

# Ed-Fi Connection Configuration (Missouri)

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The Connection Config tool is used to establish a data connection between Campus and the Ed-Fi system. Once a successful connection is made, Resource Preferences are selected, and Ed-Fi ID's are assigned to users, data flows properly from Campus to Ed-Fi.

This document is specific to Missouri for establishing the Ed-Fi Connection Configuration.

### Connection Detail (23-24)

**Ed-Fi Connection Type \***  
State

**Connection Name \***

**School Year \***

**OAuth URL \***

**API URL \***

**Post-Amble \***

**Timeout in Seconds \***

**Connection Credentials**  
**Add Multiple Credentials**  
 Turn this feature on if more than 1 Key and Secret is required for this School Year.  
 OFF

**Client Key \***

**Client Secret \***

*Ed-Fi Configuration Connection Details*

**Read** - N/A

**Write** - Modify and save Ed-Fi Connection Configurations.\*

**Add** - Add new Ed-Fi Connection Configurations.

**Delete** - Delete Ed-Fi Connection Configurations.

\*Both **Read** and **Write** tool rights are needed to edit and save configurations. For additional information, see this [Tool Rights](#) article.

## Prerequisites

Ed-Fi functionality must be enabled via the [Enable Ed-Fi System Preference](#).

# Ed-Fi Configuration Logic

Ed-Fi Configuration values are supplied by the State and should be coordinated with Campus in order to ensure the connection between Campus and Ed-Fi is working correctly. When information provided by your state does not make a successful connection, work with Campus Support to troubleshoot your issues.

When incorrect values are entered and saved, syncing between Campus and Ed-Fi is disabled and any attempts at syncing data result in unprocessed events within the event queue.

## Scope Year Logic

- Districts need to create a new connection each year when the state opens the ODS for a given school year.
- When the state closes a connection for a previous year, the previous years configuration should be deleted.
- It is possible to have multiple years connected at the same time.

## Ed-Fi Configuration Fields

Field	Description
<b>Ed-Fi Connection Type</b>	Options include either Core or State. For Missouri, State should be used when creating a new connection.
<b>Connection Name</b> <i>Current: 23-24</i>	The unique name given to the connection.
<b>School Year</b> <i>Current: 23-24</i>	The school year scoped for the configuration values entered.  Start Date and End Date values should be entered for the school year in the <a href="#">School Years editor</a> . 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).
<b>O-Auth URL</b>	The base URL of the endpoint to retrieve an OAuth Token. Current: <a href="https://k12sandbox-apidata-dev.dese.mo.gov/">https://k12sandbox-apidata-dev.dese.mo.gov/</a>
<b>API URL</b>	The base URL of the API. Current: <a href="https://k12sandbox-apidata-dev.dese.mo.gov/">https://k12sandbox-apidata-dev.dese.mo.gov/</a>

Field	Description
<b>Post-Amble</b> <i>Current: data/v3</i>	<p>The URL for Ed-Fi resources and Ed-Fi Identities is generally different, so this parameter is used to store the URL segment for resources (this is appended on to the API URL).</p> <p>This value will need to be updated for each new connection created in this tool.</p> <p>This field controls what year's ODS the connection is pointing to. Enter the End Year of the Scope Year for this connection.</p> <p>Use the following formula to fill in the Post-Amble. When the Ed-Fi Version has not changed, it can be left the same as the previous year. Each new school year will require the End Year of the scope year to be entered on the configuration.</p>
<b>Timeout in Seconds</b>	<p>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.</p> <p>This field is defaulted to a value of 60 seconds but can be modified.</p>
<b>Add Multiple Credentials</b>	<p>Used when more than one Key and Secret is required for this school year.</p>
<b>Client Key</b>	<p>The client key. There could be multiple APIs attached to one given URL. They are demarcated based on a key.</p>
<b>Client Secret</b>	<p>The secret that goes along with the above key. This is used to generate the OAuth token.</p>
<b>Test Connection</b>	<p>Click the <b>Test Connection</b> button to ensure configuration values are correct and a connection to Ed-Fi is made. When a proper connection is made, a message saying "Connection is Valid" displays.</p>

## Enter Ed-Fi Configuration

1. Click the **Connection** button. The Configuration Detail editor displays.
2. Select an **Ed-Fi Connection Type**.
3. Enter the **Connection Name**.
4. Select the **School Year**.
5. Enter the **O-Auth URL**.
6. Enter the **API URL**.
7. Enter the **Post-Amble**.
8. Enter the **Timeout in Seconds** (or leave the default value of 60).
9. Toggle the **Add Multiple Credentials** option, when applicable.
10. Enter the **Client Key**.

11. Enter the **Client Secret**.
12. Select the **Save** button.
13. Click the **Test Connection** button to ensure configuration values were correct and a connection to Ed-Fi was made. If a proper connection is made, a message saying "Connection is Valid" displays.

## 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](#) tool.
  - Ed-Fi data can be monitored for errors and manually synced via [Ed-Fi Tools](#).
  - Ed-Fi IDs can be assigned to users via the [Demographics](#) tool.
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