

# Using the Online Documentation

Online documentation for the Ed-Fi ODS / API is available through Swagger UI, which is a visual and interactive documentation suite providing detailed descriptions for each resource as well as a simple way to test calls to the API in sandbox environments.

## Gaining Access to the Documentation

Before using the Swagger documentation interface, you must get authorized access to the system. The as-shipped Ed-Fi ODS / API documentation auto-fills the necessary authorization information for you — but some implementers prefer to disable this feature, so you may need to acquire an API key and secret assigned by an ODS / API platform administrator.

Once you select a section (e.g., Resources, Enrollment) from the main Swagger page, you will see an "Authorize" button.



Figure 1. Authorize button

Not surprisingly, clicking the Authorize button opens the authorization dialog. If the API key and API secret fields are already filled in, simply click "Authorize." If not, use a key and secret provided to you by the ODS / API platform administrator.

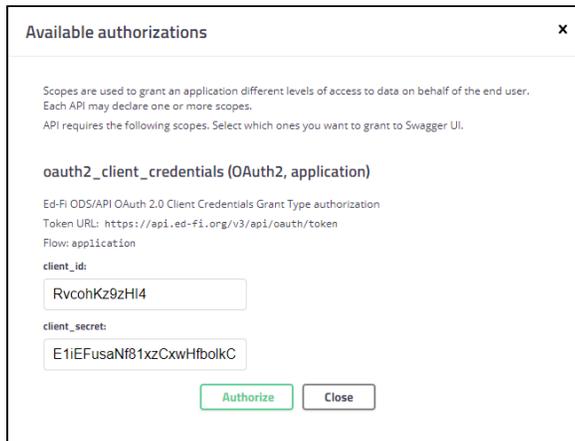


Figure 2. Swagger authorization dialog showing auto-filled values

Authorizing will provide you with a temporary access token. This access token is used by the Swagger user interface while making calls on your behalf to the Ed-Fi ODS / API.

## Browsing All Resources

Because there are many resources exposed through the Ed-Fi ODS / API, they are categorized into separate sections in Swagger for easier browsing. The sections are Resources, Descriptors, Types, Other, Composites, and Profiles. The resources exposed are, generally speaking, representative of entities from the Ed-Fi data model. This means that the entities will share names, organizations, and definitions across all parts of the [Ed-Fi Data Standard](#), including the Ed-Fi XSD and the Ed-Fi ODS / API.

Detail follows about the API documentation sections.

### Resources

The Resources section is for main Ed-Fi API elements such as student, school, grade, and assessment. Each resource in this section maps one-to-one with Ed-Fi entities except for the domain aggregates. These domain aggregates have been created to wrap closely related entities into a single entity. `Students` and `studentAssessments` are examples of domain aggregates.

### Descriptors

#### Links

The Ed-Fi Alliance hosts a sandbox version of the documentation you can explore:

[Ed-Fi ODS / API Sandbox Documentation](#)

The Descriptors sections represent the Ed-Fi Descriptors (e.g., `academicSubjectDescriptors`, `accommodationDescriptors`) from the Ed-Fi data model.

## Other

The Other section contains functional resources that aren't part of the data model. In the as-shipped solution, these resources include operations related to identity management and bulk uploads.

## Composites

Composites are read-only combinations of resources that address specific business use cases. Using composites reduces the number of calls that an API client application must make to retrieve resources for these use cases.

For example, the Enrollment composite can return all the students in a given class section or all students associated with a particular staff member in a compact way.

## Profiles

If the ODS / API platform host has enabled API profiles, you will see them listed with the other API Sections. Profiles are used by platform hosts to restrict access to properties of a resource. Resource properties may be read-write, read-only, or hidden from use by certain client applications. When API client applications use a profile to access resources, they are limited to a subset of the properties available on the underlying resource.

For example, an assessment system might have read-only access to students and read-write access to other information in the assessment domain.

## Viewing an Individual Resource

When expanding a resource, you will see that each resource is broken into sections based on the verbs supported.

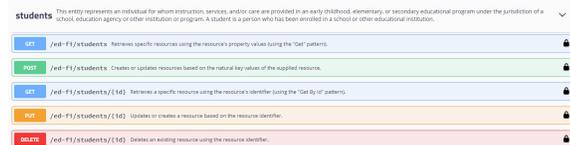


Figure 3. Supported verbs for the `students` resource

## Model vs. Example Value

When the documentation for a GET operation is expanded, you will see the Example Value and Model options. The Model shows the type and description for each element within the resource. The Example Value shows an example of the JSON representation for the resource.

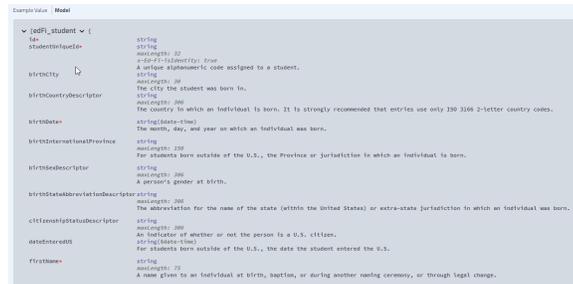


Figure 4. The Model schema for the `students` resource

## Performing a Read and Write

To perform a read and write to the Ed-Fi ODS / API through the documentation UI, choose a resource and execute a GET that uses a "Get" pattern by clicking the "Try it out" button. Then scroll down past the Parameters section and click the "Execute" button.

