The MA Data Hub: An SEA and LEA working together to promote student data privacy

PRESENTED BY:
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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
• 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
- Summer 2022 expansion to include additional early release 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

www.cedarlabs.com
Discussion/Questions
Demonstration
Centralized Data Interoperability
LocalId: 00009180014535234343252352  **Audit**

<table>
<thead>
<tr>
<th>LocalId</th>
<th>First Name</th>
<th>Middle Name</th>
<th>Last Name</th>
<th>Ref Id</th>
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<tbody>
<tr>
<td>07773777</td>
<td>Jon</td>
<td></td>
<td>Johnson</td>
<td>00009180014535234343252352</td>
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</tr>
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- **Record Received**
  - 12/24/2019 12:32:27 PM CST
- **Record Queued**
  - 12/24/2019 12:32:27 PM CST
- **Record Stored**
  - 12/24/2019 12:32:49 PM CST
- **Record Indexed in ODS**
  - [VIEW RECORD]
- **Change Events Sent**
  - 12/24/2019 12:32:51 PM CST

**Response** (Batch of 211) - Processed in 24 seconds
Privacy Enforcement
Global Education Privacy Standard (GEPS)

School / Department of Education
(Data Controller)

Written Contract
Clause 1
Clause 2

Contract Obligations Pool

Control Benchmark Sets

Privacy Obligation Document (POD)
Obligation 1 XML
Obligation 2 XML

Vendor (Data Processor)

NIST/ISO/IEEE "Other" standards

You pick the technical security standard

A machine-readable document for detailed obligations

The legalese from the DPA

The technical obligation from the legalese

Technical
CONFIGURED SOFTWARE SYSTEMS

Software System Access

Which Students:
- ENROLLED AT: et Academy (00779999), speriam Academy (00770015)
- IN GRADES: KG 02 05

What Data?
- STUDENT INFORMATION

Privacy and Security Obligations
- Privacy Obligations
  - Advertising Prohibition
  - Passwords and Employee Access
  - Security Coordinator

AnalyticsVue

Software System Access

Which Students:
- ENROLLED AT: repollendus Academy (00770006), explicabo Academy (00770006), assumenda Academy (00770005)
- IN GRADES: PK KG 01 02 03 04 05 06 07 08 Unknown

What Data?
- SCHOOL & DISTRICT

Cedar Labs
Manage Access

CEDARLABS / DEMO-DATAHUB / DEMOZONE

By Message Id
Validations

COLLECTIONS
Current Collection
Administration
District Progress
Downloads

Settings
DATA ADMIN
File Upload
Lookup Tables
Validation Rules

MANAGE ACCESS
Student Search
Software Systems
Manage Templates
Discussion

● How do you see Unity’s integrated interoperability and privacy platform applying to your use cases?
● What barriers might there be, to implementation?
● What would help you overcome those barriers?
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 (See POD Presentation)
  - 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
- Grow POD adoption
- Continuing to adapt to MA DESE / EOE needs
Today’s Agenda

- Safer Technology 4 Schools
  - ST4S and GESS
    - A global security framework
  - Ensuring Privacy & Security
    - Meeting district requirements
  - SDPC Resource Registry
    - Introduction to the registry
  - Registry Deeper Dive
    - Get all your registry questions answered
  - POD Exchanges
  - The Case for Unity Part 1
    - Impact on Marketplace
  - The Case for Unity Part 2
    - CEDS & Privacy
  - Unity Deeper Dive
    - Use case & the future
THANK YOU!

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