

# MN Ed-Fi Suite v3.5.2, Data Standard v3.3.0-a: Staff Section Associations

# MN Ed-Fi Suite v3.5.2, Data Standard v3.3.0-a: 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	<p>Report a record when the Person is added to Section Staff History in a Section that overlaps the configured year <b>AND</b> has a Staff Type of P (Primary Teacher) or T (Teacher) <b>AND</b> has a Role that is mapped to an Ed-Fi Code in Resource Preferences for the Staff Section Associations resource.</p> <ul style="list-style-type: none"> <li>• One record will report per eligible Sessions record attributed to the Section/Staff History Dates.</li> <li>• A record will only be reported for the <b>TEACHER OF RECORD</b> for the Section. The scenarios that can report are summarized below: <ul style="list-style-type: none"> <li>◦ Primary Teacher with a Role of <i>TR: Teacher of Record</i>.</li> <li>◦ Primary Teacher without a Role when there are no other Primary Teachers or Teachers with a Role of <i>TR: Teacher of Record</i>.</li> <li>◦ Teacher with a Role of <i>TR: Teacher of Record</i> when there is no Primary Teacher with a role of <i>TR: Teacher of Record</i>.</li> <li>◦ Teacher without a Role when there are no other Primary Teachers or Teachers.</li> </ul> </li> <li>• A record is only reported for Section Staff Histories in the same School Year as the Ed-Fi Connection sending the record. <ul style="list-style-type: none"> <li>◦ School Year dates are defined in School Year Setup. <ul style="list-style-type: none"> <li>▪ If Start Date is NULL, 07/01/StartYear will be used.</li> <li>▪ If End Date is NULL, 06/30/EndYear will be used.</li> </ul> </li> </ul> </li> <li>• Do not report a record if the any of the following exclusions are present: <ul style="list-style-type: none"> <li>◦ Person has a NULL Staff Unique ID (whatever field is being used for the staffUniqueid data element).</li> <li>◦ Course Inactive</li> <li>◦ Course State Exclude</li> <li>◦ District Assignment Exclude <b>AND</b> District Employment <b>NOT</b> District Staff <ul style="list-style-type: none"> <li>▪ If only one of these is true but not both, then the record will report and <b>NOT</b> be excluded</li> </ul> </li> <li>◦ District Assignment dates do not overlap Section dates</li> <li>◦ Calendar Exclude</li> <li>◦ Calendar MCCC Exclude</li> <li>◦ School Exclude</li> </ul> </li> </ul>
------	---

Delete /Post  Put	<p>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.</p> <ul style="list-style-type: none"> <li>• When any of the following information is changed on District Assignment: <ul style="list-style-type: none"> <li>◦ District Assignment ID (New District Assignment)</li> <li>◦ Assignment Code</li> <li>◦ Start Date</li> <li>◦ End Date</li> <li>◦ Exclude</li> </ul> </li> <li>• When any of the following information is changed on Section Staff History: <ul style="list-style-type: none"> <li>◦ Section Staff History ID (New Section Staff History)</li> <li>◦ Start Date</li> <li>◦ End Date</li> <li>◦ Role</li> <li>◦ Staff Type</li> </ul> </li> <li>• When any of the following information is changed on the Course: <ul style="list-style-type: none"> <li>◦ Active</li> <li>◦ State Exclude</li> </ul> </li> <li>• Changes to Resource Preferences mappings <b>do NOT trigger</b>. A manual resync must be performed on the resource if mappings are changed.</li> </ul>
Delete	<ul style="list-style-type: none"> <li>• When the Role changes to NULL or a value that is not mapped to an Ed-Fi Code.</li> <li>• When the Section Staff History record is deleted.</li> <li>• When the District Assignment is deleted.</li> <li>• When the District Assignment dates are changed to no longer overlap the configured year.</li> <li>• When the Person is now excluded in some way.</li> <li>• When a record is in the Ed-Fi Identity Mapping Report but cannot be found on the Campus site.</li> </ul>

## Required Resources (Upstream)

The following resources must be sent prior to this resource:

- Staffs (Pre-populated)
- 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 ' <b>RESOURCE</b> ' failed. <b>FIELD</b> is required.	An element of the JSON that is required is missing and needs to be added. <ul style="list-style-type: none"><li>• Double check that all bolded data elements below are reporting a valid value and no data elements below are reporting an invalid value.</li></ul>
400: ' <b>RESOURCE</b> ' failed. <b>RESOURCE</b> reference could not be resolved.	A resource that was referenced from a difference resource does not yet exist. <ul style="list-style-type: none"><li>• 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.</li></ul>

<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"> <li>• Double check your API credentials (key/secret). Sometimes specific keys/secrets cannot report specific resources.</li> <li>• 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.</li> <li>• 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.</li> </ul>
<p>404: Failed to delete '<b>RESOURCE</b>'. 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"> <li>• This error can be ignored. The ID was cleared from the Ed-Fi Identity Mapping Report and will not attempt to delete again.</li> </ul>
<p>409: A natural key conflict occurred when attempting to create a new resource '<b>RESOURCE</b>' with a duplicate key.</p>	<p>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.</p> <ul style="list-style-type: none"> <li>• Check for duplicate data in your Campus site. If no duplicate data can be found, report the issue to Campus Support. <ul style="list-style-type: none"> <li>◦ 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.</li> </ul> </li> </ul>
<p>409: The resource (or a subordinate entity of the resource) cannot be deleted because it is a dependency of the '<b>RESOURCE</b>' entity.</p>	<p>The resource that the application is attempting to delete is referenced from another entity.</p> <ul style="list-style-type: none"> <li>• Use the Delete Tool to delete the referenced resource in the error message. Then retry the delete on the original resource that errored.</li> </ul>

500: Internal Server Error.	<p>Something unexpected happened and no specific error message could be returned.</p> <ul style="list-style-type: none"> <li>• 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.</li> <li>• 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. <ul style="list-style-type: none"> <li>◦ There is a chance that Campus Ed-Fi code is sending an invalid JSON request resulting in the 500 error.</li> <li>◦ There is a chance that an Ed-Fi Data Standard / API bug is causing the issue.</li> <li>◦ Investigation is needed in these cases as there are many different potential causes.</li> </ul> </li> </ul>
-----------------------------	--


## 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	<b>sectionReference</b> ( reference)	<p><i>A reference to the Sections resource associated with the Staff Section Association being reported.</i></p> <hr/> <p>Reports the fields that are part of the Natural Key for the Sections source.</p>	M	N/A	N/A	✓



2	<b>staffReference</b> ( <i>reference</i> )	<p><i>A reference to the Staffs resource associated with the Staff Section Association being reported.</i></p> <hr/> <p>Reports the fields that are part of the Natural Key for the Staffs resource.</p> <ul style="list-style-type: none"> <li>• staffUniqueld <ul style="list-style-type: none"> <li>○ Reports the <b>License Number</b> from the District Employment with the most recent Start Date that has a value for License Number.</li> <li>○ If no License Number can be found (or the District is using the HR Module), report the <b>License Number</b> from the Credential with the most recent Start Date that has a Credential Type of <i>LC: Licensure/Certification</i> <b>AND</b> has a value for License Number.</li> </ul> </li> </ul>	M	District Employment  Credentials	Employment . licenseNumber  EmploymentCredential .licenseNumber	
---	--	---	---	---	---	---

3	classroomPositionDescriptor (string)	<p><i>The type of position the staff member holds in the specific class/section.</i></p> <hr/> <p>Reports the Ed-Fi Code mapped to the value selected for <b>Role</b>.</p> <ul style="list-style-type: none"> <li>• This mapping can be found in the Resource Preferences of the Ed-Fi Connection under the Staff Section Associations resource.</li> <li>• If Role is NULL, reports the Ed-Fi Code mapped to the value selected for the default value of <b>Role</b>.</li> <li>• If the default value is NULL, reports <b>TR</b> (Teacher of Record).</li> </ul>	M	Section Staff History	SectionStaffHistory . role	✕
4	beginDate	This data element is optional and does not report.	O	N/A	N/A	✕
5	endDate	This data element is optional and does not report.	O	N/A	N/A	✕
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	teacherStudent DataLinkExclusion	This data element is optional and does not report.	O	N/A	N/A	N/A

## Appendix