

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

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Summary

This association represents Students in the Early Childhood Screening Association Program.

Object Triggering Logic

Action	Business Rule(s)

Post	<p>Reports a record when a Preschool Screener record is saved and overlaps the configured year AND the associated student has an enrollment in the configured year.</p> <ul style="list-style-type: none">• Preschool Screener program records are entered for students on the Preschool Screener tab.• The Preschool Screener program does NOT need to overlap the Enrollment.• A maximum of ONE record will report per Preschool Screener record in Campus.<ul style="list-style-type: none">◦ MDE's system fabricates a MARSS enrollment record with Grade = PK, School = 005, and the MARSS Status Begin/End Dates as the Program Begin Date.◦ Due to this fabrication of enrollments, each record must report ONLY ONCE.• A record is only reported for Preschool Screener records and Enrollments in the same School Year as the Ed-Fi Connection sending the record.<ul style="list-style-type: none">◦ School Year dates are defined in School Year Setup.<ul style="list-style-type: none">▪ 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:<ul style="list-style-type: none">◦ Enrollment No Show◦ Enrollment State Exclude◦ Enrollment Grade Level Exclude◦ Calendar Exclude◦ School Exclude
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Delete /Post	<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">When any of the following information is changed on Enrollments:<ul style="list-style-type: none">Enrollment ID (New Enrollment)Start DateEnd DateNo ShowService TypeWhen any of the following information is changed on Preschool Screener records:<ul style="list-style-type: none">Preschool Screener ID (New Preschool Screener record)Start DateEnd DateLocationScreenerScreener Exit StatusChanges to Resource Preferences mappings do NOT trigger. A manual resync must be performed on the resource if mappings are changed.
Delete	<ul style="list-style-type: none">When the associated Enrollment is deleted.When the associated Enrollment is made to no longer overlap the configured year.When the associated Student is now excluded in some way.When the Preschool Screener record is deleted.When the Preschool Screener record is made to no longer overlap the configured year.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:

- 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 ' 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.
400: ' RESOURCE ' failed. RESOURCE reference could not be resolved.	A resource that was referenced from a difference resource does not yet exist. <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.

403: Authorization denied. The claim does not have any established relationships with the requested resource.	<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.
404: Failed to delete ' RESOURCE '. Record does not exist.	<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.	<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"> 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"> 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.	<p>The resource that the application is attempting to delete is referenced from another entity.</p> <ul style="list-style-type: none"> 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	beginDate (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"> • Early Childhood Start Date • Enrollment Start Date <ul style="list-style-type: none"> ○ This is only used if the student has an Enrollment has the same School as the Preschool Screener's Location. ○ If the student has multiple Enrollments in the same School, they are sorted in priority order: <ul style="list-style-type: none"> ■ Primary > Partial > SPED ■ Latest Enrollment Start Date ■ Latest Enrollment ID 	M	Preschool Screener Enrollments	PreschoolScreener.startDate Enrollment.startDate	EXT

2	educationOrganizationReference <i>(reference)</i>	<p>A reference to an <i>Education Organization</i> (<i>Schools, Local Education Agencies, etc.</i>) resource associated with the <i>Student Early Childhood Screening Program Association</i> being reported.</p> <hr/> <p>Reports the fields that are part of the Natural Key for the <i>Schools</i> resource for the <i>School</i> entered in the Location field on the <i>Preschool Screener</i> record.</p> <ul style="list-style-type: none"> • educationOrganizationId <ul style="list-style-type: none"> ◦ Reports the Ed-Fi School ID. ◦ When the Ed-Fi School ID is NULL, reports the concatenation of District Type (strips any leading 0's) + District Number (First 4 characters, 0-padded on left) + State School Number (First 3 characters, 0-padded on left). 	M	N/A	N/A	EXT
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3	programReference (reference)	<p><i>A reference to the Programs resource associated with the Student Early Childhood Screening 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"> • educationOrganizationId <ul style="list-style-type: none"> ◦ Reports the concatenation of District Type (Removing any leading 0's) + District Number (first 4 characters, 0-padded on left) + 000. • programName <ul style="list-style-type: none"> ◦ Reports EE-ECS (Hard-Coded). • programTypeDescriptor <ul style="list-style-type: none"> ◦ Reports EE-ECS (Hard-Coded). 	M	N/A	N/A	EXT
4	studentReference (reference)	<p><i>A reference to the Students resource associated with the Student Early Childhood Screening 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

5	earlyChildhood ScreenerDescriptor (string)	<p><i>This descriptor contains codes indicating who completed a screening for a student in the Early Childhood Screening program.</i></p> <hr/> <p>Reports the Ed-Fi Code mapped to the value selected for Screener.</p> <ul style="list-style-type: none"> • This mapping can be found in the Resource Preferences of the Ed-Fi Connection under the Student Early Childhood Screening Program Associations resource. 	C	Preschool Screener	PreschoolScreener .screener	EXT
6	earlyChildhood ScreeningExit StatusDescriptor (string)	<p><i>Early Childhood Screening Exit Status.</i></p> <hr/> <p>Reports the Ed-Fi Code mapped to the value selected for Screener Exit Status.</p> <ul style="list-style-type: none"> • This mapping can be found in the Resource Preferences of the Ed-Fi Connection under the Student Early Childhood Screening Program Associations resource. 	C	Preschool Screener	PreschoolScreener .screenerExitStatus	EXT
7	endDate (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>	C	Preschool Screener Enrollments	PreschoolScreener .endDate Enrollment . endDate	EXT

	<ul style="list-style-type: none">• Early Childhood End Date• Enrollment End Date<ul style="list-style-type: none">◦ This is only used if the student has an Enrollment has the same School as the Preschool Screener's Location.◦ If the student has multiple Enrollments in the same School, they are sorted in priority order:<ul style="list-style-type: none">▪ Primary > Partial > SPED▪ Latest Enrollment Start Date▪ Latest Enrollment ID			
<p>Notes:</p> <ul style="list-style-type: none">• When the field being used for endDate is before the calculated beginDate, we will attempt to use the other field (e.g. If EC End Date was used but invalid, we then attempt to use Enrollment End Date. And vice versa.).<ul style="list-style-type: none">◦ If both fields are before the calculated beginDate, we will report the endDate as the same date being used for beginDate.◦ This logic is present to guarantee a valid date range on the record. Without this logic, it is possible to report a record where the endDate is prior to the beginDate.				

Appendix