

NE Ed-Fi Suite v7.3, Data Standard v5.2: Staff Section Associations

Table of Contents

- [Summary](#)
- [Object Triggering Logic](#)
- [Required Resources \(Upstream\)](#)
- [Dependent Resources \(Downstream\)](#)
- [Error Log](#)
- [Object Data Elements Logic](#)
- [Appendix](#)

Summary

This association indicates the class sections to which a staff member is assigned.

Object Triggering Logic

| Action | Business Rule(s) |
|--------|------------------|
|--------|------------------|

Post

Report a record when the Person is added to Section Staff History in a Section that overlaps the configured year **AND** has a Staff Type of P (Primary Teacher) in Section Staff History table

- One record will report per eligible Sessions record attributed to the Section/Staff History Dates.
- When a Role mapped to an Ed-Fi code is added to an existing teacher on the Staff History Record
- A record is only reported for Section Staff Histories in the same School Year as the Ed-Fi Connection sending the record.
 - Only post for session names where the start date of the term is on or before the section staff history end date or the section staff history end date is null.
 - Only post for session names where the end date of the term is on or after the section staff history start date or the section staff history start date is null.
 - School Year dates are defined in School Year Setup.
 - If Start Date is NULL, 07/01/StartYear will be used.
 - If End Date is NULL, 06/30/EndYear will be used.
- Do not report a record if the any of the following exclusions are present:
 - Person has a NULL Ed-Fi ID or Teacher Override Value
 - Course Inactive or marked as state exclude
 - District Assignment Exclude
 - District Assignment dates do not overlap Section dates
 - Calendar Exclude
 - School Exclude

Delete/Post

Put

A DELETE / POST will be performed if the data element being altered is part of the resource's natural key. A PUT will be performed otherwise.

- When any of the following information is changed on District Assignment:
 - District Assignment ID (New District Assignment)
 - Start Date
 - End Date
 - Exclude
- When any of the following information is changed on Section Staff History:
 - Section Staff History ID (New Section Staff History)
 - Start Date
 - End Date
 - Role
 - Staff Type
- Changes to Resource Preferences mappings **do NOT trigger**. A manual resync must be performed on the resource if mappings are changed.

Delete

- When the Role changes to NULL or a value that is not mapped to an Ed-Fi Code.
- When the Section Staff History record is deleted.
- When the District Assignment is deleted.
- When the District Assignment dates are changed to no longer overlap the configured year.
- When the Person is now excluded in some way.
- When a record is in the Ed-Fi Identity Mapping Report but cannot be found on the Campus site.

Required Resources (Upstream)

The following resources must be sent prior to this resource:

- Staffs
- Sections

Dependent Resources (Downstream)

The following resources are dependent on this resource (must be sent after this resource):

- N/A

Error Log

The following are potential Tier 1 (Ed-Fi API generated) or custom (Campus generated) errors you may receive when posting, updating, or deleting this resource. Please keep in mind that the "Error Message" below may not match your exact error message.

| Error Message | Possible Causes / How to Fix |
|--|---|
| 400: Validation of ' RESOURCE ' failed. FIELD is required. | An element of the JSON that is required is missing and needs to be added. <ul style="list-style-type: none"> • Double check that all bolded data elements below are reporting a valid value and no data elements below are reporting an invalid value. |



| | |
|--|---|
| <p>400: 'RESOURCE' failed. RESOURCE reference could not be resolved.</p> | <p>A resource that was referenced from a difference resource does not yet exist.</p> <ul style="list-style-type: none"> • Resync the resource being mentioned in the error, then resync the errored resource. Alternatively, the resource being referenced may be incorrect. This can happen with Schools and the Ed-Fi School ID being used as an example. Double check the referenced values being sent are valid. |
| <p>403: Authorization denied. The claim does not have any established relationships with the requested resource.</p> | <p>The key/secret being used does not have permission to send a record for the resource / referenced resource.</p> <ul style="list-style-type: none"> • Double check your API credentials (key/secret). Sometimes specific keys/secrets cannot report specific resources. • The referenced person (student, staff, parent, contact, etc.) has not yet been associated to the key/secret. Resync their "linking" resource (Students → Student School Associations, Staffs → Staff Education Organization Assignment Associations, etc.) then resync the errored resource. • The referenced person (student, staff, parent, contact, etc.) may not exist in the ODS yet. Resync the "person" resource and the "linking" resource (Students → Student School Associations, Staffs → Staff Education Organization Assignment Associations, etc.) then resync the errored resource. |
| <p>404: Failed to delete 'RESOURCE'. Record does not exist.</p> | <p>The attempt to delete a specific Ed-Fi record ID in the ODS failed because it did not exist.</p> <ul style="list-style-type: none"> • This error can be ignored. The ID was cleared from the Ed-Fi Identity Mapping Report and will not attempt to delete again. |

409: A natural key conflict occurred when attempting to create a new resource '**RESOURCE**' with a duplicate key.

The Ed-Fi API has a natural key system alongside a standard REST ID system. This error is often protecting against the erroneous creation of a duplicate record in the API. However, it may also indicate that the natural key requirements of the Ed-Fi API have not been satisfied, and the key needs to be modified.

- Check for duplicate data in your Campus site. If no duplicate data can be found, report the issue to Campus Support.
 - This can be caused by numerous issues. Our code may be attempting to send duplicate records when it should not. The natural key (bolded fields below) may not be unique enough to satisfy Ed-Fi requirements in all cases. Most times this error will require a code change to fix.

409: The resource (or a subordinate entity of the resource) cannot be deleted because it is a dependency of the '**RESOURCE**' entity.

The resource that the application is attempting to delete is referenced from another entity.

- Use the Delete Tool to delete the referenced resource in the error message. Then retry the delete on the original resource that errored.

500: Internal Server Error.

Something unexpected happened and no specific error message could be returned.

- This issue usually occurs when the ODS is having issues. Confirm that there are no issues with the ODS the data is being sent to and then attempt to retry the errored record.
- Contact Campus Support if 500 errors continue to occur, can be replicated consistently, and the ODS the data is being sent to has no ongoing issues.
 - There is a chance that Campus Ed-Fi code is sending an invalid JSON request resulting in the 500 error.
 - There is a chance that an Ed-Fi Data Standard / API bug is causing the issue.
 - Investigation is needed in these cases as there are many different potential causes.



Object Data Elements Logic

Data element labels below in **BOLD** are part of the natural key of this resource and are required data elements for the record to send through Ed-Fi.

- The Mandatory / Conditional / Optional column indicates what the state requires for each data element. For Core Ed-Fi connections, it indicates what the data standard requires for each data element.

| | Data Element Label | Business Rule(s) | Mandatory (M) Conditional (C) Optional (O) | Data Source GUI Path | Database Field | Uses Template Logic (✓ / ✗ / EXT) |
|---|--|---|--|---|-----------------------------------|--------------------------------------|
| 1 | sectionReference (reference) | <p>A reference to the Sections resource associated with the Staff Section Association being reported.</p> <hr/> <p>Reports the fields that are part of the Natural Key for the Sections source.</p> | M | N/A | N/A | ✓ |
| 2 | staffReference (reference) | <p>A reference to the Staffs resource associated with the Staff Section Association being reported.</p> <hr/> <p>Reports the fields that are part of the Natural Key for the Staffs resource.</p> <ol style="list-style-type: none"> 1. Report the Primary teacher (staffType = 'P') on the Section Staff History as the "Teacher of Record" 2. If a Primary teacher does not exist on Section Staff History , do not send record. | M | Section > Staff History > Primary Teacher | Sectionstaffhistory.s taffType | |

| | | | | | | |
|---|--------------------------------------|---|---|--|--|---|
| 3 | beginDate (date) | <p>Month, day, and year of a teacher's assignment to the section. If blank, defaults to the first day of the first grading period for the section.</p> <hr/> <p>Reports the Staff History Start Date</p> <ul style="list-style-type: none"> • Reports the latest of the Term Start Date or the District Assignment Start Date if the Staff History Start Date is NULL. (Core Logic) | O | Section Staff History District Assignment Calendar | SectionStaffHistory .startDate EmploymentAssignment .startDate Term .startDate |  |
| 4 | classroomPositionDescriptor (string) | <p>The type of position the staff member holds in the specific class/section.</p> <hr/> <p>1. If Section Staff History Staff Type is P (Primary Teacher) = always send Classroom Position 01 (hardcoded).</p> <ol style="list-style-type: none"> Send one "Teacher of Record" descriptor per course section corresponding to the Primary Teacher reported in staffReference. do not send a Staff Section Association Record when Teacher Role is set to 'XX: Not State Reported' <p>2. If Staff Section Role is T(Teacher) or SS (Section Staff) only send if Staff Type has a Teacher Role that is mapped to an Ed-Fi Classroom Position Descriptor in the Resource Preferences, else do not report</p> | M | Section Staff History | SectionStaffHistory .role |  |

| | | | | | | |
|---|---------------------------------|--|---|--|--|-----|
| 5 | endDate (date) | <p>Month, day, and year of the last day of a staff member's assignment to the section.</p> <hr/> <p>Reports the Staff History End Date</p> <ul style="list-style-type: none"> • Reports the earliest of the Term End Date or the District Assignment End Date if the Staff History End Date is NULL. | O | Section Staff History District Assignment Calendar | SectionStaffHistory .endDate EmploymentAssignment .endDate Term .endDate | ✔ |
| 6 | highlyQualifiedTeacher | This data element is optional and does not report. | O | N/A | N/A | N/A |
| 7 | percentageContribution | This data element is optional and does not report. | O | N/A | N/A | N/A |
| 8 | teacherStudentDataLinkExclusion | This data element is optional and does not report. | O | N/A | N/A | N/A |



Appendix