Ed-Fi Configuration Tool - Configure Ed-Fi Connection

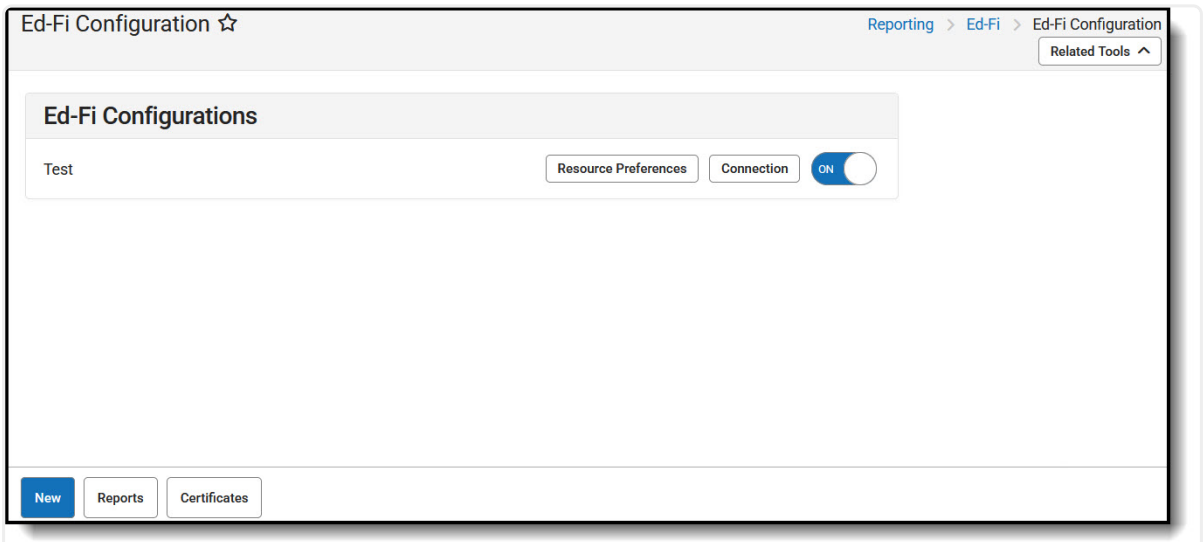
Last Modified on 11/02/2026 3:28 pm CST

Path: Reporting > Ed-Fi > Ed-Fi Configuration

The Ed-Fi Configuration tool is used to establish a data connection between Campus and the Ed-Fi system and to map resources to Ed-Fi.

> Infinite Campus only supports one open connection at a time when a multi-tenant setup is being used.

Once a successful connection is made, Resource Preferences are selected, and Ed-Fi ID's are assigned to users, data will flow properly from Campus to Ed-Fi.



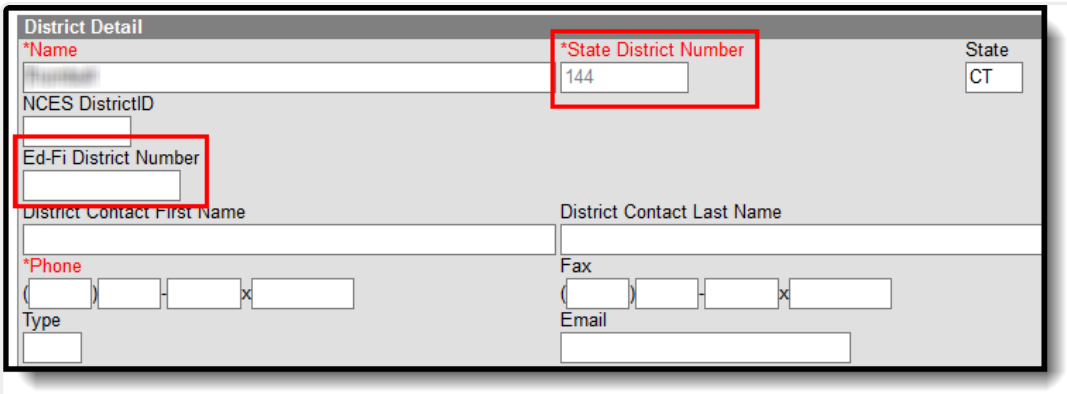
Ed-Fi Configuration

> See the Ed-Fi Configuration Tool Rights article for information on available tool rights.

Ed-Fi Claim Sets and District Numbers

A Claim Set must be set up for a district in the Ed-Fi ODS in order for data to be posted from Campus.

The district number located in the State District Number field in School & District Settings > District > District Information is the default district number used by Ed-Fi. If this number contains alphanumeric characters or if a district wants to use a different number, then the Ed-Fi District Number field can be used as an override.

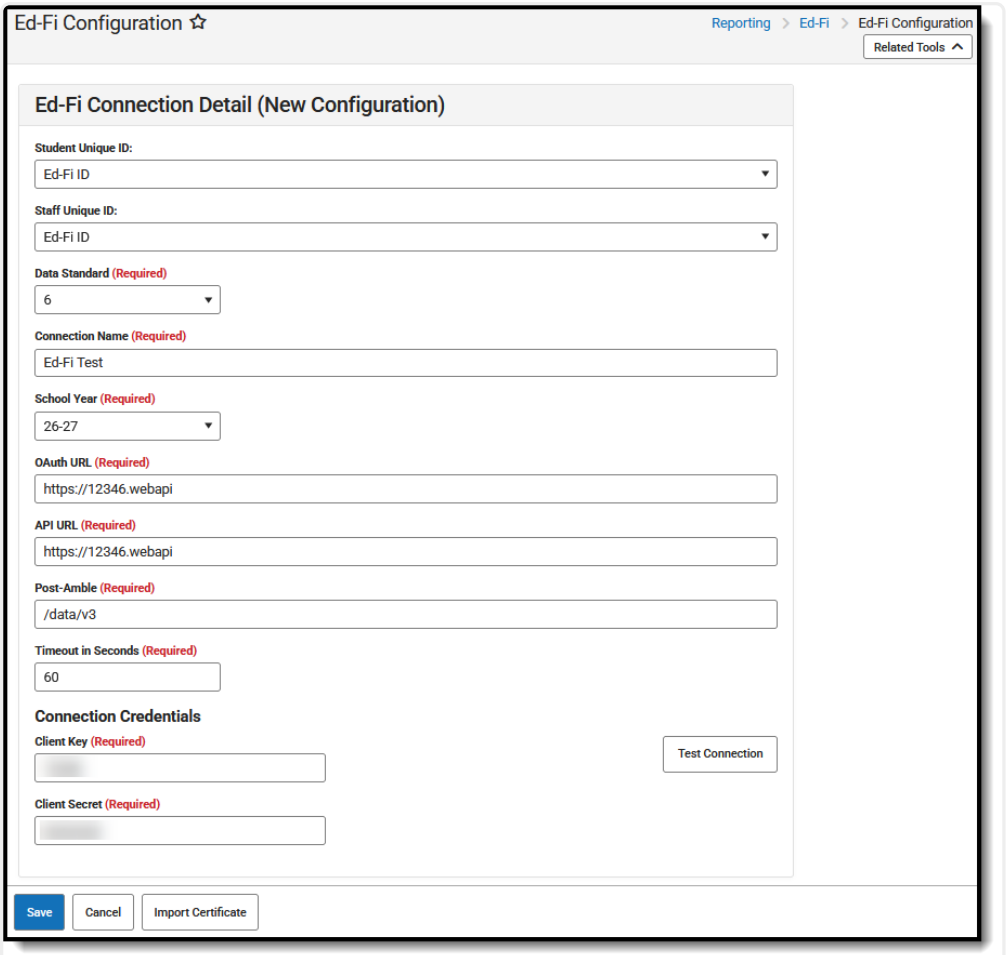


District Numbers

Enter Ed-Fi Configuration Values

Ed-Fi Configuration values are created by the Ed-Fi ODS and are entered by the district. If information does not make a successful connection, work with Campus Support to troubleshoot your issues.

If incorrect values are entered and saved, syncing between Campus and Ed-Fi is disabled and any attempts at syncing data may result in unprocessed events within the Event Queue.



Entering Connection Configuration Values

Ed-Fi Configuration fields

The following fields are available on all Ed-Fi Configurations:

Connection Credentials Field	Description	Database field
Connection Type	Indicates the type of Ed-Fi connection, either State or Core. Once selected on creation of the Ed-Fi Configuration, it cannot be changed.	EdFiConfiguration.[type]
Connection Name	The unique name given to the connection.	EdFiConfiguration.[name]

Connection Credentials Field	Description	Database field
School Year	The school year scoped for the configuration values entered. Start Date and End Date values should be entered for the school year in the School Years editor. Otherwise, a default Start Date of 7/1/XXXX is used and a default End Date of 6/30/XXXX is used to determine what year to send data (where XXXX = the Start Year and End Year values entered on the School editor).	EdFiConfiguration.endYear
O-Auth URL	The base URL of the endpoint to retrieve an OAuth Token. Please see the O-Auth URL and ID Post Amble Information section below for details on entering information in this field.	EdFiConfiguration.oauthUrl
API URL	The base URL of the API.	EdFiConfiguration.url
Post-Amble	The URL for Ed-Fi resources and Ed-Fi Identities is generally different, so this parameter is to store the URL segment for identities (this is appended on to the API URL). Please see the O-Auth URL and ID Post Amble Information section below for details on entering information in this field.	EdFiConfiguration.postAmble
Timeout in Seconds	This field determines (in seconds) the amount of time allowed to pass before the connection between Campus and Ed-Fi is considered timed out and Ed-Fi events are not processed. These Ed-Fi events are then reprocessed the next time a quartz job runs. This field is defaulted to a value of 60 seconds but can be modified if desired.	EdFiConfiguration.timeoutSeconds
Client Key	The client key. There could be multiple APIs attached to one given URL. They are demarcated based on a key.	EdFiConfiguration.clientKey
Client Secret	The secret that goes along with the above key. This is used to generate the OAuth token.	EdFiConfiguration.clientSecret

Connection Credentials Field	Description	Database field
Test Connection	Selecting this button initiates a check to see if the values entered in the configuration fields are valid and a proper connection has been made between Campus and Ed-Fi. If a connection is made, a message saying "Connection is Valid" displays.	N/A

Core-Only Ed-Fi Configuration fields:

The following Configuration fields are only available on Core Ed-Fi Configurations:

Connection Credentials Field	Description	Database Field
Student Unique ID	Indicates the unique identifier assigned to students. This unique identifier is used in Ed-Fi to link all related data to a student. Options are: • Ed-Fi ID • Student Number • Student State ID Once an ID has been used for a Configuration, it should not be changed. If this option is changed after data has been sent, there is potential for data conflicts from Campus to the ODS.	EdFiConfiguration.studentUniqueID

Connection Credentials Field	Description	Database Field
Staff Unique ID	Indicates the unique identifier assigned to staff. This unique identifier is used in Ed-Fi to link all related data to a staff member. Options are: • Ed-Fi ID • Local Staff Number • Staff State ID Once an ID has been used for a Configuration, it should not be changed. If this option is changed after data has been sent, there is potential for data conflicts from Campus to the ODS.	EdFiConfiguration.staffUniqueID
Data Standard	Indicates the Ed-Fi Data Standard used for the Configuration.	EdFiConfiguration.dataStandard

State-specific Ed-Fi Configuration fields:

The following Configuration fields are only available for state Ed-Fi configurations. Fields will vary depending on state.

Connection Credentials Field	Description	Database Field
ID Post-Amble	The Identity API Post-Amble for the Ed-Fi Configuration.	EdFiConfiguration.idPostAmble
API Profile	The API profile being loaded for the Ed-Fi Configuration.	EdFiConfiguration.apiProfile
Add Multiple Credentials	Toggles multi-connection functionality. See the Multiple Applications section below for more information	N/A
Count Date 1	A date associated with counts for state reporting.	EdFiConfiguration.countDate1
Count Date 2	A date associated with counts for state reporting.	EdFiConfiguration.countDate2

Connection Credentials Field	Description	Database Field
Count Date 3	A date associated with counts for state reporting.	EdFiConfiguration.countDate3

O-Auth URL and ID Post Amble Information

Ed-Fi Version	Field	Value	Example
3.X	O-Auth URL	The server URL concatenated with /edfi.ods.webapi.	If the Base URL is: https://edfiods-dev002.infinitecampus.com/edfi.ods.webapi/data/v3. Then the O-Auth URL is the part of the Base URL before /data. Add https:// to the beginning if it is not present. So in this example, the O-Auth URL is: https://edfiods-dev002.infinitecampus.com/edfi.ods.webapi.
	ID Post Amble	The ID Post Amble is /data through the end of the Base URL. Note: The end year of the school year is optional as part of the ID Post-Amble in Ed-Fi 3.X.	If the Base URL is: https://edfiods-dev002.infinitecampus.com/edfi.ods.webapi/data/v3 Then the ID Post Amble is /data through the end of the Base URL. So in this example, the ID Post Amble is: /data/v3.

Multiple Applications

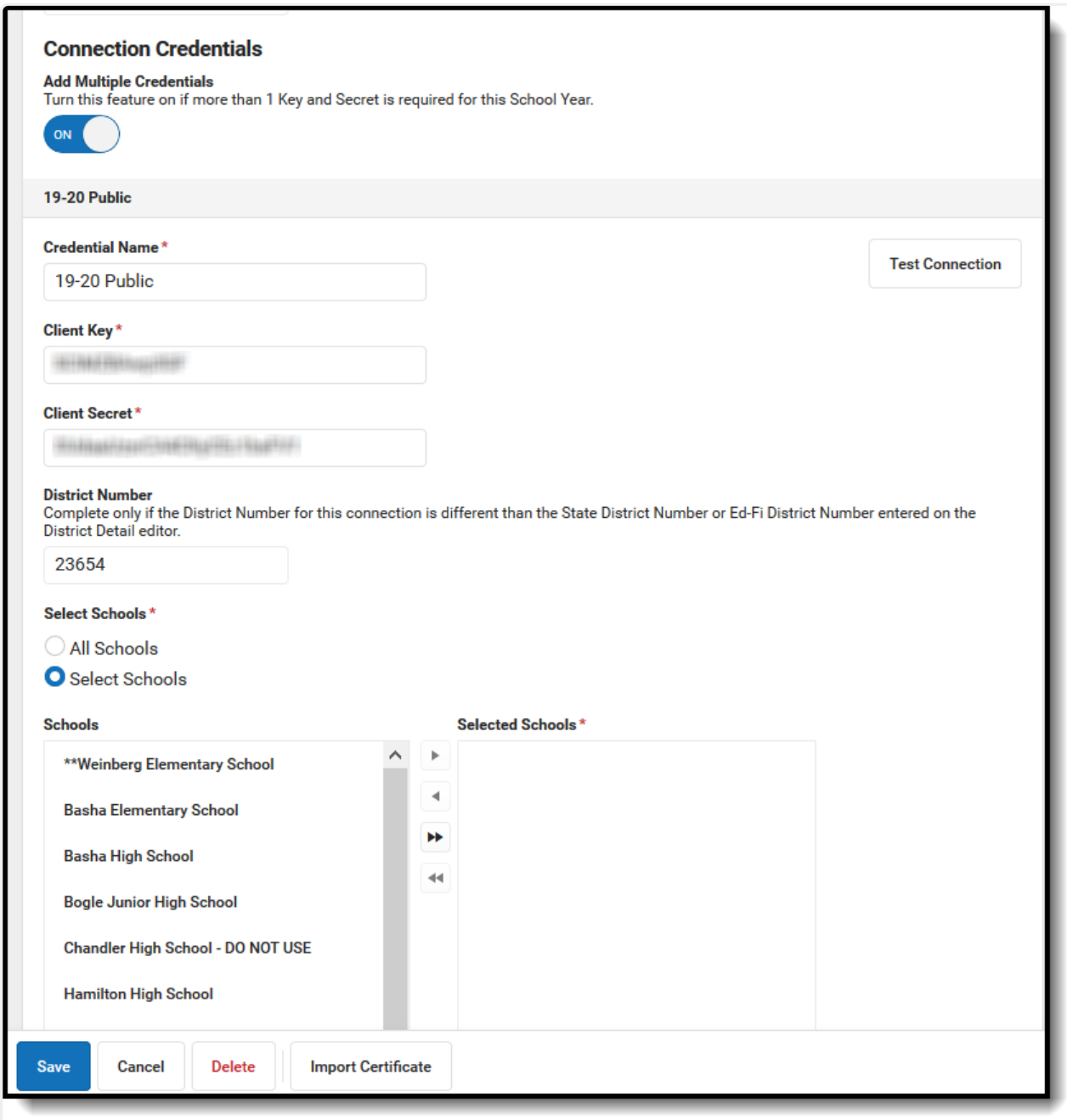
Multiple Applications are used to allow Infinite Campus users that have more than one District using the same instance of Infinite Campus (one database) to create multiple connections to the state ODS in the same school year. Examples of this are Charter Schools, Private Schools, Consortium, etc. where the State considers these to be independent Districts but share a single Infinite Campus database. Users can enter multiple Keys and Secrets and assign which schools belong to that application.

Single Configuration with Multiple Applications vs. Multiple Configurations

If all the schools can share the same Resource Preference settings, users should create one configuration and add an application for each Key and Secret they need to report. If different groups of schools need to use different Resource Preference settings, it is recommended that a

configuration is created for each type of Resource Preferences needed. Multiple applications can be created under each configuration if needed.

This option is only available in states where Ed-Fi is used for state reporting and the Ed-Fi Connection Type is State.



Entering Multiple Credentials

The following describes each Multiple Credential field:

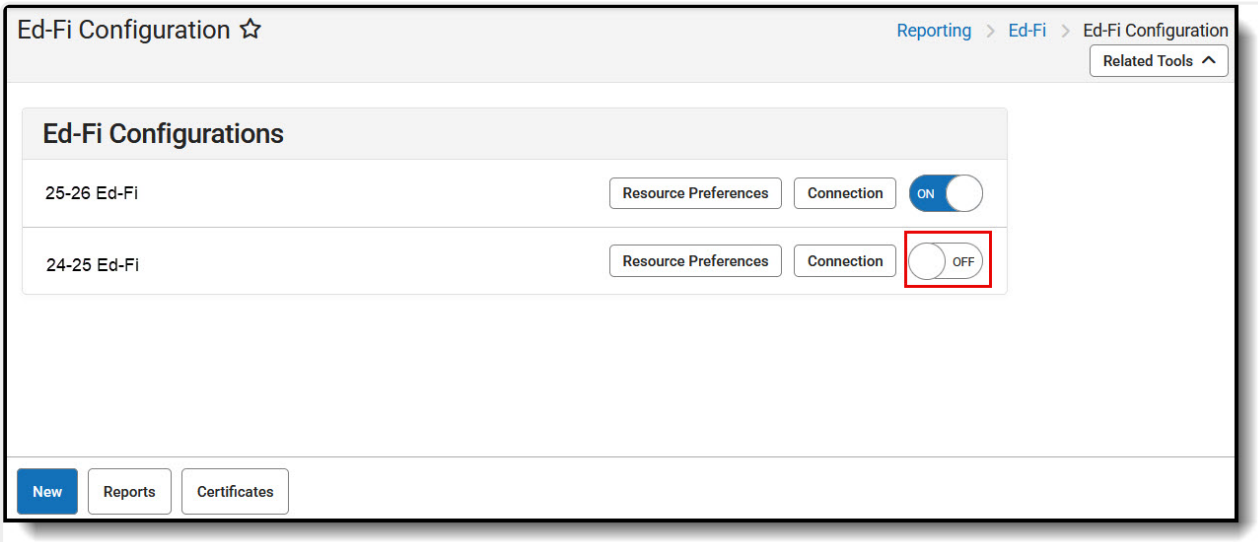
Field	Description	Database Field
Add Multiple Credentials	Turn this feature on if more than one Key and Secret is required for this School Year. This option is only available in states where Ed-Fi is used for state reporting and the Ed-Fi Connection Type is State.	N/A
Credential Name	The name of the application.	EdFiApplication.[name]
Client Key	The client key. There could be multiple APIs attached to one given URL. They are demarcated based on a key.	EdFiApplication.clientKey
Client Secret	The secret that goes along with the above key. This is used to generate the OAuth token.	EdFiApplication.clientSecret
Identity Credential (Wisconsin Only)	Identifies the credential that is used when using the Ed-Fi locator tool to search for/assign Ed-Fi IDs. Only one credential can be marked as the Identity Credential.	N/A
District Number	Used to assign a District Number (Local Education Agency) to an application. This field should only be used if the District Number is different than the Ed-Fi District Number or the State District Number.	EdFiApplication.districtNumber

Field	Description	Database Field
Selected Schools	The school(s) that should report the ODS for the Key and Secret entered in this application. • Schools can only be in one Configuration/Application per School Year. • If a school is removed from one Configuration/Application and added to a new one, all data sent to the original ODS will remain until a resync is completed for that school. • Only schools saved to a Configuration/Application will appear in the Resync and Delete Tools School droplist. ◦ If a school is saved to a Configuration/Application and then removed, the school will remain in the Resync and Delete Tools for that Configuration/Application for data cleanup purposes. No new data will be sent to the ODS from which the school was removed. • Resource Preferences that have data specific to a School or Calendar will only show data from schools assigned to that Configuration (Grading Periods, Sessions, Courses, etc.).	EdFiApplication.allSchools **OR** EdFiApplicationSchool.schoolID
Add	Allows the user to add a new Key and Secret to create a new Application within the ODS. This should only be done if all applications will share the same Resource Preferences.	N/A
Remove	Removes the application. All data will remain in the ODS and in the Identity Mapping tables if any data was sent.	N/A
Test Connection	Selecting this button initiates a check to see if the values entered in the configuration fields are valid and a proper connection has been made between Campus and Ed-Fi. If a connection is established, a message stating "Connection is Valid" appears.	N/A

Turn Off Old Connections

Users can turn off connections from previous years and store the Connection Details and Resource Preferences if desired. This ensures that data from previous years is not sent. Changes to Resource Preferences and Connection Details cannot be made to inactive connections.

Note: When a connection is turned off, it does not appear in the Resync and Delete tools.

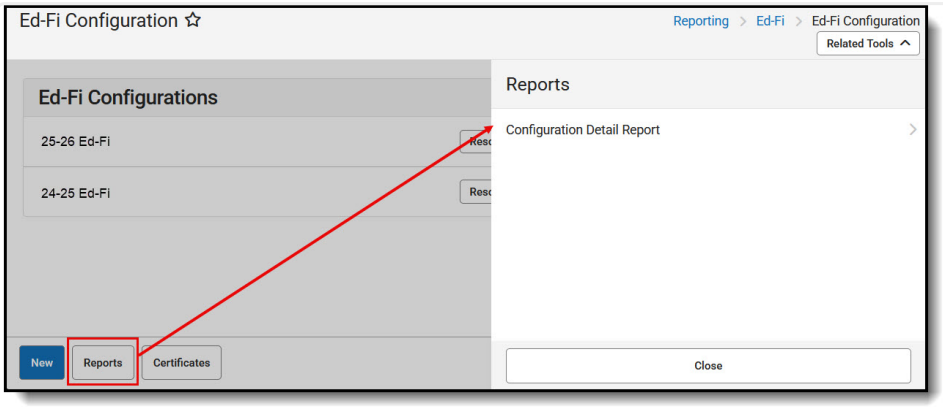


Configuration Toggle

Generate a Report of Configurations

A report of configurations and related details can be generated by clicking the Reports button on the Ed-Fi Configuration screen.

This option is only available in states where Ed-Fi is used for state reporting, and the Ed-Fi Connection Type is State.



Configuration Reports

To enter generate the report of configurations:

1. Select **Reports** on the Ed-Fi Configuration screen.
2. Select the **Configuration Detail Report.**
3. The report generates and displays details of the different configurations:

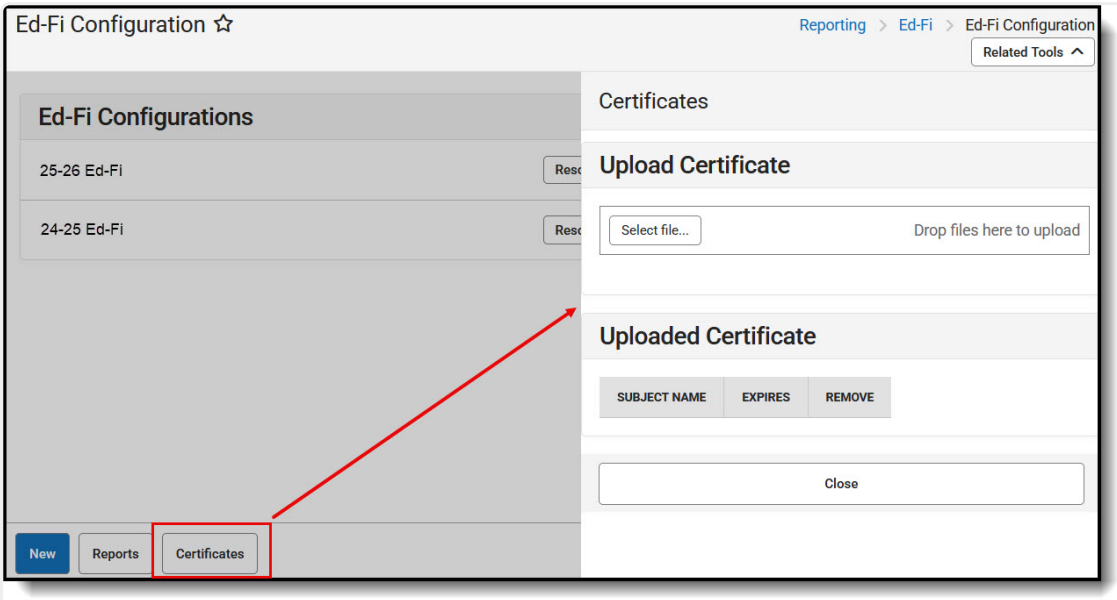
Configuration Name	Credential Name	School Name	Active Status	Year
19-20 State 3.1	19-20 Application 1	Elementary School	1	2020
19-20 State 3.1	19-20 Application 1	High School	1	2020
19-20 State 3.1	19-20 Application 1	Middle School	1	2020
19-20 State 3.1	19-20 Application 2	Elementary School	1	2020
19-20 State 3.1	19-20 Application 2	High School	1	2020
19-20 State 3.1	19-20 Application 2	MiddleSchool	1	2020
18-19 connection	18-19 Application 1	Elementary School	1	2019
18-19 connection	18-19 Application 1	High School	1	2019
18-19 connection	18-19 Application 1	Middle School	1	2019
18-19 connection	18-19 Application 2	Elementary School	1	2019
18-19 connection	18-19 Application 2	High School	1	2019
18-19 connection	18-19 Application 2	MiddleSchool	1	2019

Ed-Fi Configuration Report

Import Certificates

The Certificate Import Tool allows users to import Certificates needed for Ed-Fi that Campus does not support.

> Self-hosted districts should have the CSM database installed in order to see the upload button in the Campus UI. Managed Services can install the local Campus Agent/Campus Site Manager database on self-hosted districts.



Import Certificates

To import new certificates:

1. Select **Certificates** on the Ed-Fi Configuration screen.
2. Click the **Select File** button.
3. Select the Certificate that will be uploaded.
4. Select **Open.**
5. The selected certificate will be imported and appear in the Uploaded Certificates list. Select **Close.**

To update an expiring certificate:

When a notification is received stating that a certificate is going to expire, please use the following steps to upload a new certificate:

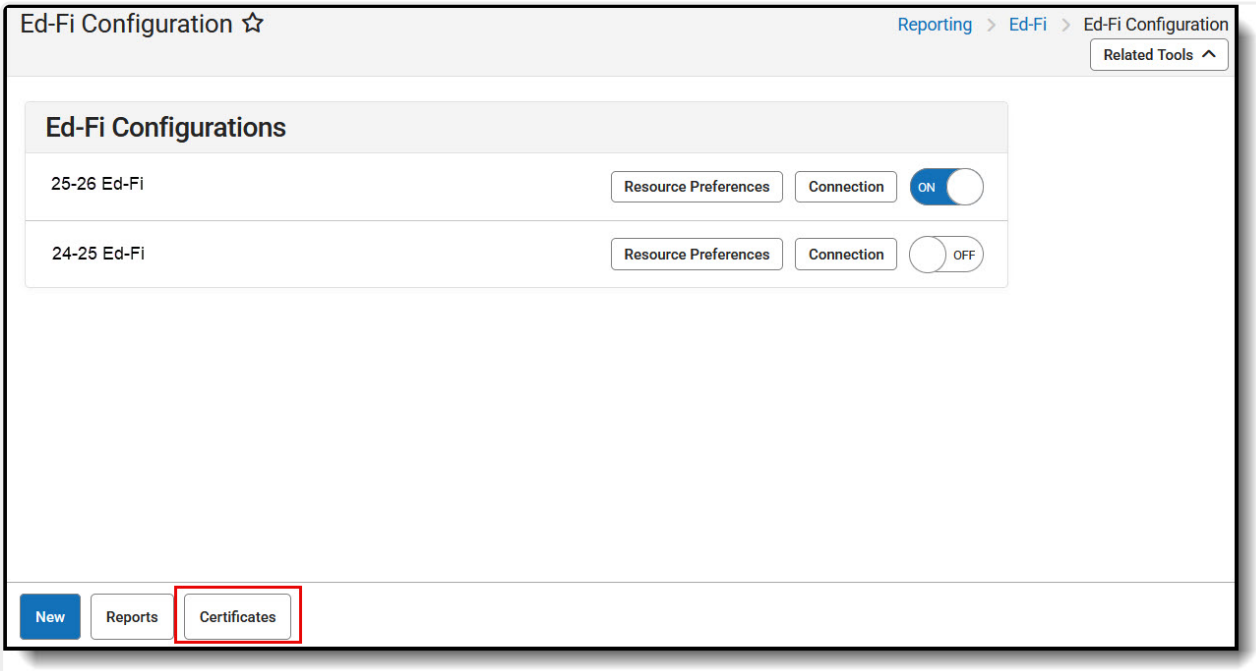
An automated email notification is sent out to all users with tool rights to the Ed-Fi Configurations page on the following days prior to expiration:

- 14 Days
- 7 Days
- 3 Days
- 2 Days
- 1 Day

The message that is sent out is:

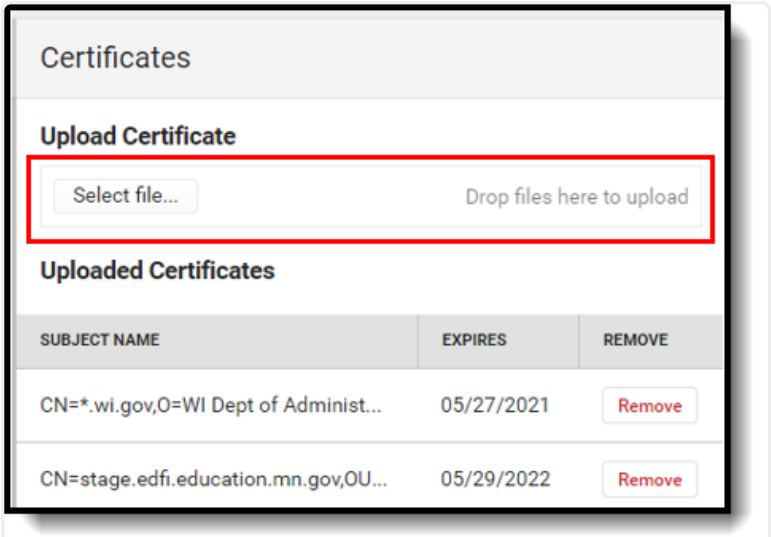
An Ed-Fi certificate is expiring or has expired. To avoid any disruption in service, click on the notification or go to Ed-Fi Configuration to upload a new certificate. To stop receiving these notifications, delete these expiring or expired certificates.

- **If you have a new certificate to replace the expiring certificate:**



Certificates button

1. Navigate to Reporting > Ed-Fi > Ed-Fi Configuration. Select the **Certificates** button.



Select File

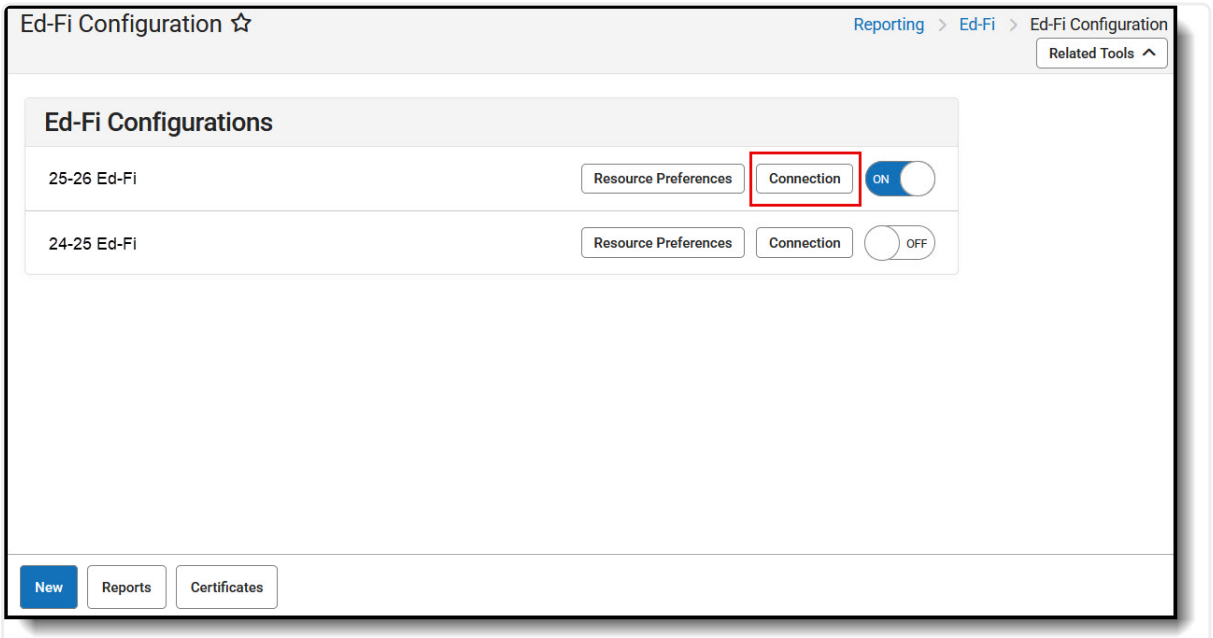
2. Upload the new certificate by clicking on **Select file** and selecting the proper file.



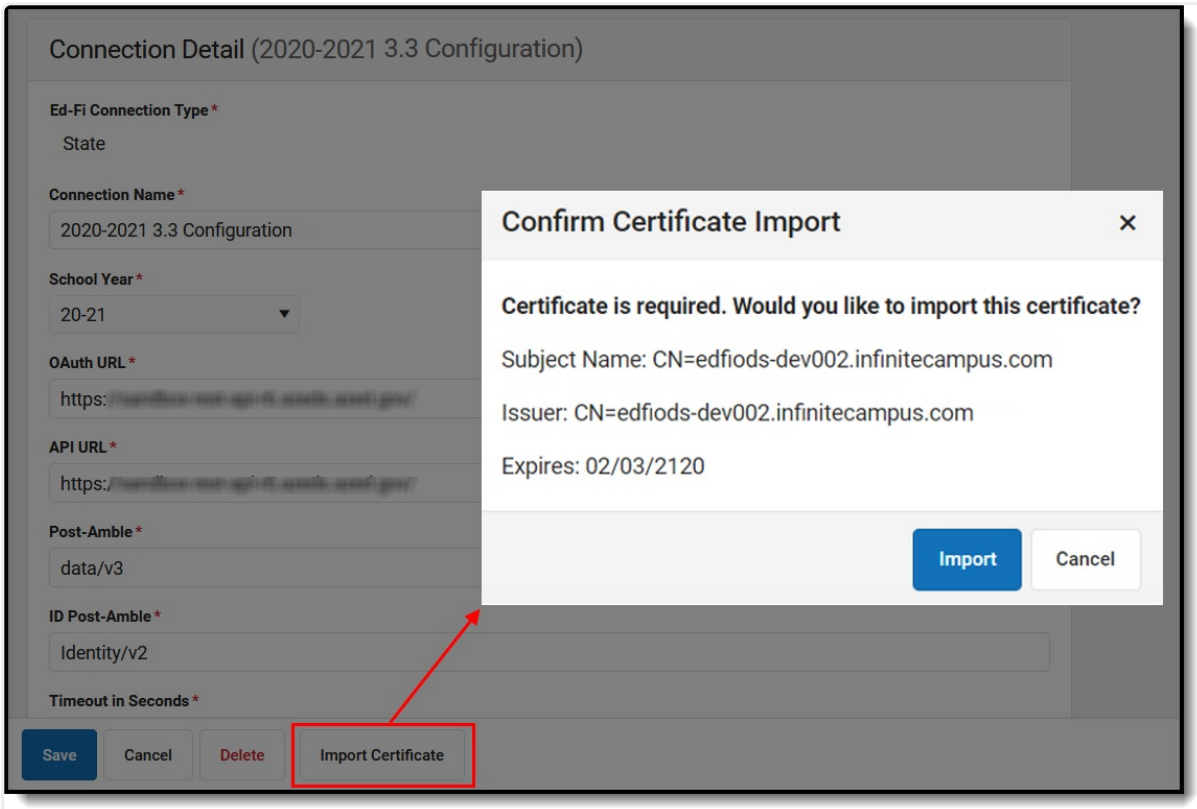
Remove Certificate

3. Remove the expiring or expired certificate from the Uploaded Certificates section by selecting **Remove**. Removing the expired certificate will stop expiration notifications.

- **If you do not have a new certificate and are connected to an external ODS that will provide the certificate:**



1. Navigate to Reporting > Ed-Fi > Ed-Fi Configuration. Select the configuration with the expiring certificate and click **Connection**.



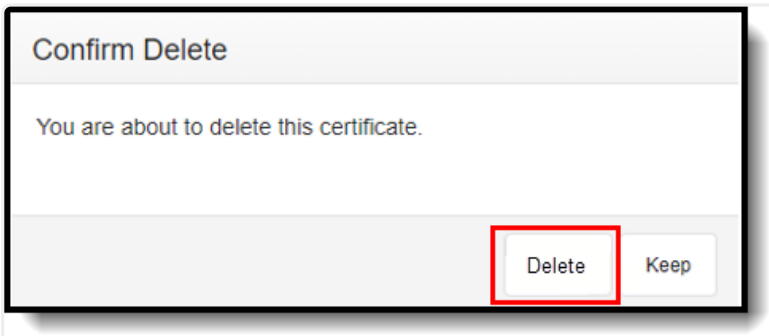
Import Certificate

2. Click the **Import Certificate** button.
   (Please note that if the certificate is available to be uploaded, the Confirm Certificate Import dialog box will display by clicking Test Connection on Connection Credentials as well)
3. If a certificate is returned, confirm you would like to import the certificate. Review the text and verify it looks like a certificate from the source managing the ODS. Confirm by clicking **Import**.
4. Once the import is confirmed, a green notification displays stating 'The certificate has been successfully imported'.
5. If you receive a message saying 'Certificate is already installed', this means the ODS you are connecting to does not yet have an updated certificate. If your certificate is not yet expired, you may need to come back and try again closer to when it expires. If your certificate is expired already, you should contact whomever is managing the ODS (the Department of Education for your state if you are using the Ed-Fi connection for state reporting).
6. If there is an Error while importing the certificate, a red error notification displays. If this occurs, please contact Campus Support.



Remove Certificate

7. Once the updated certificate has been imported, remove the expiring certificate by navigating to Reporting > Ed-Fi > Configuration > Certificates and selecting **Remove**. Removing the old certificate will stop the expiration notifications.



Delete Certificate

8. Confirm the delete by clicking **Delete**.

Next Steps

Now that Ed-Fi has been configured and verified to be working correctly, the following steps can now be taken:

- Ed-Fi data resources need to be established via the Resource Preferences. For more information regarding the Ed-Fi Resource Preferences, please view the Resource Preferences article.
- Make sure all Staff and Student's have a valid ID in the field identified for the Ed-Fi unique identifier.