

CA ODS Reports

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[Report Logic](#) | [File Comparison Details](#) | [Report Editor](#) | [Compare Data Using the CA ODS Tool](#)

ODS Reports compare student, staff and course data that exists in Infinite Campus against student, staff and course data that exists in CALPADS. Users generate the desired CALPADS extract (SENR, SELA, SPRG, SINP, SDEM, CRS, SCS, or SASS) in the state format in Infinite Campus and save it, then generate the same extract with the same selections in the CALPADS ODS (Operational Data Store) and save that.

Then, upload both files in the CA ODS editor to either compare the results of the files or upload the results of the files. The ODS tool generates a report that shows which student, staff or course data doesn't exist in CALPADS and should be added to ODS, which student, staff or course data doesn't exist in Campus and should be deleted in ODS, which students, staff or courses have different values between the two files and should be updated, and which students, staff and courses exist in both systems and no action is taken.

The goal is to have matching data in both systems. These records are considered *synchronized*.

CA ODS ☆
Reporting > CA State Reporting > CA ODS

Report Details

The ODS report is used to compare data that exists in Infinite Campus with data that exists in CALPADS.

The report will take two files, one generated from Infinite Campus and one generated from CALPADS ODS.

File to Compare *

SELA

Upload Infinite Campus File

Current File: SELA (13).txt

Upload CALPADS ODS File

Current File: SELA (13) ODS.txt

Add Comparison To Queue Add Data Files To Queue

Batch Queue List

Start Date: mo./day/yr. End Date: mo./day/yr.

Report Title	Queued Time ↓	Status
CA_SENR_ODS compare_html	08/23/2023 2:37:00 PM	COMPLETED
CA_SENR_ODS compare_CSV	08/23/2023 2:37:00 PM	COMPLETED

ODS Reports Editor

Read - View and generate the ODS Reports

Write - N/A

Add - N/A

Delete - N/A

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

Report Logic

The Comparison between the Campus-generated extracts and the ODS-generated extracts matches on particular fields, detailed in the [File Comparison Detail](#) section. The Campus-generated extracts must have the Reporting Date and at least one Calendar selected in order to generate.

When adding the files to the Queue to update ODS data, an action of Add, Delete or Update will be taken for the data in ODS, causing records in Campus and ODS to be synchronized.

File formats need to be uploaded in the State Format (carat delimited).

Records included the file that do not match the selected calendars are ignored in the comparison.

Note that the CALPADS ODS files include two additional date fields at the end of the file that Infinite Campus does not use.

File Comparison Details

[SPRG](#) | [SELA](#) | [SENR](#) | [SINF](#) | [SDEM](#) | [SASS](#) | [CRS](#) | [SCS](#)

This section provides information on which fields are used in the comparison logic that determines the Add, Delete, Update or Synchronized status.

Fields are assigned a **Match Weight**. This weight is used to match multiple records in the same file and indicate the correct record. For example, two records for the SPRG exist in both Campus and ODS. Fields like Membership Start Date have a higher weight than fields like First Name. The Match Weight is listed in parentheses in the Additional Fields section below for each extract where applicable.

SPRG

[▶ Click here to expand...](#)

SELA

[▶ Click here to expand...](#)

SENR

[▶ Click here to expand...](#)

SINF

[▶ Click here to expand...](#)

SDEM

▶ [Click here to expand...](#)

SASS

▶ [Click here to expand...](#)

CRS

▶ [Click here to expand...](#)

SCS

▶ [Click here to expand...](#)

Report Editor

Option	Definition
<p>File to Compare</p>	<p>Lists which CALPADS Extracts can be selected for comparison and data verification.</p> <ul style="list-style-type: none"> • CALPADS Student Program (SPRG) • CALPADS Student English Language Acquisition (SELA) • CALPADS SSID Enrollment (SENR) • CALPADS Student Information (SINF) • CALPADS Staff Demographics (SDEM) • CALPADS Course Section (CRS) • CALPADS Student Course Section (SCS) • CALPADS Staff Assignment (SASS) <p>It is assumed that the files generated from Infinite Campus are generated in the state format and saved for easy uploading (the next option).</p>
<p>Upload Infinite Campus File</p>	<p>Allows the uploading of one of the above extract files to the editor. When selected, a side panel displays where the saved file can be uploaded.</p> <p>Files are saved per user.</p>

Option	Definition
Upload CALPADS ODS File	<p>Allows the uploading of one of the CALPADS files listed above from the CALPADS ODS system. These should also be in the state format and have the same options selected as the Infinite Campus file.</p> <p>For example, when generating the CALPADS SPRG file, users can select specific programs to include. If the Infinite Campus file does not include the same programs selected in the ODS file, there will be no synchronized records, meaning data in Infinite Campus matches the data in ODS (the goal).</p> <p>Files are saved per user.</p>
Add Comparison to Queue	<p>Once the files are uploaded, use this option to generate the file that lists the data results. Essentially, this is the result of data in Campus and data in ODS. Each record has a result:</p> <ul style="list-style-type: none"> • ADD - Data is not in ODS. Record will be added to ODS. • DELETE - Data is not in Campus but is in ODS. Record will be deleted in ODS. • UPDATE - Some data is different between IC and ODS. Record will be updated in ODS. • SYNCHRONIZED - Data is the same between ODS and Campus. No changes will occur. The ultimate goal is to have all data be synchronized (match) in both systems. <p>This option does not change any data in ODS or in Campus. This step is provided to compare the differences between ODS and Campus data prior to updating files that will actually change the data.</p>
Add Data Files to Queue	<p>After spending time comparing the data for the reports, this option queues the changes that are needed and are added to ODS.</p> <ul style="list-style-type: none"> • ADD - Data that is not in ODS will be added. • DELETE - Data that is not in Campus will be removed from ODS. • UPDATE - Data that does not match will be updated in ODS.
Batch Queue List	<p>Because this is a large set of data being compared or uploaded, all uploaded files are processed in the Batch Queue. When the files have been compiled and are ready to compare, the Status displays as Completed and can be selected for viewing.</p> <p>Filter the list of Batch Queue reports using the Start Date and End Date fields to narrow results.</p>

Compare Data Using the CA ODS Tool

Step 1. Generate the CALPADS extract in Campus

1. Navigate to the desired CALPADS Extract, as follows:
 - CALPADS Student Program (SPRG)
 - CALPADS Student English Language Acquisition (SELA)
 - CALPADS SSID Enrollment (SENR)
 - CALPADS Student Information (SINF)
 - CALPADS Staff Demographics (SDEM)
 - CALPADS Course Section (CRS)
 - CALPADS Student Course Section (SCS)
 - CALPADS Staff Assignment (SASS)
2. Generate the CALPADS extract in the State Format.
3. Save that file where it can be easily found and with a file name that explains it is the CALPADS extract from Campus.

Take note of which options were chosen when generating these extracts. The same selections need to be made when generating the files from CALPADS.

This includes calendars, programs, effective dates, collection/report type, etc.

Step 2. Generate the CALPADS extract in ODS

1. Follow the steps provided by CALPADS at this location - <https://documentation.calpads.org/Extracts/ODSExtract/> - to generate the same CALPADS Extract as was generated in Step 1.
2. Ensure the same options were selected when generating the extracts in Campus. When different options are selected, the comparison file will not be comparing the same data, and the changes submitted to ODS for updating, adding or deleting will be incorrect.
3. Generate the file in the State Format.
4. Save that file where it can be easily found and with a file name that explains it is the CALPADS extract from ODS.

Step 3. Upload Files on ODS Tool

1. Select the desired CALPADS Extract to compare by selecting one of the CALPADS Extract options in the **Files to Compare** field.
2. Click the **Upload Infinite Campus File** button. In the side panel, click in the text box to locate and attach the saved file from Step 1 and click the **Save** button.
3. Click the **Upload CALPADS ODS File** button. In the side panel, click in the text box to locate and attach the saved file from Step 2 and click the **Save** button.
4. Click **Close** in the Side Panel.
5. Click the **Add Comparison to Queue** button. Due to the large amount of data that is included in extracts, the file is automatically sent to Batch Queue. A row is added to the Batch Queue section for the files that were just uploaded. The status begins as Queued. When it is ready to view, the status changes to Completed.

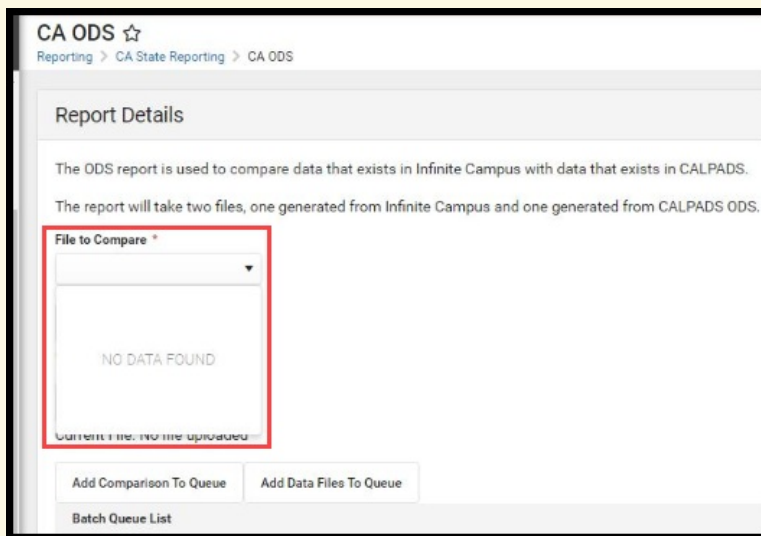
Files are added to the Batch Queue list in CSV and in HTML formats. The CSV format, when copied into Excel, allows filtering and sorting to group data by Add or Delete. The HTML format cannot be

sorted but is easier for reading.

To see all files that are queued, go to the Process Alerts (formerly Process Inbox) by choosing your name from the Index (when in the Classic View) or access the Message Center (when in the New Look).

To remove a queued report or a completed report, administrators can use the Delete or Delete All options available in the [Batch Queue Admin](#) tool.

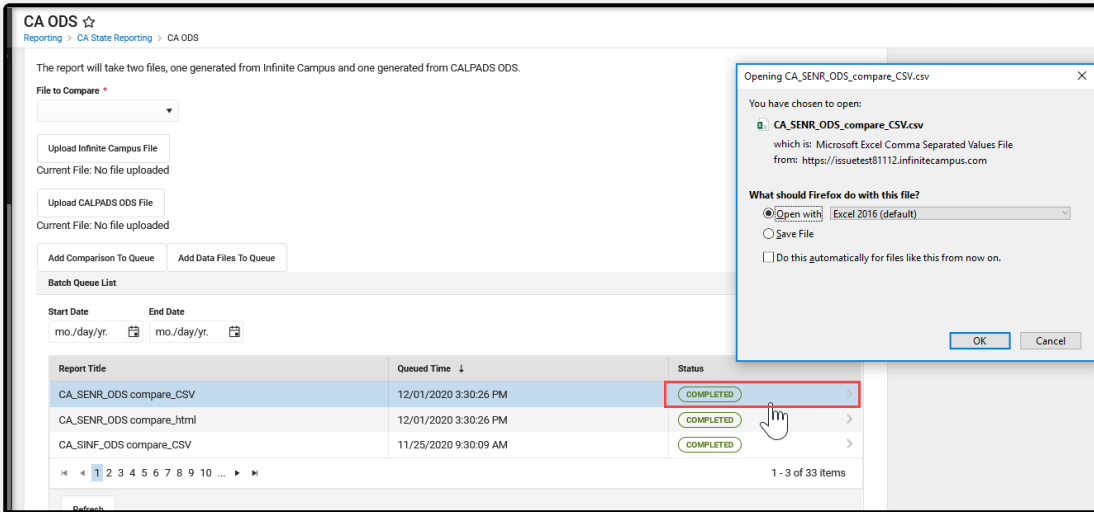
If the Files to Compare dropdown list has no extracts available and reads NO DATA FOUND, contact Campus Support to request that the Student Performance Cache database be updated to the latest version.



A separate database is used to store the data snapshot records (the same database that uses the Student Performance Cache). If the Campus application version cannot find a compatible version of that storage database, the list of comparable files is blank.

Step 4. Compare Student, Staff or Course Data

Once the comparison has completed in the queue, open the file to view the results. The HTML format is easy to read and scroll through. The CSV format can be sorted to look at all records that will be added or deleted, for example, or to see which records don't exist in ODS or in Campus.



Open Completed Comparison File

Districts need to work with those responsible in the district to verify that the data the comparison report returns is accurate. Determine whether a record that has an Update Status of Add really should be added, or a record that has an Update Status of Delete really should be deleted. Also carefully review the available programs in the district for accuracy.

Records in Infinite Campus can be modified as needed. For example, if after comparing data and it is discovered student enrollments were ended inaccurately, make the changes in Campus and repeat the previous steps to compare the newly modified enrollment records.

Sample Files

An HTML file looks like this:

compareStatus	RecordType	Transaction Type	LocalRecordID	ReportingLEA	SchoolAttendance	SchoolAttendanceNPS	AcademicYearID	SSID	LocalStudentID	FirstName	MiddleName
Add: Not found on ODS	SENR			9876543	8765432		2020-2021	1234567890	12345678	Abner	Louis
Delete: Not found in IC	SENR-R			9876543	8765432		2020-2021	1234567890	12345678	Abner	Louis
Add: Not found on ODS	SENR			9876543	8765432		2020-2021	2345678901	23456789	Becca	Elizabeth
Add: Not found on ODS	SENR			9876543	8765432		2020-2021	2345678901	23456789	Becca	Elizabeth
Add: Not found on ODS	SENR			9876543	8765432		2020-2021	2345678901	23456789	Becca	Elizabeth
Delete: Not found in IC	SENR-R			9876543	8765432		2020-2021	2345678901	23456789	Becca	Elizabeth
Delete: Not found in IC	SENR-R			9876543	8765432		2020-2021	2345678901	23456789	Becca	Elizabeth
Delete: Not found in IC	SENR-R			9876543	8765432		2020-2021	2345678901	23456789	Becca	Elizabeth
Add: Not found on ODS	SENR			9876543	8765432		2020-2021	3456789012	3457890	Charles	Nathaniel
Delete: Not found in IC	SENR-R			9876543	8765432		2020-2021	3456789012	3457890	Charles	Nathaniel

Comparison File - HTML Format

A CSV file looks like this:

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
1	compareStatus	RecordType	TransactionT	LocalRecordID	ReportingLEA	SchoolAttendance	SchoolAtte	AcademicYearID	SSID	LocalStudentID	FirstName	MiddleName	LastName	Suffix	AliasFirs
2	Delete: Not found in IC	SENR-R			9876543	8765432		2020-2021	1234567890	12345678	Abner	Louis	Student		
3	Add: Not found on ODS	SENR			9876543	8765432		2020-2021	2345678901	23456789	Becca	Elizabeth	Student		
4	Delete: Not found in IC	SENR-R			9876543	8765432		2020-2021	2345678901	23456789	Becca	Elizabeth	Student		
5	Add: Not found on ODS	SENR			9876543	8765432		2020-2021	3456789012	34567890	Charles	Nathaniel	Student		
6	Add: Not found on ODS	SENR			9876543	8765432		2020-2021	3456789012	34567890	Charles	Nathaniel	Student		
7	Delete: Not found in IC	SENR-R			9876543	8765432		2020-2021	3456789012	34567890	Charles	Nathaniel	Student		
8	Delete: Not found in IC	SENR-R			9876543	8765432		2020-2021	3456789012	34567890	Charles	Nathaniel	Student		
9	Add: Not found on ODS	SENR			9876543	8765432		2020-2021	4567890123	45678901	Daphne	Anne	Student		
10	Delete: Not found in IC	SENR-R			9876543	8765432		2020-2021	4567890123	45678901	Daphne	Anne	Student		

Comparison File - CSV Format

The above images show ADD and DELETE statuses. When the file is uploaded to ODS, the records will either be ADDED to ODS because they do not exist there but do exist in Campus, or they will be DELETED from ODS because the records exists there but does not exist in Campus.

When multiple records exist for both synchronized values and update/delete/add values, the update/delete/add values are removed.

For UPDATE records, the difference in data has a row for the information in Campus (labeled with IC) and a row for the information ODS (labeled with ODS). The difference could be any value in the extracts that don't match exactly - e.g., a birth date, a gender value, a grade level. In the image below, data differences exist for the Birth Date field, School Start Date and Enrollment Status.

	20110622	M	Sacramento	US-CA	US	20200903	10	04	
	IC(20140528) ODS(20140527)	F	Sacramento	US-CA	US	20200903	10	01	
	IC(20140528) ODS(20140527)	F	Sacramento	US-CA	US	20200903	20	01	
	IC(20140528) ODS(20140527)	F	Sacramento	US-CA	US	20200903	IC(10) ODS(20)	01	
	IC(20140528) ODS(20140527)	F	Sacramento	US-CA	US	20200903	IC(20) ODS(10)	01	
	20110411	M	Sacramento	US-CA	US	20200903	IC(10) ODS(20)	04	
	20110411	M	Sacramento	US-CA	US	20200903	IC(20) ODS(10)	04	
	20101127	M	Sacramento	US-CA	US	IC(20200903) ODS(20201012)	IC(10) ODS(20)	04	
	20101127	M	Sacramento	US-CA	US	IC(20201012) ODS(20200903)	IC(20) ODS(10)	04	
	20131213	M	Sacramento	US-CA	US	20200903	10	01	

Update Status - Data Differences Display

For SYNCHRONIZED records, data is not modified when the files are uploaded to ODS. These records still display on the Comparison report.

Synchronized: IC and ODS Match	SENR			9876543	6059315		2020-2021	456789012	45678901
Synchronized: IC and ODS Match	SENR			9876543	8765432		2020-2021	5678901230	56789012
Synchronized: IC and ODS Match	SENR			9876543	8765432		2020-2021	5678901230	56789012
Synchronized: IC and ODS Match	SENR			9876543	6111389		2020-2021	67890123	6789012

Synchronized Status - Records Match

Step 5. Queue Files for Uploading to ODS

After comparing the data and making any necessary changes to data in Campus, the information can be uploaded to ODS.

Be aware that this step changes data in ODS.

Click the **Add Data Files to Queue** button. Three files are added to the Batch Queue List - one file each for Add, Delete and Update.

The screenshot shows the 'CA ODS' interface. At the top, there's a 'File to Compare' dropdown set to 'SENR'. Below it are buttons for 'Upload Infinite Campus File' and 'Upload CALPADS ODS File'. A red box highlights the 'Add Data Files to Queue' button. Below this is the 'Batch Queue List' section, which includes 'Start Date' and 'End Date' fields. A table lists the queued items:

Report Title	Queued Time ↓	Status
CA_SENR_ODS deleteStateRecords	12/03/2020 10:23:11 AM	QUEUED
CA_SENR_ODS updateStateRecords	12/03/2020 10:23:11 AM	QUEUED
CA_SENR_ODS addStateRecords	12/03/2020 10:23:11 AM	QUEUED

A red box highlights the three rows in the table, and a red arrow points from the 'Add Data Files to Queue' button to the first row. At the bottom of the table, it says '1 - 3 of 36 items' and there is a 'Refresh' button.

Add Data Files to Queue

Once completed (e.g., state changes from Queued to Completed), open the file to see what was added, deleted or updated in ODS. That file looks like this:

```
SENR^^1234567^2345678^^2020-2021^123456789^123456789^Cameron^^Student^^^^^20140528^F^Sacramento^US-CA^US^20200903^10^01^^^^^^^^^^  
SENR^^1234567^2345678^^2020-2021^123456789^123456789^Cameron^^Student^^^^^20140528^F^Sacramento^US-CA^US^20200903^10^01^^^^^^^^^^  
SENR^^1234567^2345678^^2020-2021^123456789^123456789^Cameron^^Student^^^^^20140528^F^Sacramento^US-CA^US^20200903^20^01^^^^^^^^^^  
SENR^^1234567^2345678^^2020-2021^123456789^123456789^Cameron^^Student^^^^^20140528^F^Sacramento^US-CA^US^20200903^20^01^^^^^^^^^^  
SENR^^1234567^3456789^^2020-2021^234567890^234567890^Emily^^Student^^^^^20131213^M^Sacramento^US-CA^US^20200903^10^01^^^^^^^^^^  
SENR^^1234567^4567890^^2020-2021^45678901^45678901^Melanie^^Student^^^^^20140528^M^Davis^US-CA^US^20200903^10^01^^^^^^^^^^
```

Uploaded File to ODS