The Linking of CEDS to A4L’s Unity
A4L 2022 Privacy & Interoperability Symposium
April 27, 2022
Session Overview

• CEDS & A4L Joint History

• Current State
  – Open-Source Community
  – Key Use Cases
  – Federal Reporting

• Future Direction
  – Privacy Domain
  – Longitudinal Standard
CEDS & A4L Shared History
TIMELINE OF CEDS
FALL 2021

ELEMENTS 161 ELEMENTS 638 ELEMENTS 1,144 ELEMENTS 1,346 ELEMENTS 1,450 ELEMENTS 1,462 ELEMENTS 1,568 ELEMENTS 1,711 ELEMENTS 1,711 ELEMENTS 1,727 ELEMENTS

AREAS

RESOURCES RELEASED
Searchable website, Logical Data Models, Align

ALIGN MAPS
63 MAPS FROM 18 STATES/TERRITORIES

CONNECTIONS
230 MAPS FROM 51 STATES/TERRITORIES
254 CONNECTIONS FROM 14 STATES/TERRITORIES
274 CONNECTIONS FROM 11 STATES/TERRITORIES
274 CONNECTIONS FROM 11 STATES/TERRITORIES
283 MAPS FROM 51 STATES/TERRITORIES
519 MAPS FROM 53 STATES/TERRITORIES
519 MAPS FROM 53 STATES/TERRITORIES
679 CONNECTIONS FROM 18 STATES/TERRITORIES
421 CONNECTIONS FROM 20 STATES/TERRITORIES
609 MAPS FROM 54 STATES/TERRITORIES
659 MAPS FROM 54 STATES/TERRITORIES
659 MAPS FROM 54 STATES/TERRITORIES
505 CONNECTIONS FROM 20 STATES/TERRITORIES
530 CONNECTIONS FROM 20 STATES/TERRITORIES
530 CONNECTIONS FROM 20 STATES/TERRITORIES
838 MAPS FROM 54 STATES/TERRITORIES
894 MAPS FROM 54 STATES/TERRITORIES
838 MAPS FROM 54 STATES/TERRITORIES
1,105 CONNECTIONS FROM 20 STATES/TERRITORIES
1,105 CONNECTIONS FROM 20 STATES/TERRITORIES
1,105 CONNECTIONS FROM 20 STATES/TERRITORIES

Organizations gather to discuss developing a common education data standard.

VERSION 1
2009 SEPTEMBER
VERSION 2
2010 JANUARY
VERSION 3
2012 JANUARY
VERSION 4
2013 JANUARY
VERSION 5
2014 JANUARY
VERSION 6
2015 JULY
VERSION 7
2016 JULY
VERSION 8
2017 DECEMBER
VERSION 9
2019 OCTOBER

VERSION 2
2010 SEPTEMBER
2011 JANUARY
2012 JULY
2013 JULY
2014 January
2015 July
2016 July
2017 December
2019 October
2021 September

203 REGISTERED USERS
908 REGISTERED USERS
1,909 REGISTERED USERS
2,224 REGISTERED USERS
2,565 REGISTERED USERS
2,745 REGISTERED USERS
3,223 REGISTERED USERS
3,893 REGISTERED USERS

Elementary/Secondary Education
Postsecondary
Adult Education
Early Learning
Assessments
Career and Technical Education
Implementation Variables
Learning Resources
Competency Frameworks
Authentication and Authorization

Common Education Data Standards
ceds.ed.gov
CEDS by the Numbers

**Significant Expansion & Improvements**

- **60** new elements – Adult Education; Credentials; Early Learning; K12; Postsecondary; Workforce; Implementation Variables
- **107** updated elements
- **235** context updates in the CEDS Domain Entity Schema to support new use cases
- **256** cross-reference updates to the Domain Entity Schema
- **304** option changes involving 53 elements
CEDS by the Numbers

Solution Provider Office Hours
More than twenty staff from ten solution providers joining CEDS Solution Provider Office Hours

CEDS v10 Release
Adult Education, K12, Postsecondary, Workforce Credentials, Early Learning, Implementation Variables

Solution Providers
Cedar Labs
CPSI
Crocus
DB Driven
Double Line
eScholar
ESP Solutions
MSF&W
OtisEd
Powerschool
CEDS by the Numbers

OSC EDFacts Working Group
Twenty-four SEAs represented in the OSC’s working group on EDFacts reporting

Solution Provider Office Hours
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CEDS v10 Release
Adult Education, K12, Postsecondary, Workforce Credentials, Early Learning, Implementation Variables

ANALYSIS
55 working group members
1 standardized EDFacts Connection template developed
CEDS by the Numbers

Ks

CEDS Reach
SEA CEDS longitudinal implementations increased the impact on administrative data

OSC EDFacts Working Group
Twenty-four SEAs represented in the OSC’s working group on EDFacts reporting

Solution Provider Office Hours
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CEDS v10 Release
Adult Education, K12, Postsecondary, Workforce Credentials, Early Learning, Implementation Variables

ANALYSIS
19 State Education Agencies Implementing

Representing...
24,788 Schools
680,994 Teachers
10.5 Million Student Records
Current State

Open-Source Community
Key Use Cases
Federal Reporting
Open-Source Community (OSC)

- Open-Source Community (OSC)
  - All CEDS development occurs in the OSC
  - OSC processes require look at A4L

Rubric – Does proposed solution meet CEDS requirements?

This rubric is used to determine if the solution provided by the stakeholders meets all criteria required by CEDS.

- Element Additions or Changes
  - CEDS Naming Standards are adhered to ([https://ceds.ed.gov/pdf/naming-standards.pdf](https://ceds.ed.gov/pdf/naming-standards.pdf))
  - Source documentation related to how the addition or change was determined was provided.
  - An analysis of applicable standards that cover the category of data (e.g., A4L, Ed-Fi, PESC, IMS Global, etc.) for this addition or change was conducted and documentation was provided. The documentation contains the analysis of the other standard(s). The documentation indicates if the element exists in the other standard or if what exists conceptually aligns to the CEDS element being changed or to the new element being proposed. If there is any conceptual divergence from the other standard, that will be documented and provided to the community.
  - For any new element where an existing definition or standard has not already been created or vetted for this addition or change, at least three distinct stakeholder agencies or organizations have reviewed the addition and agree with the addition or change.
Open-Source Community (OSC)

• Open-Source Community (OSC)
• Key Use Cases
  – State Metadata
  – Longitudinal Data Warehousing
  – Federal Reporting & Generate
Future State
Privacy Domain
Longitudinal Standard
Future State

• Privacy Domain
  – PODS Integration
Future State

• Privacy Domain
  – PODS Integration
• Longitudinal Solution
  o Enabling consistent uses of consistent data – standardized data warehousing model
    ▪ Importance of differentiating SIS (transactional) with LDS (warehouse)
    ▪ Examples of states connecting to non-education data
    ▪ Ways A4L as a community can help shape future directions