

# **MN Ed-Fi Suite v3.5.2, Data Standard v3.3.0-a: Student Early Education Program Associations**

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# MN Ed-Fi Suite v3.5.2, Data Standard v3.3.0-a: Student Early Education Program Associations

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## Summary

This association represents Students in an Early Education Program.

## Object Triggering Logic

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

|      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
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| Post | <p>Reports a record when a Early Education record is saved and overlaps the configured year <b>AND</b> the Early Education record's End Date is NULL or within the configured year <b>AND</b> the associated student has an enrollment with a Grade Level mapped to the Ed-Fi Code <i>EE: Early Education</i> in the configured year.</p> <ul style="list-style-type: none"> <li>• Early Education program records are entered for students on the Early Education tab.</li> <li>• A record is only reported for Early Education records and Enrollments 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>◦ Enrollment No Show</li> <li>◦ Enrollment State Exclude</li> <li>◦ Enrollment Grade Level Exclude</li> <li>◦ Calendar Exclude</li> <li>◦ School Exclude</li> <li>◦ Early Education School has a value that does <b>NOT</b> match the Enrollment School</li> </ul> </li> </ul> |
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| Delete<br>/Post<br><br>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 Enrollments: <ul style="list-style-type: none"> <li>Enrollment ID (New Enrollment)</li> <li>Start Date</li> <li>End Date</li> <li>No Show</li> <li>Service Type</li> <li>Percent Enrolled</li> <li>Grade</li> </ul> </li> <li>When any of the following information is changed on Early Education records: <ul style="list-style-type: none"> <li>Early Education ID (New Early Education record)</li> <li>Start Date</li> <li>End Date</li> <li>Exit Reason</li> <li>Program Name</li> <li>Program Section</li> <li>Served Outside of Regular Session</li> <li>Service Membership Hours</li> <li>Service Attendance Hours</li> <li>Funding Source</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 associated Enrollment is deleted.</li> <li>When the associated Enrollment is made to no longer overlap the configured year.</li> <li>When the associated Student is now excluded in some way.</li> <li>When the Early Education record is deleted.</li> <li>When the Early Education record is made to no longer overlap the configured year.</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:

- Local Education Agencies (Pre-populated)
- Students
- Programs (Pre-populated)

## 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> |

|                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
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| <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>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |

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| 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> |
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## 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<br>(M)<br>Conditional<br>(C)<br>Optional<br>(O) | Data Source<br>GUI Path            | Database Field                                         | Uses<br>Template<br>Logic<br><br>(✓ / ✗ /<br>EXT) |
|---|--------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------|------------------------------------|--------------------------------------------------------|---------------------------------------------------|
| 1 | <b>beginDate</b> (date)              | <p><i>The earliest date the student is involved with the program. Typically, this is the date the student becomes eligible for the program.</i></p> <hr/> <p>Reports the latest of the following dates:</p> <ul style="list-style-type: none"> <li><b>Early Education Start Date</b></li> <li><b>Enrollment Start Date</b></li> </ul> | M                                                         | Early Education<br><br>Enrollments | EarlyEducationMN.startDate<br><br>Enrollment.startDate | EXT                                               |
| 2 | <b>calendarReference</b> (reference) | <p><i>A reference to the Calendars resource associated with the Student Early Education Program Association being reported.</i></p> <hr/> <p>Reports the fields that are part of the Natural Key for the Calendars resource.</p>                                                                                                      | M                                                         | N/A                                | N/A                                                    | EXT                                               |



|   |                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |   |     |     |     |
|---|---------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|-----|-----|-----|
| 3 | <b>educationOrganizationReference</b> (reference) | <p><i>A reference to an Education Organization (Schools, Local Education Agencies, etc.) resource associated with the Student Early Education Program Association being reported.</i></p> <hr/> <p>Reports the fields that are part of the Natural Key for the Schools resource.</p> <ul style="list-style-type: none"> <li>• schoolId <ul style="list-style-type: none"> <li>◦ Reports the <b>Ed-Fi School ID</b>.</li> <li>◦ When the Ed-Fi School ID is NULL, reports the concatenation of <b>District Type</b> (strips any leading 0's) + <b>District Number</b> (First 4 characters, 0-padded on left) + <b>State School Number</b> (First 3 characters, 0-padded on left).</li> </ul> </li> </ul>                                                          | M | N/A | N/A | EXT |
| 4 | <b>programReference</b> (reference)               | <p><i>A reference to the Programs resource associated with the Student Early Education Program Association being reported.</i></p> <hr/> <p>Reports the fields that are part of the Natural Key for the Programs resource.</p> <ul style="list-style-type: none"> <li>• educationOrganizationId <ul style="list-style-type: none"> <li>◦ Reports the concatenation of <b>District Type</b> (Removing any leading 0's) + <b>District Number</b> (first 4 characters, 0-padded on left) + <b>000</b>.</li> </ul> </li> <li>• programName <ul style="list-style-type: none"> <li>◦ Reports based on the below table.</li> </ul> </li> <li>• programTypeDescriptor <ul style="list-style-type: none"> <li>◦ Reports based on the below table:</li> </ul> </li> </ul> | M | N/A | N/A | EXT |

| Campus Program Name Code                                       | Program Name | Program Type |
|----------------------------------------------------------------|--------------|--------------|
| 01: School Readiness                                           | EE-SR        | EE-SR        |
| 04: School Readiness/Adult Basic Education                     |              |              |
| 204: Head Start (HS)                                           |              |              |
| 204a: Other School Readiness                                   |              |              |
| 05: Early Education - School Readiness Plus (SR+)              | EE-SR+       | EE-SR+       |
| 06: Early Education - Early Childhood Special Education (ECSE) | EE-ECSE      | EE-ECSE      |
| 07: Early Education - Voluntary PreKindergarten (VPK)          | EE-VPK       | EE-VPK       |

|   |                                     |                                                                                                                                                                                                                                                                                                                                          |   |                                    |                                                             |     |
|---|-------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|------------------------------------|-------------------------------------------------------------|-----|
|   |                                     | <div> All other codes<br/>(default option) EE-ECFE EE-ECFE </div>                                                                                                                                                                                                                                                                        |   |                                    |                                                             |     |
| 5 | <b>studentReference</b> (reference) | <p><i>A reference to the Students resource associated with the Student Early Education Program Association being reported.</i></p> <hr/> <p>Reports the fields that are part of the Natural Key for the Students resource.</p>                                                                                                           | M | N/A                                | N/A                                                         | EXT |
| 6 | <b>endDate</b> (date)               | <p><i>The month, day, and year on which the student exited the program or stopped receiving services.</i></p> <hr/> <p>Reports the earliest of the following dates. Does not report if all dates are NULL:</p> <ul style="list-style-type: none"> <li>• <b>Early Education End Date</b></li> <li>• <b>Enrollment End Date</b></li> </ul> | C | Early Education<br><br>Enrollments | EarlyEducationMN<br>.endDate<br><br>Enrollment .<br>endDate | EXT |

|   |                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |   |                 |                                |     |
|---|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|-----------------|--------------------------------|-----|
| 7 | fundingSources (array) | <p><i>An unordered collection of studentEarly EducationProgram AssociationFunding Sources. Funding source.</i></p> <hr/> <p>Reports the following data elements in an array:</p> <ul style="list-style-type: none"> <li>• fundingSourceDescriptor <ul style="list-style-type: none"> <li>◦ Reports the Ed-Fi Code mapped to the value (s) selected for <b>Funding Source</b>. <ul style="list-style-type: none"> <li>▪ Each unique Ed-Fi Code associated to the Funding Sources entered will report under this array.</li> <li>▪ This mapping can be found in the Resource Preferences of the Ed-Fi Connection under the Student Early Education Program Associations resource.</li> </ul> </li> </ul> </li> </ul> | C | Early Education | EarlyEducationMN.fundingSource | EXT |
|---|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|-----------------|--------------------------------|-----|

|   |                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |   |                                    |                                                                                                             |     |
|---|-----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|------------------------------------|-------------------------------------------------------------------------------------------------------------|-----|
| 8 | memberships (array)               | <p><i>An unordered collection of studentEarly EducationProgram AssociationMemberships. Entity containing Attendance Days or Hours, Membership Days or Hours, Percent Enrolled and flag indicated whether reported Membership and Attendance includes Days or Hours.</i></p> <hr/> <p>Reports the following data elements in an array:</p> <ul style="list-style-type: none"> <li>• membershipAttendanceUnitDescriptor <ul style="list-style-type: none"> <li>◦ Reports <b>Hours</b> if Percent Enrolled is 999.</li> <li>◦ Reports <b>Days</b> in all other situations.</li> </ul> </li> <li>• attendance <ul style="list-style-type: none"> <li>◦ Reports the <b>Service Attendance Hours</b>. <ul style="list-style-type: none"> <li>▪ Reports <b>0</b> when Service Attendance Hours is NULL.</li> </ul> </li> </ul> </li> <li>• membership <ul style="list-style-type: none"> <li>◦ Reports the <b>Service Membership Hours</b>. <ul style="list-style-type: none"> <li>▪ Reports <b>0</b> when Service Membership Hours is NULL.</li> </ul> </li> </ul> </li> <li>• percentEnrolled <ul style="list-style-type: none"> <li>◦ Reports the <b>Percent Enrolled</b>.</li> </ul> </li> </ul> | C | Enrollments<br><br>Early Education | Enrollment .percentEnrolled<br><br>EarlyEducationMN.attendanceHours<br><br>EarlyEducationMN.membershipHours | EXT |
| 9 | programSectionDescriptor (string) | <p><i>Descriptor of the program section.</i></p> <hr/> <p>Reports the Ed-Fi Code mapped to the value selected for <b>Program Section</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 Student Early Education Program Associations resource.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | C | Early Education                    | EarlyEducationMN.programSection                                                                             | EXT |

|    |                                          |                                                                                                                                                                                                                                                                                                                                                                            |   |                 |                                 |     |
|----|------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|-----------------|---------------------------------|-----|
| 10 | reasonExitedDescriptor (string)          | <p><i>The reason the child left the Program within a school or district.</i></p> <hr/> <p>Reports the Ed-Fi Code mapped to the value selected for <b>Exit Reason</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 Student Early Education Program Associations resource.</li> </ul> | C | Early Education | EarlyEducationMN.exitReason     | EXT |
| 11 | servedOutsideOf RegularSession (boolean) | <p><i>Indicates whether the Student received services during the summer session or between sessions.</i></p> <hr/> <ul style="list-style-type: none"> <li>Reports <b>True</b> when <b>Served Outside of Regular Session</b> is checked.</li> <li>Reports <b>False</b> in all other situations.</li> </ul>                                                                  | C | Early Education | EarlyEducationMN.outsideSession | EXT |

## Appendix