



A MODEL Connected and Secure Data System from LEA to SEA.

Turning a statewide data collection from compliance to productive tool

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Welcome

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The Problem

- State reporting is a significant effort and adding value to this process would improve engagement
- Modernized infrastructure would eliminate many pain points with state reporting
- State internal interoperability needs are significant and would benefit from real-time data from districts
- District reliance on state reporting data for internal needs would improve quality of state reporting data



The Problem

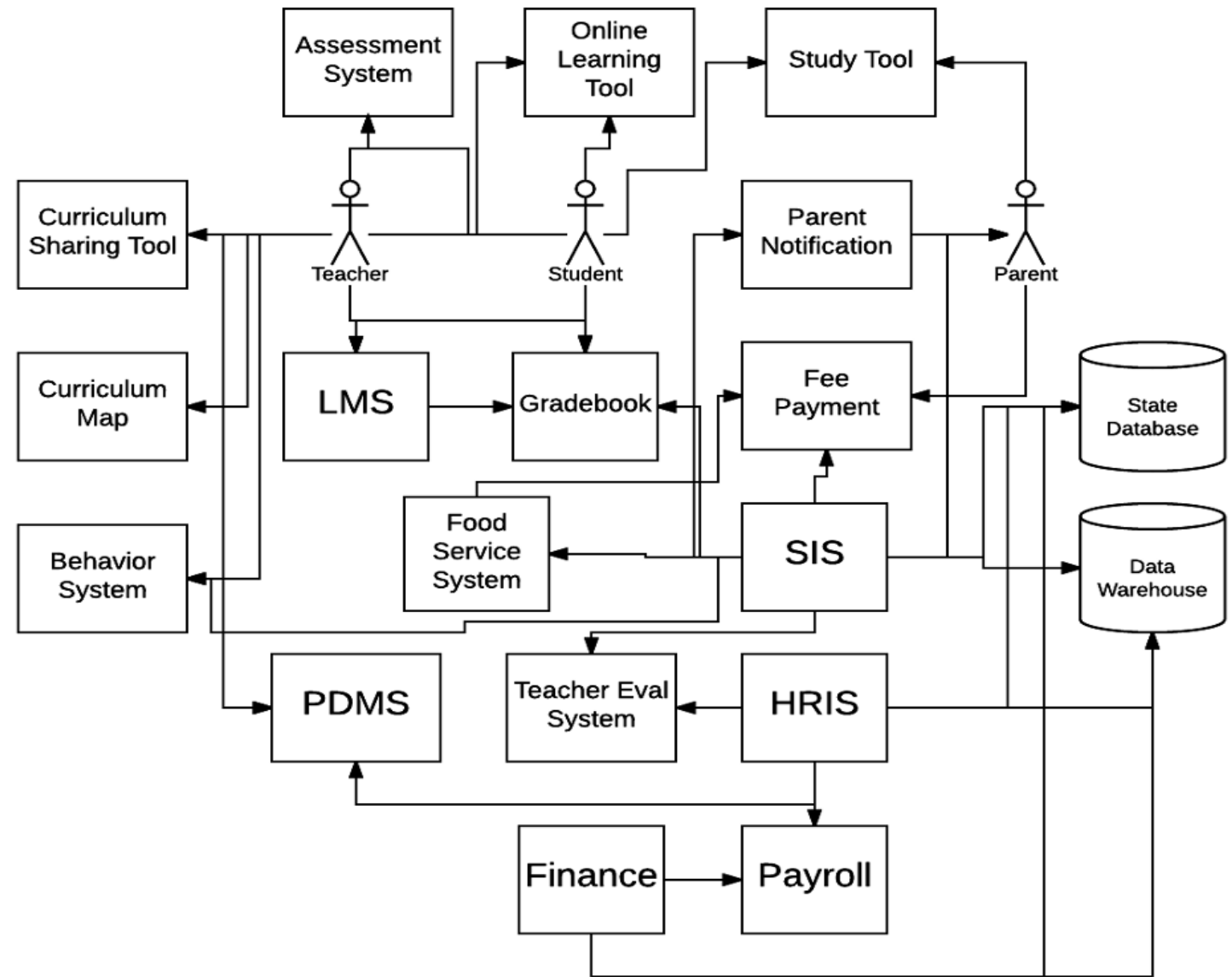
- District data management is a complex and resource-intensive
- Edtech vendors leverage a variety of rostering standards or proprietary approaches
- Standards are often not implemented with fidelity
- Unique district implementations and scenarios do not translate easily to standards
- Historical rostering solutions do not address privacy requirements

MA EOE Implementation



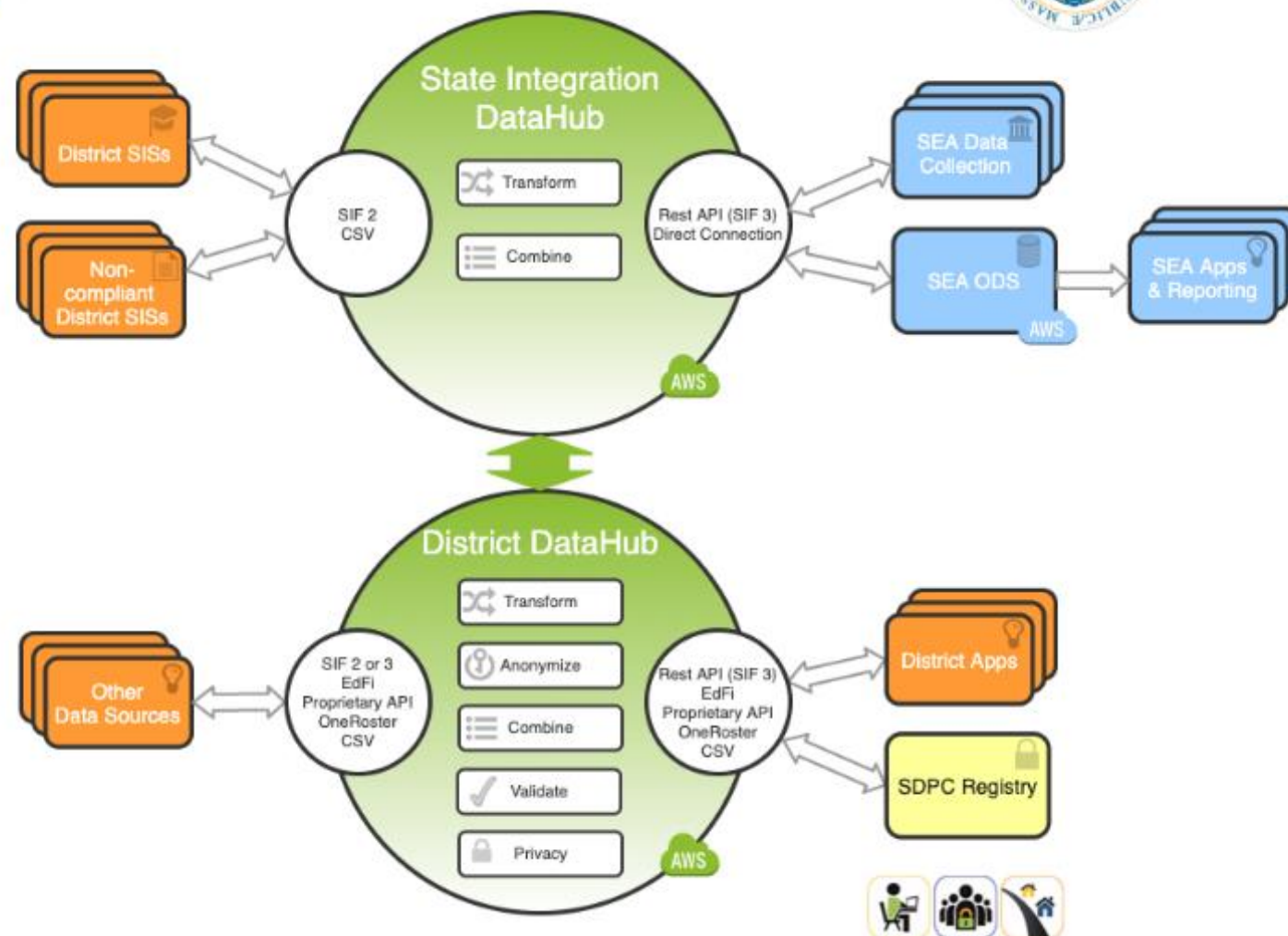
- Historical picture of district systems
- Historical picture of state reporting
- Evolution & merging of state & district needs
 - Why not address both problem sets at the same time
 - Leverage state technology enhancements for districts
 - Reduce repetitive tasks

The District Perspective



A New Approach

The MA DataHub:
Real-time statewide data integration and privacy management
for SEAs and Districts



Project Goals



- Modernize state reporting
- Implement SIF to automate
- Leverage state reporting infrastructure to address district and state data management needs
- Address inconsistent use and application of standards in ed tech
- Meet individual district unique needs
- Enforce privacy requirements BEFORE sharing any data
- Clearly report out all privacy obligations and data sharing at the element level



The Journey

- 2019: Idea born at A4L Conference
- 2019: Cedar Labs, MA EOE, & Cambridge Public Schools establish partnership and shared goals
- 2020: Meetings with various edtech vendors to understand their implementation of standards
- 2020: Determine best approach and begin design
- 2021: Pilot implementation in Cambridge
- Current: Early release implementation in 8 MA districts

The Costs to States & Districts



Infrastructure



Expertise

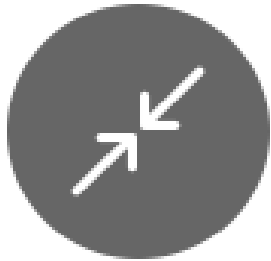


Staff Time



Security

Universal Data Integration



"MEET THEM
WHERE THEY ARE"



REDUCE RISK



ENSURE
ACCURACY



ENSURE PRIVACY



Key Concepts

- Manage *what* data and *which* students are sent to each vendor
- Transform and anonymize data
 - Connect non-compliant vendors
 - Provide de-identified data for research or to NGOs
 - Go beyond “cookie cutter” rostering
- Work in partnership with SDPC
- Integrated, one-stop experience for data integration & privacy

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Demonstration



Keebler, Newell - Grade 03

School(s) Enrolled: Dolorem Academy (02480003)

Software Systems Enrolled:



= Data Hub Connection



= DPA on file with SDPC

Brain Bits



Software System Access

What Data?

SCHOOL & DISTRICT

Local Id (School)

STUDENT INFORMATION

English Proficiency Code

First Name

Gender

Gifted Talented

Grade (Student School Enrollment1)

Last Name

Local Id (Student Personal)

School Name (Student School Enrollment1)

School State Province Id (Student School Enrollment1)

CLASS ROSTER INFORMATION

Course Code

Course Section Code

Course Title

STAFF INFORMATION

First Name

Job Function Code (Staff Assignment1)

Last Name

Local Id (Staff Personal)

School Name (Staff Assignment1)



Privacy and Security Obligations

Privacy Obligations



All Privacy Obligations

Data Security

Requirements

Assess security controls

Audit logs

Limit failed logins

Password complexity

Protect system media

Sanitize equipment

Sanitize system media

Real-World Impact

- Flexibility (not tied to SIS vendor)
- Managing transformations
 - Provides element level control over all data exchanges
- Transparency to the data flow
- Leveraging most reliable data set via SIF
- Ease of use to integrate any standards or flat files
 - While providing needed control over all data
- Privacy controls and reporting built in
 - Privacy over the wire
 - Privacy reporting

Cambridge Experience

- Benefits
 - No need to sweat the setup
 - Community-developed templates
 - Minimal time investment
 - Fits into existing data flows
- Things to keep in mind
 - Consistency between SIS and State
 - May need to supplement SIF data

Next Steps

- Early adopter implementation
- POD implementation
- Onboarding additional districts
- Continuing to adapt to MA EDU needs





THANK YOU!

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