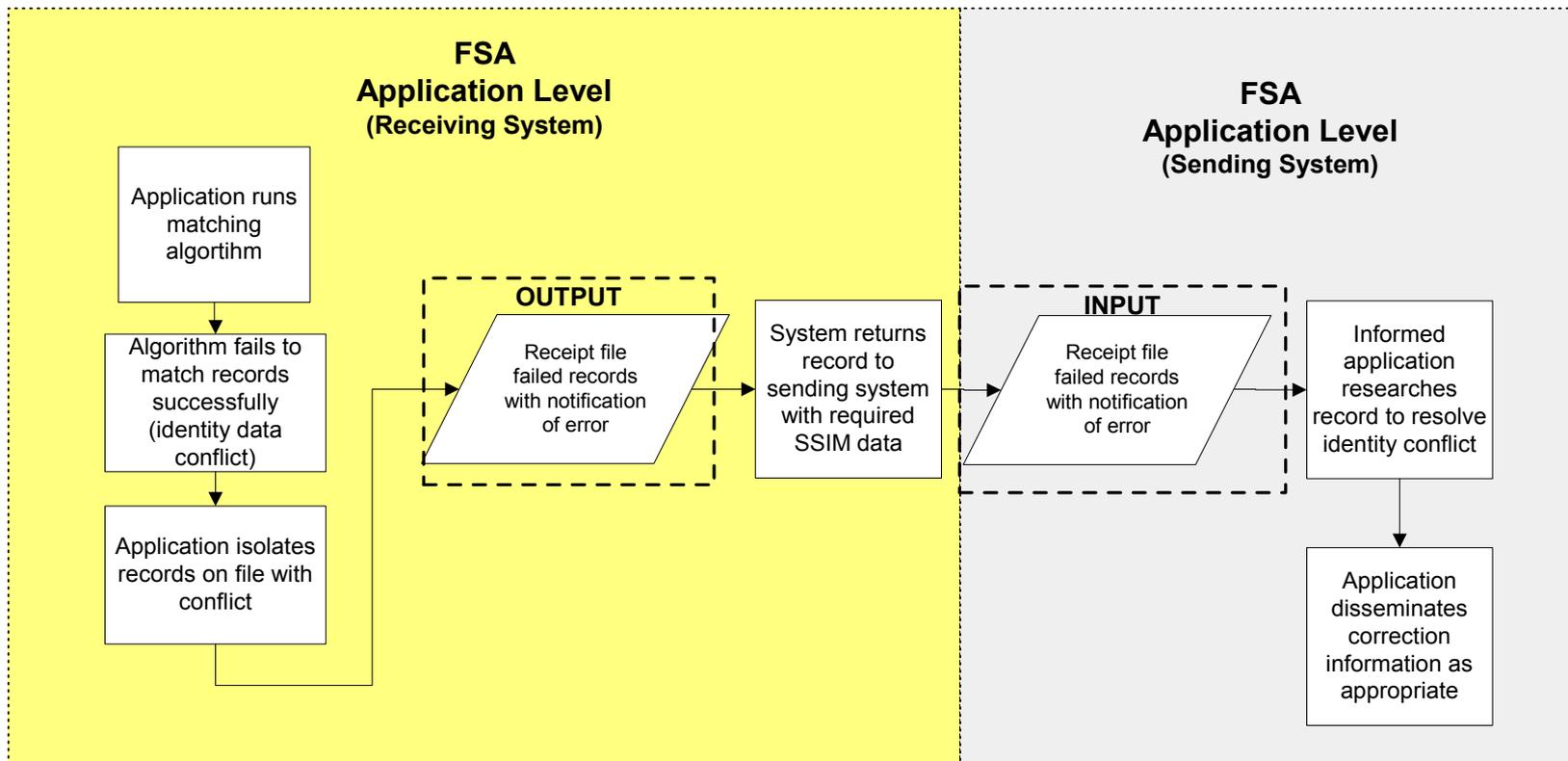
SSIM Matching Algorithm

The matching algorithm will be a series of 4 comparisons of identifying data. Any one successful comparison constitutes a successful match.

Comparison	SSN	First Name	Date of Birth	Last Name
1 st SSN, First Name, and DOB	Current SSNs must match exactly on all 9 digits of the SSN on the student record.	3 of the first 4 significant characters of the first name must match in sequence* (in current or history), or alias matches exactly. Names of 3 characters or less must match exactly.	Year matches exactly; or Year matches plus or minus one, with month matching exactly; or Year matches plus or minus ten, with month and day matching exactly; or Date is an acceptable plug date	N/A
2 nd Transposed First and Last Names	Current SSNs must match exactly on all 9 digits of the SSN on the student record.	Three of the first four significant characters of <i>last name on incoming record</i> must match in sequence (in current or history), the first name on the receiving record. or alias matches exactly. Names of 3 characters or less must match exactly.	Year matches exactly; or Year matches plus or minus one, with month matching exactly; or Year matches plus or minus ten, with month and day matching exactly; or Date is an acceptable plug date	N/A
3 rd First Initial Provided for First Name w/ exact DOB	Current SSNs must match exactly on all 9 digits of the SSN on the student record.	First name begins with same letter as first initial (a name that is an initial only or an initial followed by a period, not a comma).	<i>Day, Month, and Year Match Exactly</i>	N/A
4 th First Initial Provided for one of the First Names w/ check on Last Name	Current SSNs must match exactly on all 9 digits of the SSN on the student record.	First character of first name matches first character of first name or first initial (current or history).	Year matches exactly; or Year matches plus or minus one, with month matching exactly; or Year matches plus or minus ten, with month and day matching exactly; or Date is an acceptable plug date	Five of first seven significant characters of last name match in sequence (current or history). If fewer than five characters, all characters must match.

Error Handling Highlights

Centralized routing (EAI) will be used to send error notifications to FSA systems based on business rules. Usually errors will be sent from the receiving system to the sending system.



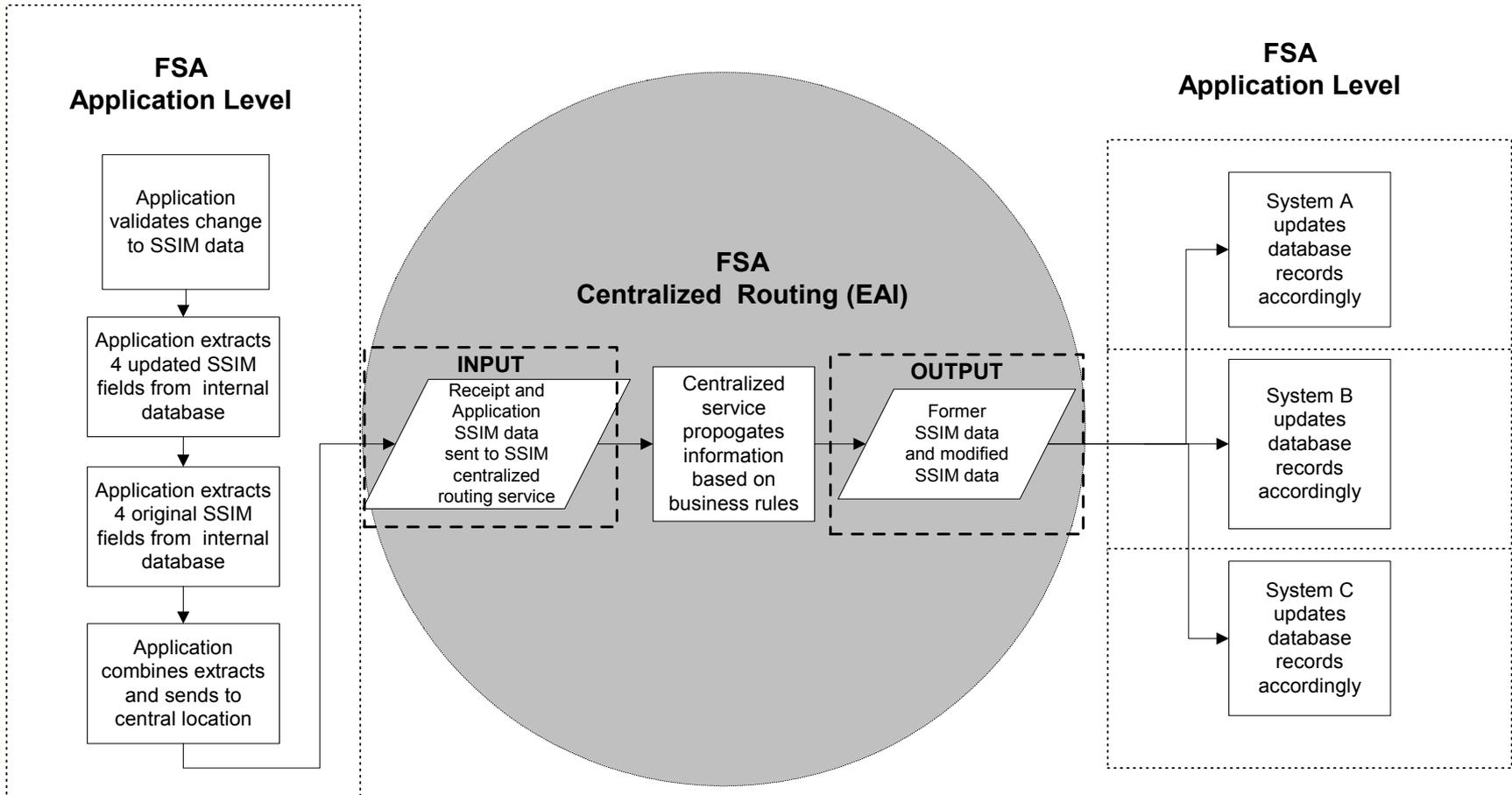


Error Handling Highlights

- Error Handling
 - Sending and receiving systems will work in combination to resolve the error
 - Sending systems will be *primarily* responsible for resolving SSIM errors
 - Error notifications should only be sent to the sending system
 - In Stage 1 there is no need for a centralized error handling team
 - Resources should be dedicated at the system level to resolve errors

Change Processing Highlights

Centralized routing (EAI) will be used to propagate Change/Correction Processing to multiple FSA systems simultaneously based on business rules.





Change Processing Highlights

- Change Processing
 - All validated SSN, Name, and DOB changes should be sent to all systems forwards and backwards in the lifecycle
 - Centralized router will help determine appropriate recipients of change
 - All open status records should be updated
 - Systems will need to determine how to handle closed, archived, and record not found updates



SSIM Next Steps

- Begin SSIM Pilot on Renewal FAFSAs in CPS
- Select Stage 1 Participants and Begin Requirements Gathering for the 2005-2006 Software Release
- Continue to align SSIM with the Data Strategy End State Vision (Stage 2)



Technical Assistance

We appreciate your feedback and comments. We can be reached at:

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