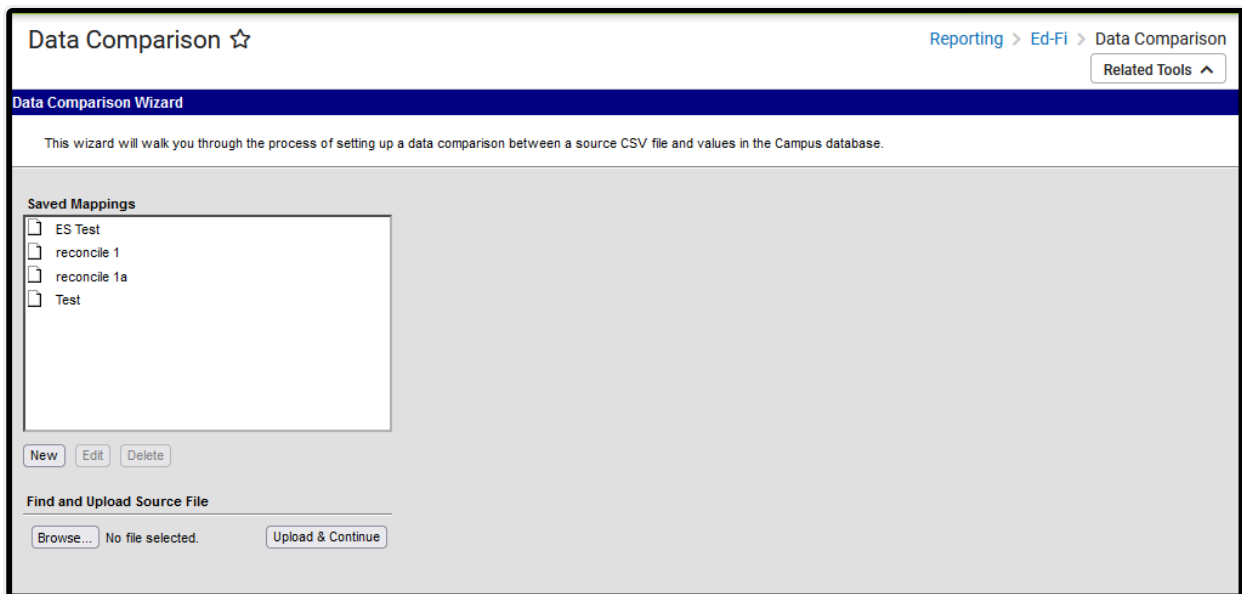


Data Comparison

Last Modified on 05/06/2025 9:25 am CDT

Tool Search: Data Comparison

The Ed-Fi Data Comparison (Reconciliation) tool compares state Ed-Fi data against data existing within the Campus database. Users can identify errors and gaps in data existing at the state and Campus level and correct this data to improve data quality and ensure proper state reporting and funding.



The screenshot shows the 'Data Comparison Wizard' interface. At the top, there's a breadcrumb trail: 'Reporting > Ed-Fi > Data Comparison'. Below this is a 'Data Comparison Wizard' header. A message states: 'This wizard will walk you through the process of setting up a data comparison between a source CSV file and values in the Campus database.' The main area is titled 'Saved Mappings' and contains a list of mappings: 'ES Test', 'reconcile 1', 'reconcile 1a', and 'Test'. Below the list are 'New', 'Edit', and 'Delete' buttons. At the bottom, there's a section 'Find and Upload Source File' with a 'Browse...' button, the text 'No file selected.', and an 'Upload & Continue' button.

Ed-Fi Data Comparison Tool

Read - Access, import and upload files for data comparison.

Write - Provides no function for this tool

Add - Provides no function for this tool

Delete - Provides no function for this tool

For more information about Tool Rights and how they function, see the [Tool Rights](#) article.

Prerequisites

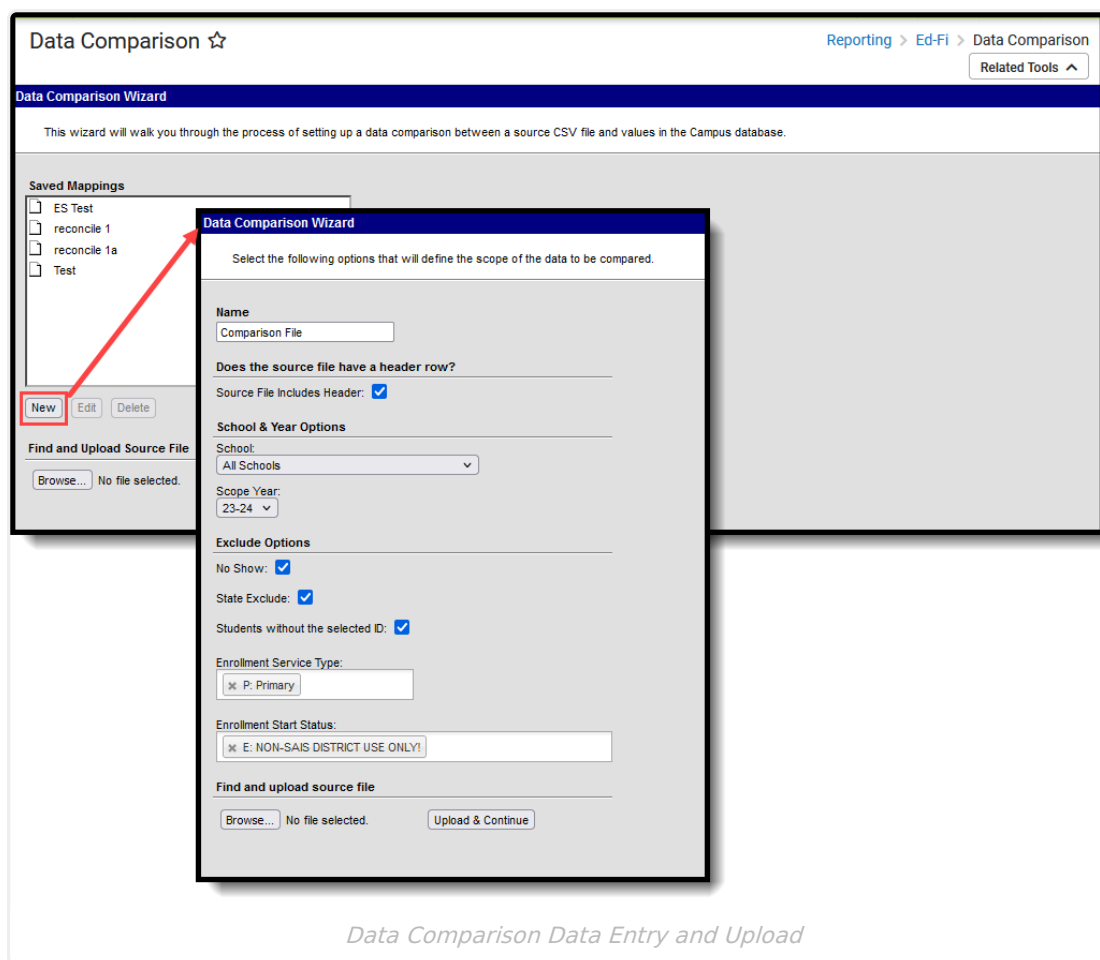
- Ed-Fi functionality must be enabled via [Enable Ed-Fi System Preference](#).
- Proper values must be established within the [Ed-Fi Config tool](#). This ensures Campus is communicating with Ed-Fi and successfully sending data to their servers.
- Ed-Fi IDs need to be assigned to users via the [Demographics](#) tool.

Reconcile Data Between the State and Campus

The first step in reconciling data between data provided by the state and information within Campus is to create a mapping. This mapping indicates how to align each column of data in the state file with its respective Campus field and data. Once mappings are created, users can continue to reuse them as newer state files come in (with the assumption data locations in the state file continue to match the selected mapping), making for quick and easy comparison of data without the need for tool or data setup.

Create a New Mapping

1. Click the **New** icon.
2. Give the mapping a **Name**.
3. When the source file from the state contains a header row, mark the **Source File Includes Header** checkbox.
4. Select the **School** to compare the data to against the source file. All Schools in the districts can also be done at one time.
5. Select the **Scope Year** of the data being compared.
6. Review the following Exclude Options to determine which items are NOT included in the comparison:
 - **No Show** excludes enrollment records that are marked as No Show.
 - **State Exclude** excludes enrollment records that are marked as State Exclude.
 - **Students without the Selected ID** excludes students who do not have the appropriate ID assigned.
 - **Enrollment Service Types** excludes the selected service type from data comparison.
 - **Enrollment Start Status** excludes enrollment records with that selected value from data comparison.
7. Click **Browse**. Follow the instructions on your computer screen to locate the correct file.
8. Click the **Upload & Continue** button.



Data Comparison ☆

Reporting > Ed-Fi > Data Comparison

Related Tools ^

Data Comparison Wizard

This wizard will walk you through the process of setting up a data comparison between a source CSV file and values in the Campus database.

Saved Mappings

- ES Test
- reconcile 1
- reconcile 1a
- Test

New Edit Delete

Find and Upload Source File

Browse... No file selected.

Data Comparison Wizard

Select the following options that will define the scope of the data to be compared.

Name

Comparison File

Does the source file have a header row?

Source File Includes Header: ☒

School & Year Options

School: All Schools

Scope Year: 23-24

Exclude Options

No Show: ☒

State Exclude: ☒

Students without the selected ID: ☒

Enrollment Service Type:

☒ P: Primary

Enrollment Start Status:

☒ E: NON-SAIS DISTRICT USE ONLY!

Find and upload source file

Browse... No file selected. Upload & Continue

Data Comparison Data Entry and Upload

Once the file has been uploaded, each column in the source file needs to be mapped to the corresponding fields in Campus for accurate comparisons.

1. Click the **New** icon. The **Name**, **Sequence in data file**, and **Map to data field** fields are displayed below.
2. Enter the **Name** of the data being compared. This value can be any name to assist in the identification of the compared data. It is not tied to any other record. In the image below, the Grade column (3) is being mapped to the Enrollment Grade Field, so the entered name is Grade.
3. Enter the **Sequence in data file** number. This is the column number listed above the column in the Source File Data area, which corresponds to the data that is mapped to a Campus field. In the image below, a Sequence of 3 is entered to compare the Grade column data with the Enrollment Grade field selected. This step ensures the right data is compared between the state data file and Campus. Failure to enter proper sequence numbers results in data comparison errors.
4. Select what Campus field to map to the data file column by selecting a value in the **Map to data field**. When mapping to a date field, a date format must be selected to ensure accurate report results.
5. Click the **Save** icon. The mapping displays in the window below.
6. Repeat steps 1-4 until all desired data has been mapped.

Data Comparison Wizard

Define the columns in the source file that will be used to compare to the Campus database, all other columns in the uploaded document can be ignored. One column must be defined to match to the student's Ed-Fi ID. The left frame contains mappings for the data that you have selected to compare, and the right frame contains a representation of the source data file.

Name: Nate Test Comparison Source File: C:\CampusDocumentStore\ieBatchAppShare\batchQueue\ieaz\1\2017-09-07-13-26-40\Stud10Sample.csv Format: Comma Separated Values Column Count: 22 Row Count: 55103

Save X Delete New

Name	Seq	Field Name

Source File Data:

1	2	3	4
SchoolCTDS	SchoolName	Grade	District Student ID
07-02-80-104	Willis Junior High School (5110)	1	2447
07-02-80-104	Willis Junior High School (5110)	1	2447
07-02-80-104	Willis Junior High School (5110)	1	3854
07-02-80-104	Willis Junior High School (5110)	1	7538
07-02-80-104	Willis Junior High School (5110)	1	7944
07-02-80-104	Willis Junior High School (5110)	1	2975
07-02-80-104	Willis Junior High School (5110)	1	82544896
07-02-80-105	Willis Junior High School (5110)	1	73763488
07-02-80-106	Willis Junior High School (5110)	1	73763488

Name: Grade

Seq in data file: 3

Map to data field: Enrollment Grade

Compare Data Batch Queue - Compare Data

Mapping Source File Data to Campus Fields

A mapping of at least one, and only one ID field must be included in order to generate the Data Comparison report.

Arizona Users: There are five additional fields added to the bottom of this list. Separate mappings must be done for each of these fields, and they cannot be combined with any other fields except student identifiers. Adding additional mappings that are not student identifiers results in false results. When doing an enrollment FTE comparison for students with split enrollments, use these additional fields to parse out or differentiate split enrollments.

When all mappings created and saved, click the **Compare Data** button to initiate generation of the comparison file or click the **Batch Queue - Compare Data** button to send the file to the batch queue where it processes in the background.

When an error occurs in the mappings or additional or modified mappings are made, click the **Back to Edit** button at the bottom of the screen.

Data Comparison Wizard

Define the columns in the source file that will be used to compare to the Campus database, all other columns in the uploaded document can be ignored. One column must be defined to match to the student's Ed-Fi ID. The left frame contains mappings for the data that you have selected to compare, and the right frame contains a representation of the source data file.

Name: Nate Test Comparison Source File: C:\CampusDocumentStore\ieBatchAppShare\batchQueue\ieaz\1\2017-09-07-13-26-40\Stud10Sample.csv Format: Comma Separated Values Column Count: 22 Row Count: 55103

Name	Seq	Field Name
School CTDS	1	School CTDS
Grade	3	Enrollment Grade
Ed-Fi ID	5	Ed-Fi ID
Start Date	15	Enrollment Start Date

Source File Data:

1	2	3	4
SchoolCTDS	SchoolName	Grade	District Student ID
07-02-80-104	Willis Junior High School (5110)	1	24474795
07-02-80-104	Willis Junior High School (5110)	1	24474795
07-02-80-104	Willis Junior High School (5110)	1	38547327
07-02-80-104	Willis Junior High School (5110)	1	75385368
07-02-80-104	Willis Junior High School (5110)	1	79447325
07-02-80-104	Willis Junior High School (5110)	1	29753827
07-02-80-104	Willis Junior High School (5110)	1	82544896
07-02-80-105	Willis Junior High School (5110)	1	73763488
07-02-80-106	Willis Junior High School (5110)	1	73763488

Initiate Data Comparison

Once the file finishes processing, it downloads to the local hard drive or network as a CSV file. Review the document to understand the differences in data between what is entered in Campus and what exists at the State.

24369015	278576	James	Tester	Ed-Fi ID	24369015		This Student was not found in Ed-Fi
24512930	13122	Kristalin	Tester	Ed-Fi ID	24512930		This Student was not found in Ed-Fi
24512992	258460	Isaac	Tester	Ed-Fi ID	24512992		This Student was not found in Ed-Fi
24521956	18113	Arshia	Tester	Ed-Fi ID	24521956		This Student was not found in Ed-Fi
24523318	39954	Tyler	Tester	Ed-Fi ID	24523318		This Student was not found in Ed-Fi
24527231	281161	Brooklyn	Tester	Ed-Fi ID	24527231		This Student was not found in Ed-Fi
24528481	318334	Bryson	Tester	Ed-Fi ID	24528481		This Student was not found in Ed-Fi
24529105	52226	Azyah	Tester	Ed-Fi ID	24529105		This Student was not found in Ed-Fi
24531894	46161	Skylar	Tester	Ed-Fi ID	24531894		This Student was not found in Ed-Fi
24532051	323072	Lami	Tester	Ed-Fi ID	24532051		This Student was not found in Ed-Fi
24536158	235016	Amanda	Tester	Ed-Fi ID	24536158		This Student was not found in Ed-Fi

Example of a Comparison Report

Review Data Using an Existing Mapping

1. Select the mapping from the **Saved Mappings** window.
2. Upload the new state file by clicking the **Choose File** button. Follow the instructions for locating the file, then choose Open.
3. Click the **Upload & Complete** button. The Mapping screen displays.

Data Comparison Wizard

This wizard will walk you through the process of setting up a data comparison between a source CSV file and values in the Campus database.

Saved Mappings

- ☐ AS
- ☐ EJ - Test
- ☐ LS - All Mapping
- ☐ LS - End Status
- ☐ LS - FTE
- ☐ LS - Grade
- ☐ LS - Res District
- ☐ LS - Tuition
- ☒ **Nate Test Comparison**

New Edit Delete

Find and Upload Source File

Choose File Stud10Sample.csv Upload & Continue

Compare Data Using an Existing Mapping

Review the existing mappings and, when data properly matches between the sequence and field name, click the **Compare Data** or **Batch Queue - Compare Data** fields.

Data Comparison Wizard

Define the columns in the source file that will be used to compare to the Campus database. All other columns in the uploaded document can be ignored. One column must be defined to match to the student's Ed-Fi ID. The left frame contains mappings for the data that you have selected to compare, and the right frame contains a representation of the source data file.

Name	Source File	Format	Column Count	Row Count
Nate Test Comparison	C:\CampusDocumentStore\ieBatchAppShare\batchQueue\ieaz\1\2017-09-07-15-03-30\Stud10Sample.csv	Comma Separated Values	22	55103

☐ New

Name	Seq	Field Name
School CTDS	1	School CTDS
Grade	3	Enrollment Grade
Ed-Fi ID	5	Ed-Fi ID
Start Date	15	Enrollment Start Date

Source File Data:

1	2	3	4
SchoolCTDS	SchoolName	Grade	District Student ID
07-02-80-104	Willis Junior High School (5110)	1	2447
07-02-80-104	Willis Junior High School (5110)	1	2447
07-02-80-104	Willis Junior High School (5110)	1	3854
07-02-80-104	Willis Junior High School (5110)	1	7538
07-02-80-104	Willis Junior High School (5110)	1	7944
07-02-80-104	Willis Junior High School (5110)	1	2975
07-02-80-104	Willis Junior High School (5110)	1	8254
07-02-80-105	Willis Junior High School (5110)	1	7376
07-02-80-106	Willis Junior High School (5110)	1	7376

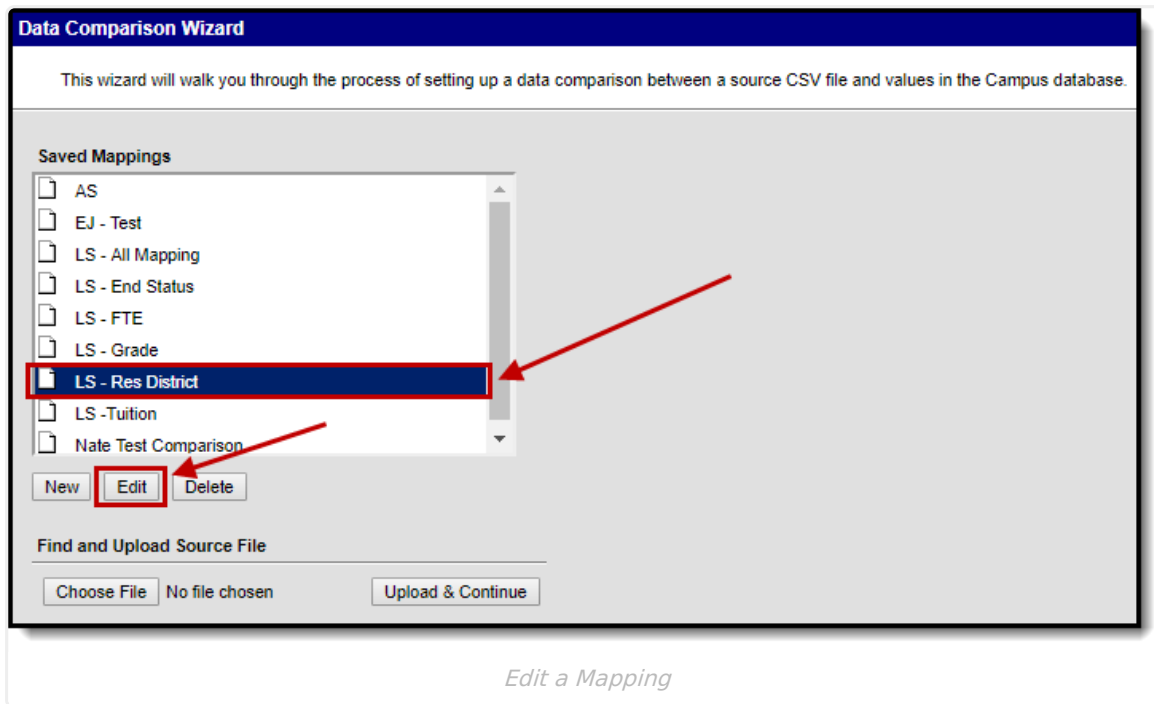
Compare Data Batch Queue - Compare Data

Back to Edit

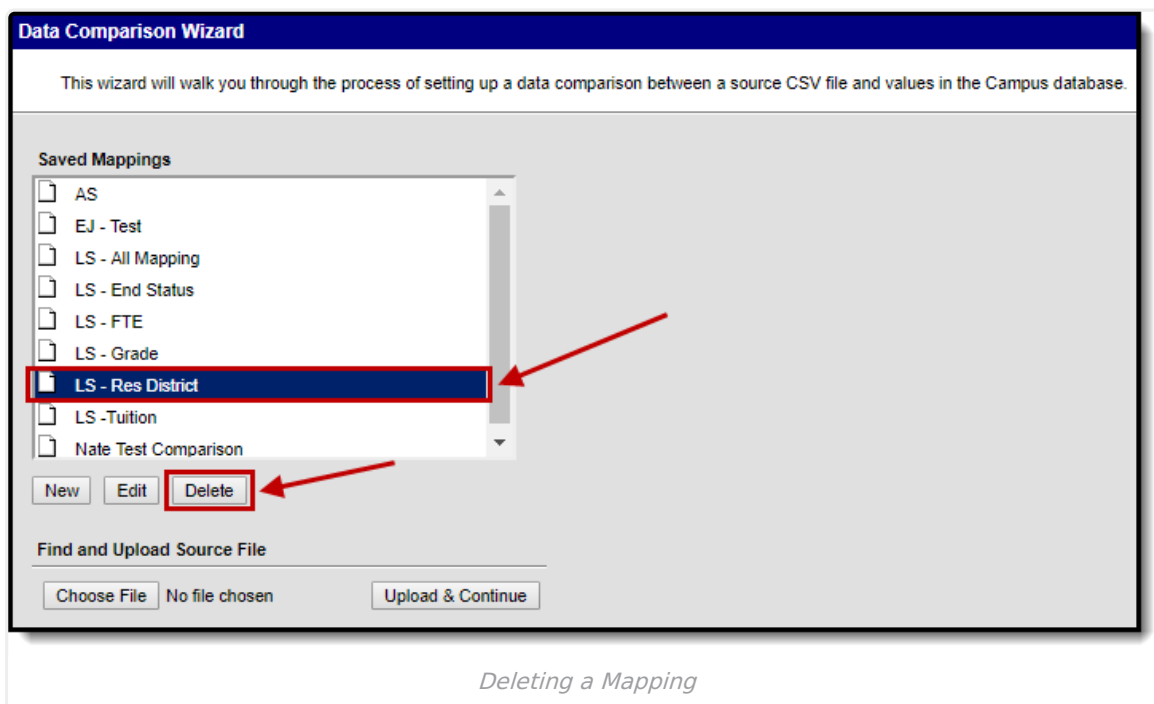
Compare Data

Edit and Delete Mappings

To edit an existing mapping, select the mapping in the **Saved Mappings** window and click the **Edit** button.



To delete an existing mapping, select the mapping in the **Saved Mappings** window and click the **Delete** button.



For Arizona Districts: Comparing Data Against AzEDS Reports

► [Click here to expand...](#)

Users can use the Ed-Fi Reconciliation tool to compare Ed-Fi data against AzEDS reports. The following are some examples of comparing this data:

- [Core Enrollment Data](#)
- [District of Residence Data](#)
- [Enrollment FTE Data](#)
- [Enrollment Tuition Payer Data](#)

Core Enrollment Data

A Core Enrollment Field Mapping can be used in conjunction with the **AzEDS Stud 10 Student Waiver Report: School Enrollment QRG** to do a comparison on student Ed-Fi ID, Enrollment Start Date, Enrollment End Date, Enrollment Service Type, Enrollment Start Status, and Enrollment End Status data.

1. Enter the following data into Data Comparison Wizard fields.
2. Upload the **AzEDS Stud 10 Student Verification Report: School Enrollment QRG file** ([click here for more information on how to generate this file](#)).

Data Comparison Wizard

Select the following options that will define the scope of the data to be compared.

Name

Does the source file have a header row?

Source File Includes Header: ☒

School & Year Options

School:

Scope Year:

Exclude Options

No Show: ☒

State Exclude: ☒

Students without the selected ID: ☒

Enrollment Service Type:

Enrollment Start Status:

Find and upload source file

No file selected.

3. Map fields as shown in the image below.

Name	Seq	Field Name
State Student ID	2	State Student ID
Membership Type	7	Enrollment Service Type
Code	9	Enrollment Start Status
Start Date	10	Enrollment Start Date
Exit Code	11	Enrollment End Status
Exit Date	12	Enrollment End Date

Compare Data Batch Queue - Compare Data

4. Select the **Compare Data** button to generate the report and review core enrollment data.

District of Residence Data

A District of Residence Mapping can be used in conjunction with the **AzEDS Stud 10 Student Verification Report: School Enrollment QRG** to do a comparison on student State Student ID and District of Residence data.

1. Enter the following data into Data Comparison Wizard fields.
2. Upload the **AzEDS Stud 10 Student Verification Report: School Enrollment QRG** file ([click here for more information on how to generate this file](#)).

Data Comparison Wizard

Select the following options that will define the scope of the data to be compared.

Name

Does the source file have a header row?

Source File Includes Header: ☒

School & Year Options

School:

Scope Year:

Exclude Options

No Show: ☒

State Exclude: ☒

Students without the selected ID: ☒

Enrollment Service Type:

Enrollment Start Status:

Find and upload source file

No file selected.

3. Map fields as shown in the image below.

Data Comparison Wizard

Define the columns in the source file that will be used to compare to the Campus database, all other columns in the uploaded data are a representation of the source data file.

Name	Source File	Field Name
District Of Residence	C:\CampusDocumentStore\ieBatchAppShare\batchQueue\ieaz\1\2017-09-25-14-17-18\Stud10-Core.csv	

☐ New

Name	Seq	Field Name
State Student ID	2	State Student ID
District Of Residence	15	Enrollment Resident District

Source File Data:

15		
Minutes	DistrictOfResidence	Re
		StudentS
	Chandler Unified District #80 (4242)	StudentS
		StudentSchoolAs
		StudentSchool
	Chandler Unified District #80 (4242)	StudentS
		StudentSchoolAs
		StudentSchool
		StudentS
	Chandler Unified District #80 (4242)	StudentS

4. Select the **Compare Data** button to generate the report and review core enrollment data.

Enrollment FTE Data

An Enrollment FTE Mapping can be used in conjunction with the AzEDS Stud 10 - FTE Data Verification Report to do a comparison on student State Student ID and FTE data.

1. Enter the following data into Data Comparison Wizard fields.
2. Upload the **AzEDS Stud 10 - FTE Data Verification Report** file ([click here for more information on how to generate this file](#)).

Data Comparison Wizard

Select the following options that will define the scope of the data to be compared.

Name

Does the source file have a header row?
 Source File Includes Header: ☒

School & Year Options
 School:
 Scope Year:

Exclude Options
 No Show: ☒
 State Exclude: ☒
 Students without the selected ID: ☒
 Enrollment Service Type:
 Enrollment Start Status:

Find and upload source file
 No file selected.

3. Map fields as shown in the image below.

Name	Source File	Format	Column Count	Row C
FTE	C:\CampusDocumentStore\ieBatchAppShare\batchQueue\ieaz\1\2017-09-25-14-24-53\Stud10-FTE.csv	Comma Separated Values	9	9

☐ New

Name	Seq	Field Name
State Student ID	2	State Student ID
FTE	8	Enrollment FTE

Source File Data:

1	2	3	4	5	6	7	8	
DistrictStudentID	StateStudentID	LastName	FirstName	MiddleName	StartDate	EndDate	FTE	
111111	111111	Student A	Test		7/24/2016		1	0e146
222222	222222	Student B	Veronica		7/25/2016	08/25/2016	1	ba745
222222	222222	Student B	Veronica		9/26/2016		0.5	71df1
333333	333333	Student C	Alan		3/6/2017		1	281e1
444444	444444	Student D	Ricardo		7/22/2016		1	62076
555555	555555	Student E	Logan		7/25/2016		1	9e1e5
666666	666666	Student F	William		7/25/2016		1	b5865
777777	777777	Student G	Mikaile		7/25/2016		1	be0ab

4. Select the **Compare Data** button to generate the report and review core enrollment data.

Enrollment Tuition Payer Data

An Enrollment Tuition Payer Mapping can be used in conjunction with the AzEDS Stud 10 –Tuition Payer Data Verification Report to do a comparison on student State Student ID and Tuition Payer Code data.

1. Enter the following data into Data Comparison Wizard fields.
2. Upload the **AzEDS Stud 10 –Tuition Payer Data Verification Report** file ([click here for more information on how to generate this file](#)).

Data Comparison Wizard

Select the following options that will define the scope of the data to be compared.

Name

Tuition Payer

Does the source file have a header row?

Source File Includes Header: ☒

School & Year Options

School:

All Schools

Scope Year:

21-22

Exclude Options

No Show: ☒

State Exclude: ☒

Students without the selected ID: ☒

Enrollment Service Type:

Select Values

Enrollment Start Status:

✕ E: NON-SAIS DISTRICT USE ONLY!

Find and upload source file

Browse... No file selected.

Upload & Continue

3. Map fields as shown in the image below.

Name	Source File	Format	Column Count	Row Count							
Tuition Payer	C:\CampusDocumentStore\ieBatchAppShare\batchQueue\ieaz\1\2017-09-25-14-28-31\Stud10-TuitionPayer.csv	Comma Separated Values	9	9							
<div><div><div>New</div></div></div>											
Name	Seq	Field Name	Source File Data:								
State Student ID	2	State Student ID	1	2	3	4	5	6	7	8	
Tuition Payer Code	8	Enrollment Tuition Payer	DistrictStudentID	StateStudentID	LastName	FirstName	MiddleName	StartDate	EndDate	Tuition Payer Code	
			111111	111111	Student A	Test		7/24/2016		1	0e1469c8-56a1-
			222222	222222	Student B	Veronica		7/25/2016	08/25/2016	1	ba7459dc-d8f3-
			222222	222222	Student B	Veronica		9/26/2016		2	71df1671-63ae-
			333333	333333	Student C	Alan		3/6/2017		1	281ebfc0-4114-
			444444	444444	Student D	Ricardo		7/22/2016		1	62078a2b-2999-
			555555	555555	Student E	Logan		7/25/2016		1	9e19b6a-d899-
			666666	666666	Student F	William		7/25/2016		1	b58653b9-1610-
			777777	777777	Student G	Mikale		7/25/2016		1	be0ab02e-ced0-

Enrollment Tuition Payer Mapping

- Select the **Compare Data** button to generate the report and review core enrollment data.