CEPI Connections with MiDataHub

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Michigan Data Hub Conference

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www.michigan.gov/CEPI

Overview

1. History

2. "Deep dive"
   a) UIC Services
   b) Portable Student Records
   c) Direct Certification
   d) State Reporting (MSDS)

Goal: take away one new thing

History

- 2017:
  - o Data Integration Specialist position created at CEPI - liaison between CEPI and MiDataHub
- 2018:
  - o UIC services implemented:
    - January: MiSTAR-Q
    - June: Skyward
    - August: Powerschool
  - o EEM Integration completed
- 2019:
  - o UIC services implemented by Infinite Campus
  - o "Enhanced" UIC services released
  - o Student Snack-Pack v1 released (November)
    - Implemented by MiSTAR-Q

History (continued)

- 2020:
  - Snack-Pack implemented: Powerschool, Skyward
- 2021:
  - Snack-Pack implemented: Infinite Campus, Synergy
  - Snack-Pack v2 released – implemented with MiSTAR-Q
  - Direct Cert integration released – implemented with MiSTAR-Q
  - First MSDS collection submitted via MiDH cockpit (Skyward Qmlativ)
- 2022:
  - Snack-Pack v2 implemented by remaining SIS vendors
- 2023:
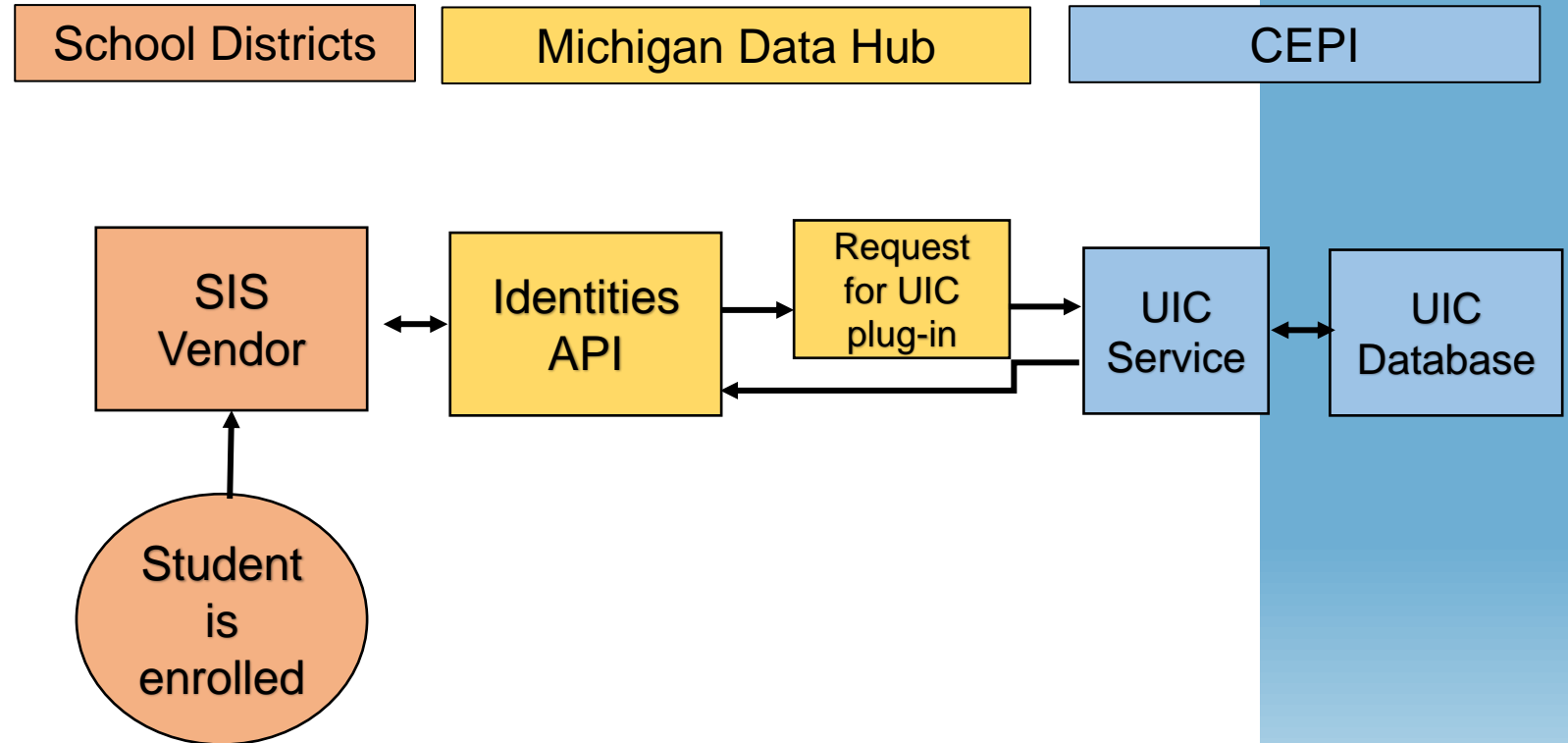 - UIC Services implemented by Synergy

UIC Services

- ## What is it?
  - Search/create UICs from your local SIS
  - No need to log in to MSDS

- ## What are the benefits?
  - UIC retrieved/created as early as student enrollment
  - Process takes seconds (instead of minutes if done in MSDS)

UIC Services

How does it work?

1. SIS sends student core data and whether or not to auto-create a UIC if none found (permission-based)

2. Identity API formats the request and sends to plug-in

3. Request for UIC plug-in calls the appropriate service to send to CEPI

4. CEPI UIC Service – returns an exact match, potential matches, or a new UIC (if auto-create parameter exists)

5. Identities API returns the results to the SIS

School Districts | Michigan Data Hub | CEPI

SIS Vendor ↔ Identities API → Request for UIC plug-in → UIC Service ↔ UIC Database

Student is enrolled

UIC Services

- Available functionality
  - Individual search requests
  - Bulk search requests
  - Resolve potential matches
    - Extended collection information
      (R/E, Grade, Enroll/Exit Date, Exit Status, Address, District)
    - Send requests for new UICs (reviewed by CEPI)
  - UIC Linking requests
  - Fields added to Identities API since initial release
    - Local Student ID
    - Match Status (Match Found, New UIC, Requires Resolution, etc)

UIC Services

School Year	# Districts	# Searches	# New UICs
2024-25 (to date)	590	160,000	39,000
2023-24	612	298,318	72,213
2022-23	541	306,128	72,643

- # Districts on "connected" SISs: 757
- Gap: 145

UIC Services

UIC Resolution Monitor

Student	Grade	Track	Status
Craig, Janell	9	T 00710 2022/23	RequiresNewUICNotAllowedWithThisToken
Smith, Astrid M	9	T 00710 2022/23	RequiresResolution
Smith, Nevaeh L	K	T 07331 2022/23	Pending
testy, test	9	T 00710 2022/23	RequiresResolution

Single UIC Match Found.

OK

UIC Generated.

OK

| Setup | UIC Search | **UIC Resolution** | UIC Linking | Descriptor Mapping |

Advisor: All
Program: All
Track: All

Reset Search

Status	Score	Ident	UIC	Last Name	First Name	Middle Name	Suffix	Gender	Birth Date	Birth Order	More Info	
Match found	91.89	20039668						F	7/11/2016	0	...	Accept
												Reject

Race/Ethnicity: White   Grade or Setting: 00
Enrollment Date: 8/25/2021   Address: 7611 ___ MI 48323
Exit Date: Exit Status: 19
Submitting Entity: 63290

Ident	Last Name	First Name	Middle Name	School	Gender	BirthDate	Request UIC with Justification	
20039558				02899	M	3/24/2011	New UIC Needed	Request

Portable Student Records

What problem are we trying to solve?

- Students are highly mobile*
  - Statewide mobility rate in 2023-24: 6% (82,000 students)
- Information from previous district isn't timely
  - 30- to 60-day delay on average
  - Parents may not know what services the student had
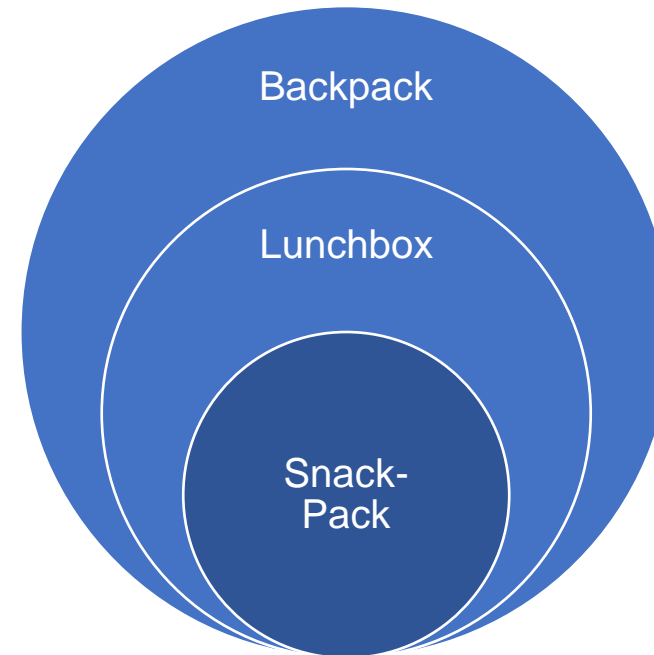 - MSDS has limitations

Portable Student Records

To summarize…

Many students do not receive services they are entitled to, in a timely manner

Portable Student Records

The solution!
- Snack-Pack
- Lunchbox
- Backpack

In partnership with the Michigan Data Hub

Student Snack-Pack

Contains critical information necessary at the time of student enrollment. Examples:

Backpack

Lunchbox

Snack-Pack

- Services that must legally start within a specific timeframe (30 days for IEPs)
- Special Education
- English Learners
- Homeless
- Foster Care
- Program Eligibility/Participation

Student Snack-Pack

Version 1 (implemented November 2019)	Version 2 (implemented October 2021)
As of Date	District Exit Date
Attendance (Days Attended / Total Possible)	Early Childhood Program*
CEP School	EL Exit Date (District)
District Exit Status (Entry Type / Exit Withdrawal Type)	EL Exit Date (State)
Economically Disadvantaged	EL Home Language
EL Instructional Program	EL Primary Language
English Learner Eligible	End of Term Status*
Foster Care Eligible	General Ed FTE
Grade	Previous School District (Name)
Homeless Eligible	Reading Deficiency Identified
Migrant Eligible	Special Ed Exit Date
Previous School District (Code)	Special Ed Section 52 FTE
Program Participations	Special Ed Section 53 FTE
Special Ed IEP/Plan Date	Total Days Removed (Discipline)
Special Ed Primary Disability	
Special Ed Program Service	

Student Snack-Pack

1. A district "opts-in" to Snack-Pack in the MiDataHub cockpit

2. An enrolling district obtains a student's UIC via the Identities API.

3. The district can then request the Snack-Pack via MiDataHub.

4. The Snack-Pack is returned to the district via MiDataHub.

School Districts

Michigan Data Hub

CEPI

SIS Vendor

Identities API

UIC Service

UIC Database

Student is enrolled

Opt-In

District Ed-Fi ODS

S-P Service

Student History
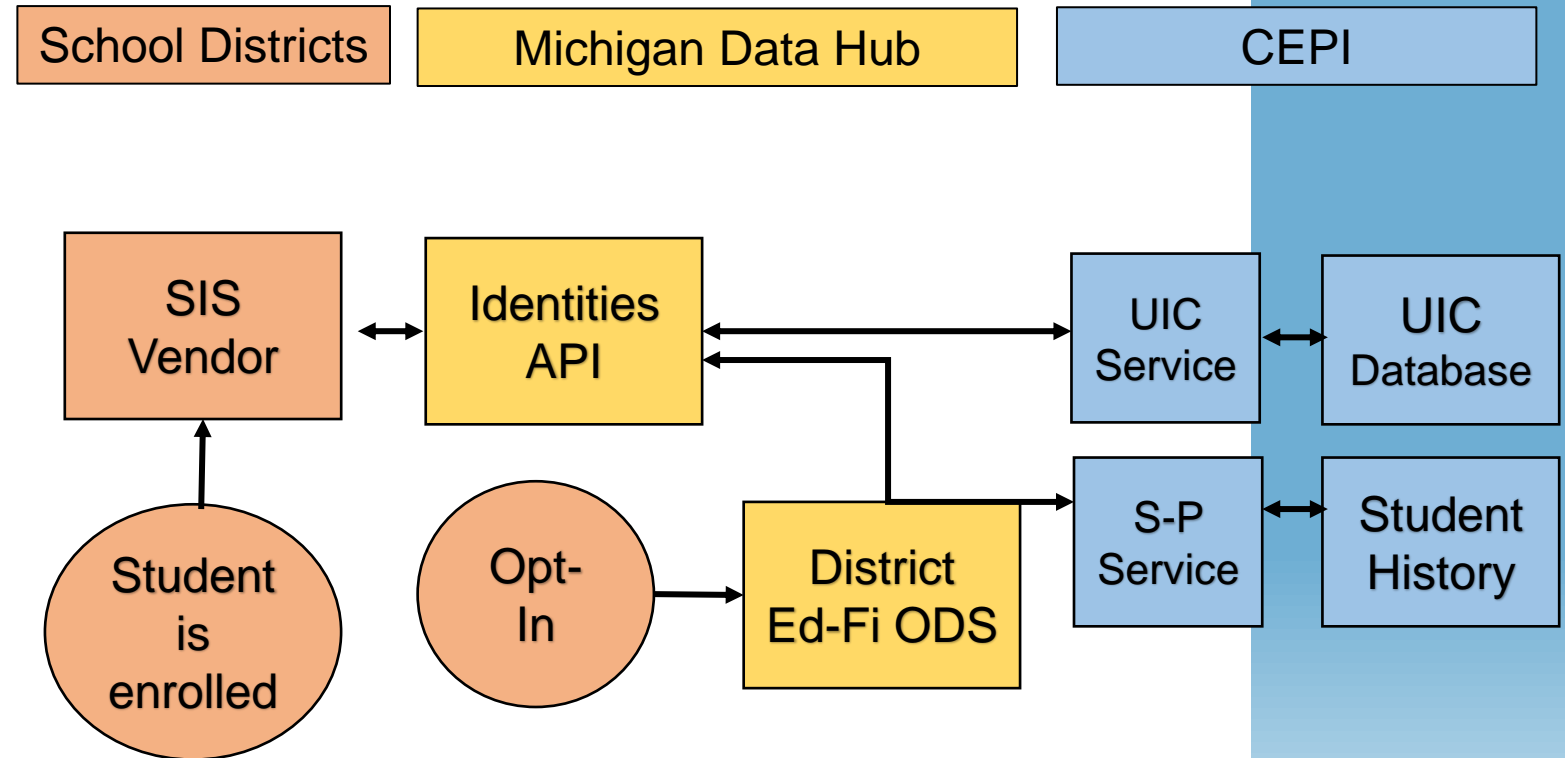
Student Snack-Pack

- Implemented: November 2019
- Works with all 5 "connected" SISs in Michigan:
- Usage:
  - 671 of 887 districts opted in (75%)
  - Additional 86 districts able to opt in (up to 85%)
  - ISDs with more than 5 districts not opted in:

District	#
Wayne RESA	11
Newaygo RESA	7
Delta-Schoolcraft ISD	6
Hillsdale ISD	6
St. Clair Co RESA	6
Menominee ISD	5
Sanilac ISD	5

Student Snack-Pack

Implementation Considerations

- Automatic retrieval of Snack-Pack upon UIC match (enrollment into SIS)
- On-screen display
- Store data for future retrieval
- Permissions
- Notifications
  - Application alerts, Email, Text
- Additional automation
  - Example: ED/CEP and Food Service system
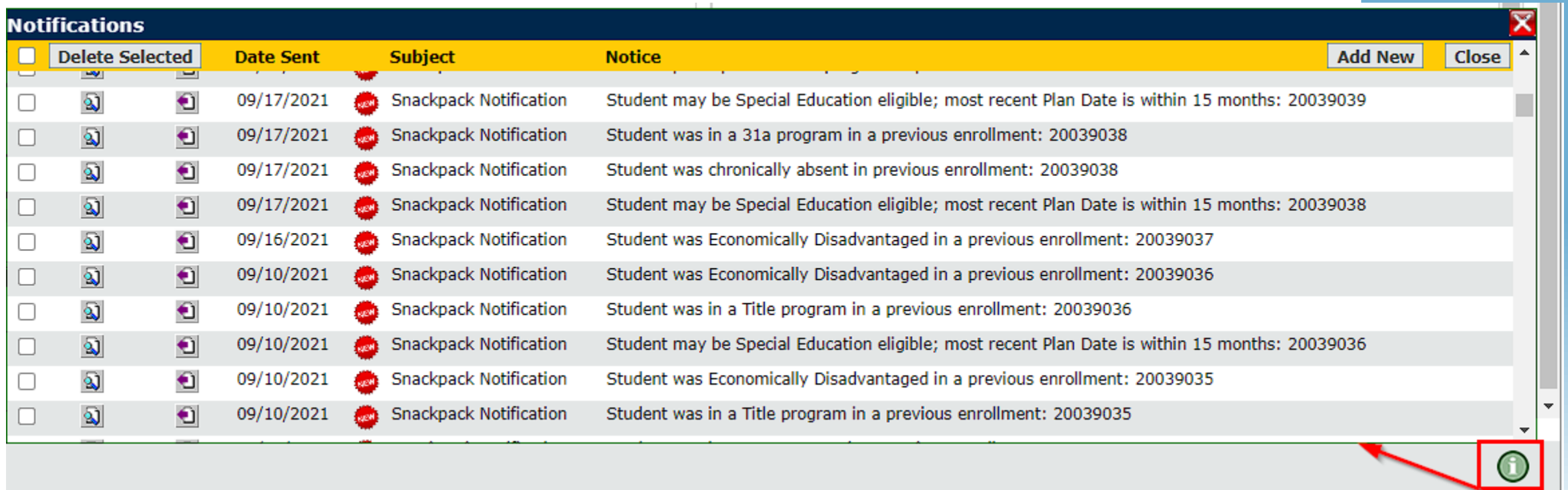
Student Snack-Pack: Implementation Example

Attribute	Value
MIDATAHub - Snackpack	
Snackpack Updated: Jul 27 2022 3:23PM	
Student Snackpack	
Attribute	**Value**
Last MSDS As Of Date	06/30/2022
UIC	
Previous District or PSA	David Ellis Academy (82947)
Previous School or PSA	David Ellis Academy
Grade Level	Seventh Grade (07)
FTE General Education	1.00
FTE Special Education	
FTE Section 53	
Entry Reason	Expected to continue in the same school district
Exit Reason	
Exit Date	
Total Days Attended/Possible	161/180
Total Days Removed	
Previous School In CEP	true
Economically Disadvantaged	false
SpecEd Plan Date	
SpecEd Exit Date	
SpecEd Primary Disability	
SpecEd Program Svc	
Home Languages	
Primary Language	
LEP Instructional Program	
LEP Eligible	false
LEP End Date	
LEP End Date - State Auto Exit	
Program Participation	Section 31a At Risk
Section 35a Reading Deficiency	false
Section 35a Term-End Status	
Early Childhood Programs	
Foster Care	false
Homeless	false
Migrant	false

Student Snack-Pack: Implementation Example

Notifications
   o In-System Notifications, Email and Text Message

Student Snack-Pack: Implementation Example

Automated Processing
- o Student was in previous district as CEP
- o 10-day meal program account created

Students	Staff	Patrons	Cash transactions	Account Reconciliation

Student Name	Local ID	State ID	Gender	Birth Date	Grade	Track	Status	Advisor	Entry	Exit	Age	Programs	ReEnroll Status
████ █ ████	████████	████████ ████	█████	████████	7	T 00711	A	Unassigned	8/25/2023		13	🗔	Not Started

« ‹ Find › » Student 3 of 1791 Include Both ⊙

Eligibility	Transactions	Account Settings	Documents

Add Edit Delete ○ Show Status Records ● Show Eligibility History

List Options ▼ All records, Ascending Reconcile Report

Effective	Expires	Eligible	Source	Description	Note	Adj.	Vfy.	Chg by	Chg date
08/25/2023	08/30/2023	Free	Offline	Temporary 10 day record due to previous enrollment was CEP.	📝			SNACK	08/25/2023
08/31/2023	09/21/2023	Free	2409 (Original Application)	Approved				████	08/30/2023
09/22/2023	06/30/2024	Free	SNAP	Direct Cert Import	📝			████	09/29/2023

Student Snack-Pack: Implementation Example

Automated Processing

- Several snack pack attributes are used to create records in campus tech center databases
- Ensure sending school data provided to students are known by CTE Staff.
- Automated fetch after each count submission to ensure snack pack is up to date for campus technical teachers with home school services

Student Snack-Pack: Implementation Example

Automated Processing
- o Based on Snack Pack Exit Code and Exit Date from previous district, expelled messaging displayed if enrollment is attempted
- o Does not disallow enrollment, provides notification only

Student expelled from last district within 180 days

OK

Portable Student Records – Lunchbox (TBD)

Combines the Snack-Pack data with a bit more longitudinal data such as a history of student demographics:

- Special Education
- English Learners
- Homelessness
- Foster Care
- Grade Retention
- Assessment Results

Backpack

Lunchbox

Snack-Pack

Portable Student Records – Lunchbox (TBD)
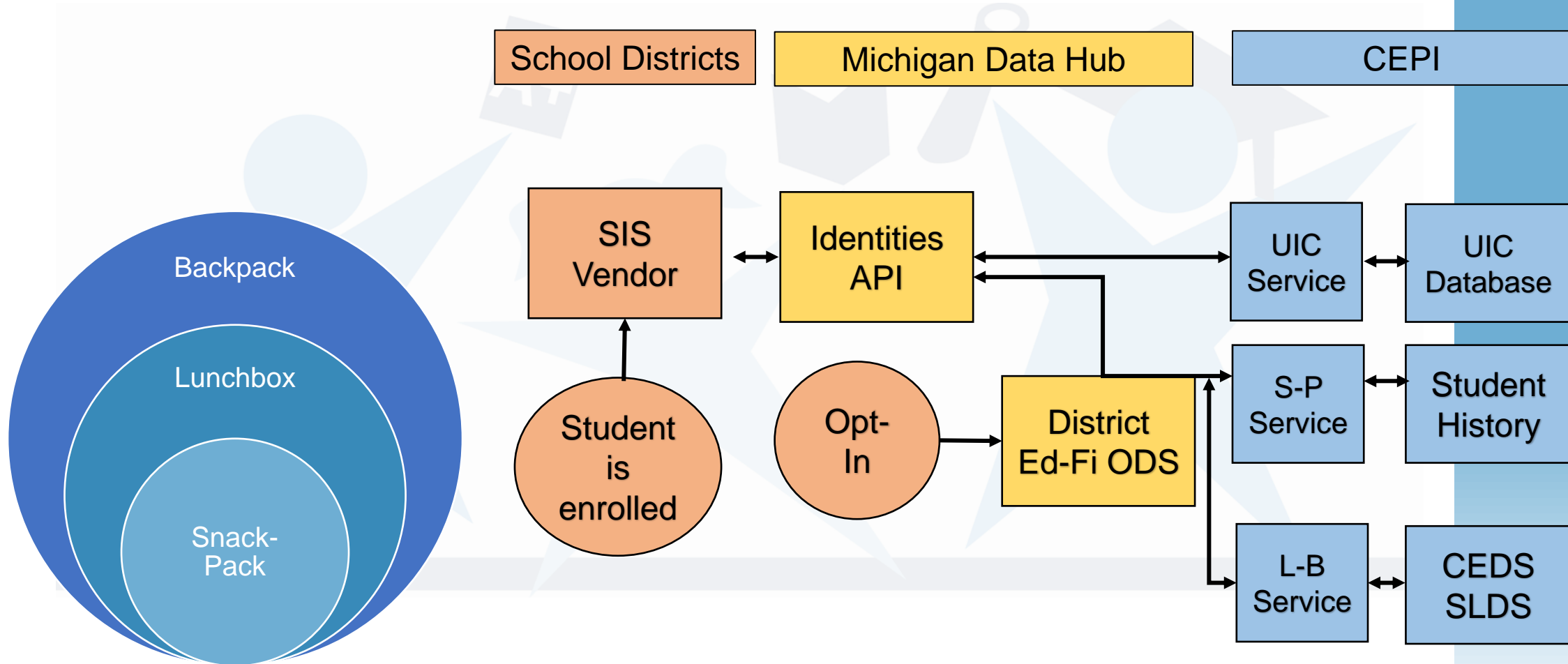
Portable Student Records – Backpack (TBD)

Combines the Snack-Pack and Lunchbox data into a complete, electronic student data record.

- Local District data not collected by CEPI / MDE
  - Transcript data
  - Local Assessments
  - Academic Intervention Plans
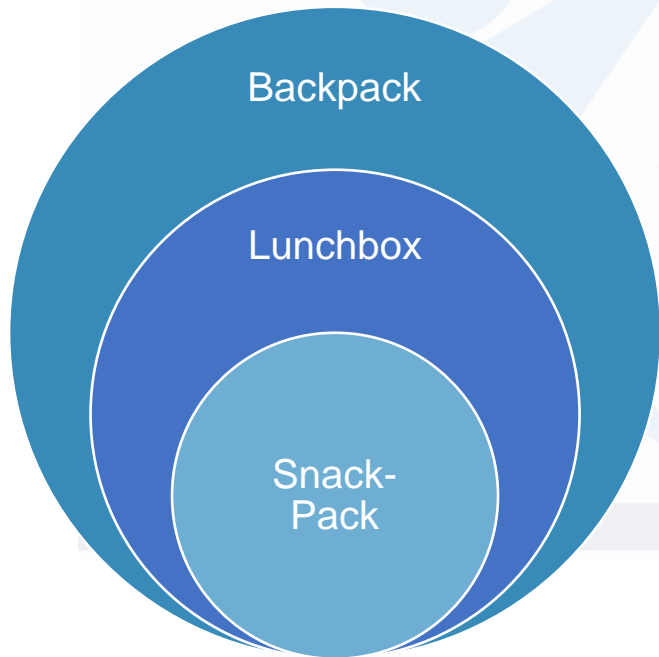
Portable Student Records – Backpack (TBD)
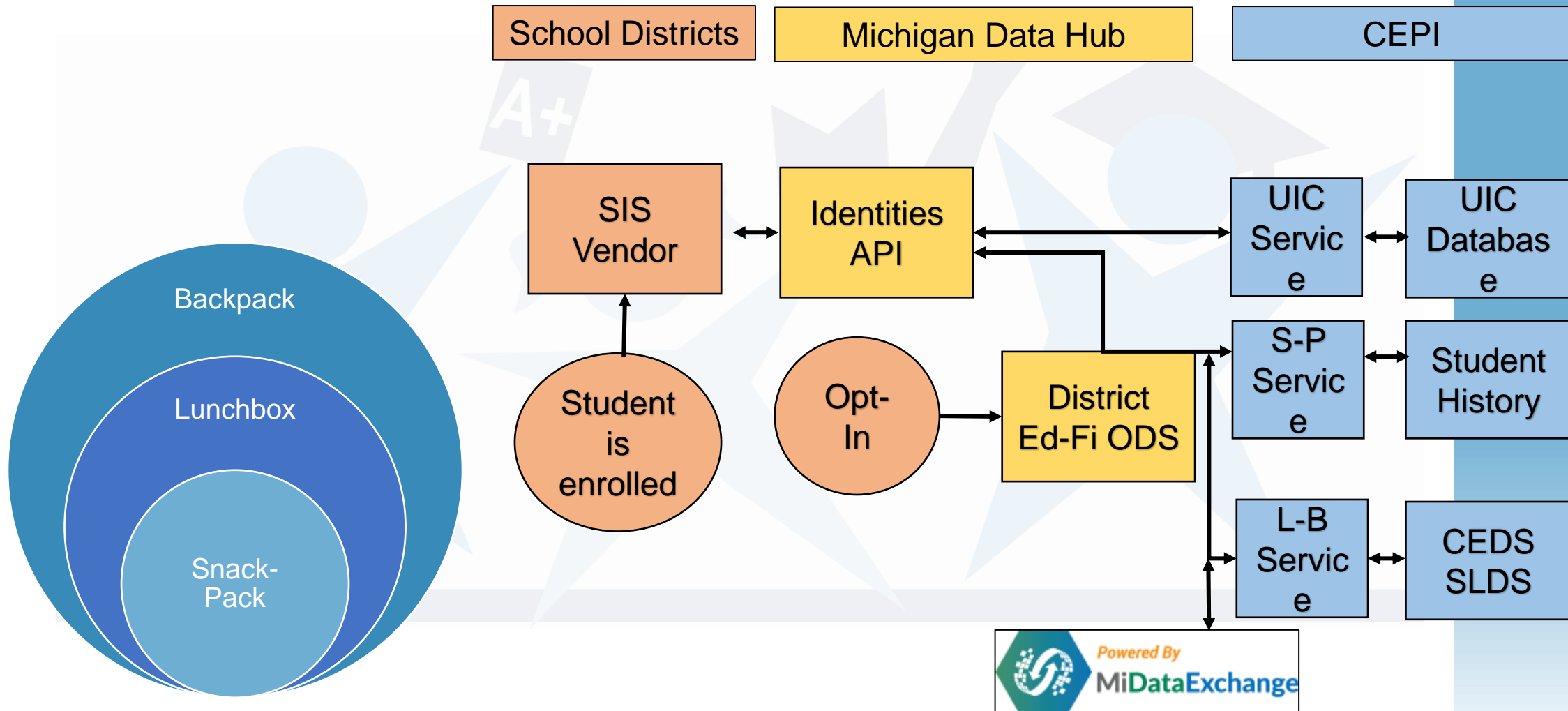
Direct Certification Integration

- What is it?
  - Search direct certification status from your local SIS
    - One or more students
  - Get direct certification status for all students in the district
    - i.e. fetch the most recent direct certification report
  - All activity occurs in SIS or Food Service System

- What are the benefits?
  - Get a student's DC status as early as student enrollment
  - Individual lookup takes seconds (instead of minutes if done in MSDS)
  - District lookup takes a couple minutes (compared to hours)
  - No manual exporting/importing

Direct Certification Integration

- What fields are included?
  - UIC
  - School Facility Number
  - Local Student ID
  - Direct Cert Eligibility Category
  - Exit Date (if applicable)
  - Eligibility Date

Direct Certification Integration

How does it work?
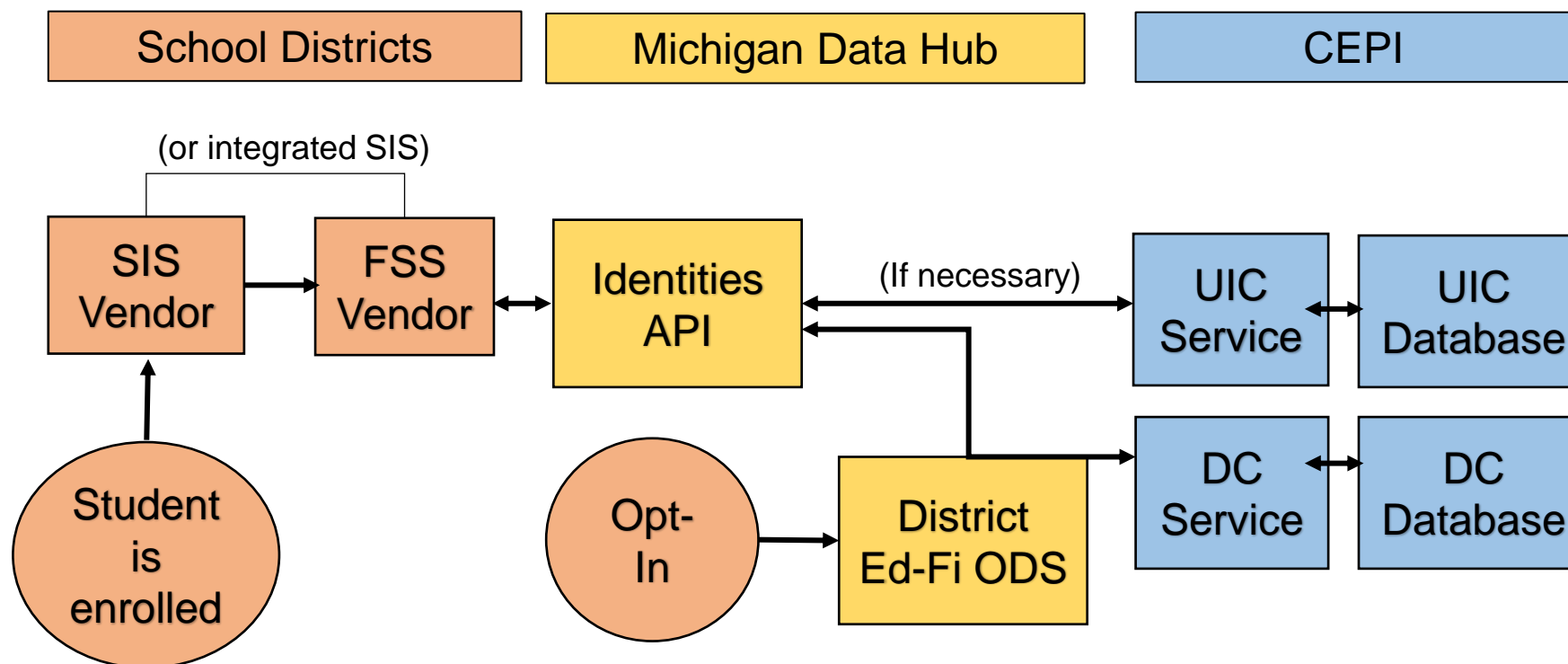
Current Status
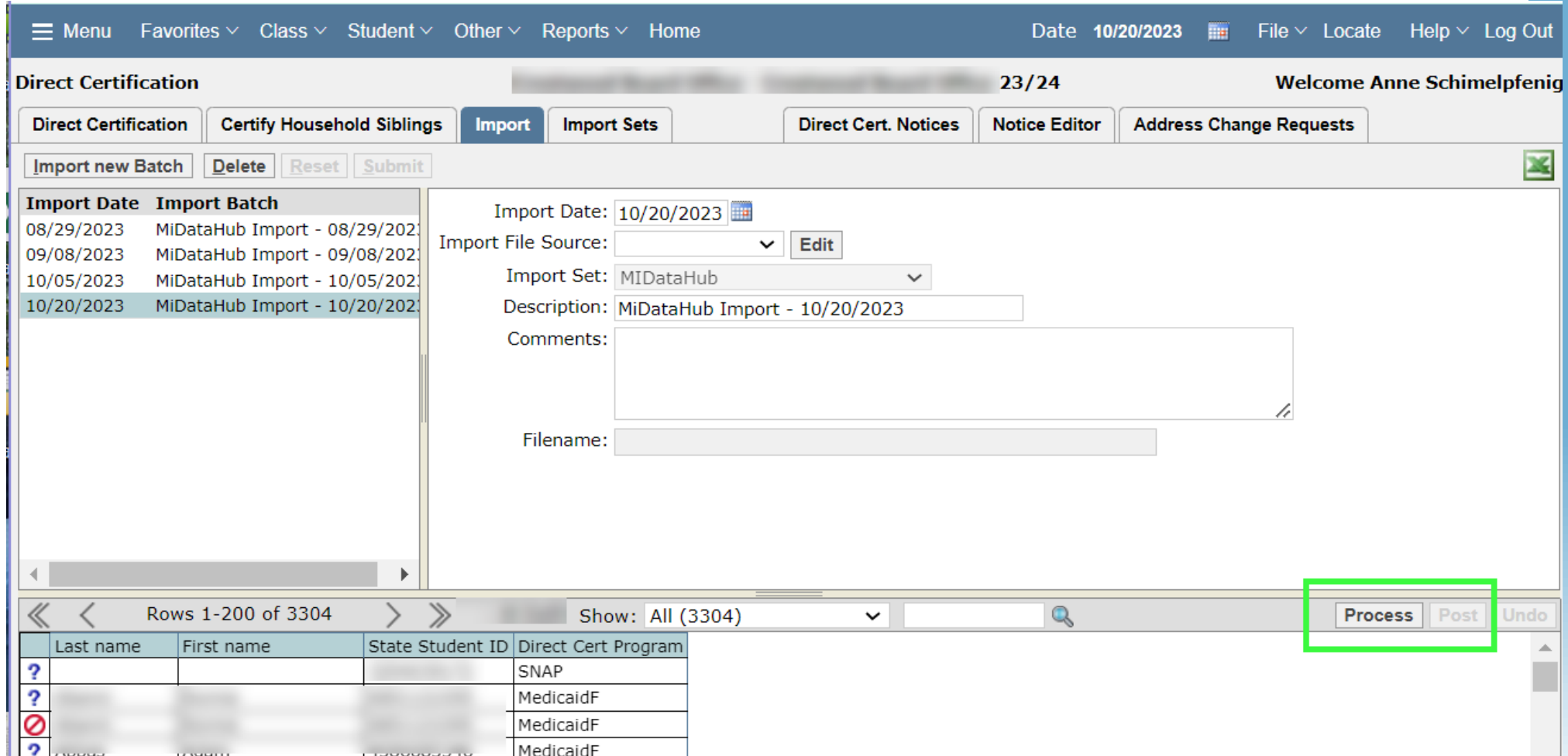
- Implemented: May 2021
- Vendor status:
  - MISTAR – automated download/import
  - Skyward – report only
  - Infinite Campus – considering implementing
  - Meal Magic – help!
  - Template letter:
    - https://www.midatahub.org/downloads/data_integration/food_service _systems_template_for_districts.pdf

Implementation Considerations

- Automatic retrieval of DC status upon UIC match (enrollment into SIS) through connection to MI Data Hub
- Permissions
- Notifications
  - Application alerts, Email, Text
- Automate your direct cert import process
  - i.e. get the data right from MiDataHub instead of an import file

Example Implementation

Automated Fetch

Example Implementation

Manual Import

Individual Lookup

State Reporting (MSDS)

- ## What is it?
  - o Submit MSDS data from MiDH cockpit instead of local SIS
  - o MiDH cockpit contains tools needed for error-checking and verifying data accuracy

- ## What are the benefits?
  - o Error-checking / verification can be done up front, instead of after uploading to MSDS
  - o Alerts can be set up to notify you of errors / warnings
  - o Reduction in file uploads to MSDS

State Reporting (MSDS)

- Available functionality
  - Alerts
  - Error-check
    - Includes 50+ CEPI Data Quality checks
  - System reports
    - Many are similar to CEPI staging reports
  - Collection Comparison tool
    - Helpful for onboarding and troubleshooting
  - Collection Extractor
    - Export and upload to MSDS
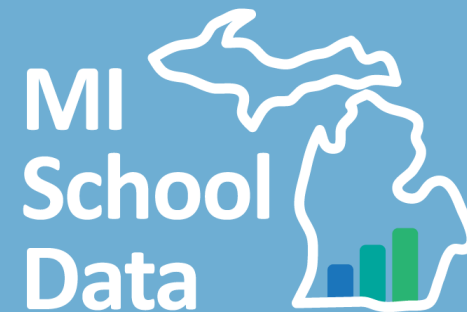
State Reporting (MSDS)

- 2024-25:
  - o Skyward Qmlativ: 18 live districts
  - o Other SIS vendors: multiple districts piloting
  - o Weekly meetings
  - o Basecamp group

Questions?

- *Joel Thiele, ThieleJ@michigan.gov*
- *CEPI Customer Support, CEPI@michigan.gov*

Thank you

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