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# Ed-Fi 3.x Bell Schedule Entity Mapping

## Overview

This document defines the mapping of Aeries data to the Ed-Fi data standard.



**Document Version** 1.0

**Last Updated** 07 Nov 2021

## Status

Ready for v3 certification.

## Description

This entity represents the schedule of class period meeting times.

## Bell Schedule Links

### Mapping v3.2.0-c

<https://mappingedu.ed-fi.org/#!/entity/d9fe6748-e7ba-ea11-80df-005056b36109/info?dataStandardId=7ec6133d-e7ba-ea11-80df-005056b36109>

### Schema v3.2.0-c

<https://schema.ed-fi.org/datahandbook-v320c/#!/BellSchedule543>

### API v3.4.0

<https://api.ed-fi.org/v3.4.0/docs/index.html#/bellSchedules>

### Scenarios v3

<https://techdocs.ed-fi.org/display/EDFICERT/v3+MasterSchedule+%3E+BellSchedule+Scenarios>

## Natural Key

- BellScheduleName
- SchoolId

## Used By

- None

## Mappings

| Parent          | Properties       | Type                           | Required | Table | Field         | Other                                                                                  | Code / Notes                                                            |
|-----------------|------------------|--------------------------------|----------|-------|---------------|----------------------------------------------------------------------------------------|-------------------------------------------------------------------------|
| \               | bellScheduleName | string(60)                     | Identity | BSD   | TY or TI      |                                                                                        | GetString(s("BellScheduleName"))                                        |
| \               | alternateDayName | string(20)                     | Required | BSD   | TI + ' ' + KY | (truncate if > 20 characters)<br><br>substring ( IIF(BSD.TY is null,"", BSD.TI),1,20 ) | GetString(s("AlternateDayName"))                                        |
| \               | classPeriods[]   | List (Of classPeriodReference) | Required |       |               |                                                                                        |                                                                         |
| classPeriods[n] | classPeriodName  | string                         | Required | MST   | PD, BL, DY    |                                                                                        | GetClassPeriodName(s("PD"), s("BL"), s("DY"))<br><br>See function below |
| classPeriods[n] | schoolId         | integer                        | Optional | BSD   | SC            |                                                                                        |                                                                         |
| \               | schoolReference  | Entity                         | Required |       |               |                                                                                        |                                                                         |
| schoolReference | schoolId         | integer                        | Identity | BSD   | SC            |                                                                                        | GetNullableInteger(s("SC"))                                             |

|             |                        |         |          |                   |    |  |                                                   |
|-------------|------------------------|---------|----------|-------------------|----|--|---------------------------------------------------|
| \           | dates                  |         | Optional |                   |    |  |                                                   |
| dates       | date                   | date    | Optional |                   |    |  |                                                   |
| \           | gradeLevels            | Entity  | Optional |                   |    |  |                                                   |
| gradeLevels | gradeLevelDescriptor   | string  | Optional |                   |    |  |                                                   |
| \           | startTime              | time    | Optional | BSD<br>(FTT Flex) | ST |  | MIN() start time from all the related BEL periods |
| \           | endTime                | time    | Optional | BSD<br>(FTT Flex) | ET |  | MAX() end time from all the related BEL periods   |
| \           | totalInstructionalTime | integer | Optional |                   |    |  |                                                   |

## Code

```
Public Shared Function GetClassPeriodName(ByVal period As String, ByVal
block As Integer, ByVal day As String) As String

    'Examples: "FLEXP1, 1 MTWTF", "2-3 MTWTF", "5 MW", "6 A-DAYS"
    Return period & (IIf(block > 1 AndAlso IsNumeric(period), "-" &
(CInt(period) + block - 1), "")) & RTrim(" " & day)

End Function
```

## Ed-Fi 3.x Calendar Date Entity Mapping

### Overview

This document defines the mapping of Aeries data to the Ed-Fi data standard.



### Status

Ready for v3 certification.

**Document Version 1.0**

**Last Updated 07 Nov 2021**

### Description

The type of scheduled or unscheduled event for the day.

### Calendar Date Links

#### Mapping v3.2.0-c

<https://mappingedu.ed-fi.org/#!/entity/f9fe6748-e7ba-ea11-80df-005056b36109/info?dataStandardId=7ec6133d-e7ba-ea11-80df-005056b36109>

#### Schema v3.2.0-c

<https://schema.ed-fi.org/datahandbook-v320c/#!/CalendarDate545>

#### API v3.4.0

<https://api.ed-fi.org/v3.4.0/docs/index.html#/calendarDates>

#### Scenarios v3

<https://techdocs.ed-fi.org/display/EDFICERT/v3+Education+Organization+Calendar+%3E+CalendarDate+Scenarios>

Natural Key

- CalendarCode
- Date
- SchoolId
- SchoolYear

Used By

- SectionAttendanceTakenEvent.CalendarDate (as required).

Mapping

| Parent            | Property                | Type               | Required | Table | Field | Other                | Code / Notes                                                                                 |
|-------------------|-------------------------|--------------------|----------|-------|-------|----------------------|----------------------------------------------------------------------------------------------|
| \                 | date                    | Date               | Identity | DAY   | DT    |                      | GetNullableDate(s("DT"))                                                                     |
| \                 | calendarEvents          | calendarEvents[]   |          |       |       |                      |                                                                                              |
| calendarEvents    | calendarEventDescriptor | String             | Required | DAY   | HO    |                      | GetV3Descriptor("CalendarEventDescriptor", GetCalendarEventName(s("HO"))) see function below |
| \                 | Calendar Reference      | Calendar Reference | Identity |       |       |                      |                                                                                              |
| calendarReference | calendarCode            | Integer            | Identity | DAY   | SC    | Hardcoded SC + "CAL" | GetCalendarCode(s("SC"))                                                                     |
| calendarReference | schoolId                | Integer            | Identity | DAY   | SC    |                      | GetNullableInteger(s("SC"))                                                                  |
| calendarReference | schoolYear              | Integer            | Identity |       |       |                      | GetNullableInteger(GetCurrentSchoolYear(DbConnectionString))                                 |

Code

```

Public Shared Function GetCalendarCode(ByVal school As String) As String

    Return school & "CAL"

End Function

Public Shared Function GetCalendarEventName(ByVal calendarEvent As
String) As String

    ' https://demo.aeries.net/aeries/calendar.aspx

    Dim calendarEventName As String = Nothing

    Select Case calendarEvent

        Case "@" ' School not in session
            calendarEventName = EdFiConstants.
CalendarEventTypes(EdFiCalendarEventTypeEnum.Other) ' returning
nothing causes validation to fail

        Case "#" ' School Holiday
            calendarEventName = EdFiConstants.
CalendarEventTypes(EdFiCalendarEventTypeEnum.Holiday)

        Case "$" ' Staff Development
            calendarEventName = EdFiConstants.
CalendarEventTypes(EdFiCalendarEventTypeEnum.TeacherOnlyDay)

        Case "%" ' Minimum Day
            calendarEventName = EdFiConstants.
CalendarEventTypes(EdFiCalendarEventTypeEnum.
StudentLateArrivalEarlyDismissal)

        Case "+" ' Parent Conference
            calendarEventName = EdFiConstants.
CalendarEventTypes(EdFiCalendarEventTypeEnum.Other)

        Case Else ' must be a normal instructional day
            calendarEventName = EdFiConstants.
CalendarEventTypes(EdFiCalendarEventTypeEnum.InstructionalDay)

    End Select

    Return calendarEventName

End Function

```

# Ed-Fi 3.x Calendar Entity Mapping

## Overview

This document defines the mapping of Aeries data to the Ed-Fi data standard.



## Status

Ready for v3 certification.

**Document Version** 1.0

**Last Updated** 07 Nov 2021

## Description

A set of dates associated with an organization.

## Calendar Links

### Mapping v3.2.0-c

<https://mappingedu.ed-fi.org/#!/entity/f3fe6748-e7ba-ea11-80df-005056b36109/info?dataStandardId=7ec6133d-e7ba-ea11-80df-005056b36109>

### Schema v3.2.0-c

<https://schema.ed-fi.org/datahandbook-v320c/#!/Calendar2600>

### API v3.4.0

<https://api.ed-fi.org/v3.4.0/docs/index.html#/calendars>

### Scenarios v3

<https://techdocs.ed-fi.org/display/EDFICERT/v3+Education+Organization+Calendar+%3E+Calendar+Scenarios>

## Natural Key

- CalendarCode
- SchoolId
- SchoolYear

## Used By

- [StaffSchoolAssociation.Calendar](#) (as optional)
- [StudentSchoolAssociation.Calendar](#) (as optional)
- [CalendarDate.Calendar](#) (**as required**)

## Mappings

| Parent                  | Properties              | Type                    | Required        | Table | Field | Other                 | Code / Notes                                                   |
|-------------------------|-------------------------|-------------------------|-----------------|-------|-------|-----------------------|----------------------------------------------------------------|
| \                       | calendarCode            | String                  | <b>Identity</b> | DAY   | SC    |                       | GetCalendarCode(SC)                                            |
| \                       | schoolReference         | schoolReference         | Required        |       |       |                       |                                                                |
| schoolReference         | schoolId                | Integer                 | <b>Identity</b> | DAY   | SC    |                       |                                                                |
| \                       | schoolYearTypeReference | schoolYearTypeReference | Required        |       |       |                       |                                                                |
| schoolYearTypeReference | schoolYear              | Integer                 | <b>Identity</b> |       |       |                       | GetCurrentSchoolYear()                                         |
| \                       | calendarTypeDescriptor  | Descriptor              | <b>Required</b> |       |       | hard code to 'School' | GetV3Descriptor ("CalendarTypeDescriptor", "School")           |
| \                       | gradelevels             | List (Of gradeLevels)   | Conditional     |       |       |                       | Calendars are not associated with grade levels. Not in Aeries. |
| calendarGradeLevels[]   | gradeLevelDescriptor    | Descriptor              | Conditional     |       |       |                       |                                                                |

## Code

```
Public Shared Function GetCalendarCode(ByVal school As String) As String

    Return school & "CAL"

End Function

GetCurrentSchoolYear() gets the current school year from the database
connection string
```

## Ed-Fi 3.x Class Period Entity Mapping

### Overview

This document defines the mapping of Aeries data to the Ed-Fi data standard.



**Document Version** 1.0

**Last Updated** 07 Nov 2021

### Status

Ready for v3 certification.

### Description

This entity represents the designation of a regularly scheduled series of class meetings at designated times and days of the week.

### Class Period Links

#### Mapping v3.2.0-c

<https://mappingedu.ed-fi.org/#!/entity/02ff6748-e7ba-ea11-80df-005056b36109/info?dataStandardId=7ec6133d-e7ba-ea11-80df-005056b36109>

#### Schema v3.2.0-c

<https://schema.ed-fi.org/datahandbook-v320c/#!/ClassPeriod546>

#### API v3.4.0

<https://api.ed-fi.org/v3.4.0/docs/index.html#/classPeriods>

#### Scenarios v3

<https://techdocs.ed-fi.org/display/EDFICERT/v3+Education+Organization+%3E+Class+Period+Scenarios>

### Natural Key

- ClassPeriodName
- SchoolId

### Used By

- BellSchedule.ClassPeriod (as required collection)
- Section.ClassPeriod (as optional collection)

## Mapping

An indication of the portion of a typical daily session in which students receive instruction in a specified subject (e.g., morning, sixth period, block period, or AB schedules).

| Parent                        | Property                 | Type                               | Required | Table | Field      | Other | Code / Notes                                                            |
|-------------------------------|--------------------------|------------------------------------|----------|-------|------------|-------|-------------------------------------------------------------------------|
| \                             | classPeriodName          | String                             | Identity | MST   | PD, BL, DY |       | GetClassPeriodName(s("PD"), s("BL"), s("DY"))<br><br>See function below |
| \                             | schoolReference          | SchoolReference                    | Identity |       |            |       |                                                                         |
| schoolReference               | schoolId                 | Integer                            | Identity | MST   | SC         |       | GetNullableInteger(s("SC"))                                             |
| \                             | meetingTimes             | List (Of classPeriod MeetingTimes) | Required |       |            |       |                                                                         |
| classPeriodMeetingTimes<br>[] | startTime                | DateTime                           | Required | BEL   | T1         | ST    | GetString(rowBELIST)                                                    |
| classPeriodMeetingTimes<br>[] | endTime                  | DateTime                           | Required | BEL   | T2         | ET    | GetString(rowBELIET)                                                    |
| \                             | officialAttendancePeriod | Boolean                            | Optional |       |            |       |                                                                         |

## Code

```
Public Shared Function GetClassPeriodName(ByVal period As String, ByVal  
block As Integer, ByVal day As String) As String  
  
    'Examples: "FLEXP1, 1 MTWTF", "2-3 MTWTF", "5 MW", "6 A-DAYS"  
    Return period & (IIf(block > 1 AndAlso IsNumeric(period), "-" &  
    (CInt(period) + block - 1), "")) & RTrim(" " & day)  
  
End Function
```

## Ed-Fi 3.x Cohort Entity Mapping

### Overview

This document defines the mapping of Aeries data to the Ed-Fi data standard.

### Status

Ready for v3.x Certification.

### Description

This entity represents any type of list of designated students for tracking, analysis, or intervention.

### Cohort Links

#### Mapping v3.2.0-c

<https://mappingedu.ed-fi.org/#!/entity/0bfff6748-e7ba-ea11-80df-005056b36109/info?dataStandardId=7ec6133d-e7ba-ea11-80df-005056b36109>

#### Schema v3.2.0-c

<https://schema.ed-fi.org/datahandbook-v320c/#!/Cohort547>

#### API v3.4.0

<https://api.ed-fi.org/v3.4.0/docs/index.html#/cohorts>



**Document Version** 1.1

**Last Updated** 24 Oct 2021

## Scenarios v3

<https://techdocs.ed-fi.org/display/EDFICERT/v3+StudentCohort+%3E+Cohort+Scenarios>

## Natural Key

- CohortIdentifier
- EducationOrganizationId

## Used By

- StaffCohortAssociation.Cohort (as required)
- StudentCohortAssociation.Cohort (as required)
- StudentInterventionAssociation.Cohort (as optional)

## Entity Mapping

| Parent                         | Property                       | Type                           | Required        | Table | Field | Other                                    | Code / Notes                                                                  |
|--------------------------------|--------------------------------|--------------------------------|-----------------|-------|-------|------------------------------------------|-------------------------------------------------------------------------------|
| \                              | academicSubjectDescriptor      | Descriptor                     | Optional        |       |       |                                          |                                                                               |
| \                              | cohortDescription              | String                         | <b>Required</b> | SGD   | GN    |                                          | GetString(s("GN"))                                                            |
| \                              | educationOrganizationReference | EducationOrganizationReference | <b>Identity</b> |       |       |                                          |                                                                               |
| educationOrganizationReference | educationOrganizationId        | Integer                        | <b>Identity</b> | SGD   | SCL   |                                          | If(scl > 0, scl.Value, DistrictId)                                            |
| educationOrganizationReference | link                           | Link                           | Optional        |       |       |                                          |                                                                               |
| \                              | cohortIdentifier               | String                         | <b>Identity</b> | SGD   | GI    |                                          | GetString(s("GI"))                                                            |
| \                              | programs                       | New List(Of CohortProgram)     | Optional        |       |       |                                          |                                                                               |
| programs[n]                    | programReference               | ProgramReference               | Optional        |       |       |                                          |                                                                               |
| programs[n]                    | educationOrganizationId        | Integer                        | Optional        |       |       |                                          |                                                                               |
| programs[n]                    | programName                    | String                         | Optional        |       |       |                                          |                                                                               |
| programs[n]                    | programTypeDescriptor          | Descriptor                     | Optional        |       |       |                                          |                                                                               |
| \                              | cohortScopeDescriptor          | Descriptor                     | <b>Required</b> |       |       | If SCL = 0 Then "District" Else "School" | scl = GetNullableInteger(rowSGD!SCL)<br><br>If(scl > 0, "School", "District") |
| \                              | cohortTypeDescriptor           | Descriptor                     | <b>Required</b> |       |       | hard code to "Other"                     | GetString("Other")                                                            |

## Ed-Fi 3.x Course Entity Mapping

### Overview

This document defines the mapping of Aeries data to the Ed-Fi data standard.

### Status

Ready for v3 certification.

### Description

This educational entity represents the organization of subject matter and related learning experiences provided for the instruction of students on a regular or systematic basis.



**Document Version 1.0**

**Last Updated 07 Nov 2021**

## Course Links

### Mapping v3.2.0-c

<https://mappingedu.ed-fi.org/#!/entity/8cff6748-e7ba-ea11-80df-005056b36109/info?dataStandardId=7ec6133d-e7ba-ea11-80df-005056b36109>

### Schema v3.2.0-c

<https://schema.ed-fi.org/datahandbook-v320c/#!/Course550>

### API v3.4.0

<https://api.ed-fi.org/v3.4.0/docs/index.html#/courses>

### Scenarios v3

<https://techdocs.ed-fi.org/display/EDFICERT/v3+Education+Organization+%3E+Course+Scenarios>

## Natural Key

- CourseCode
- EducationOrganizationId

## Used By

- SurveyCourseAssociation.Course (as required)
- CreditsByCourse.Course (as required collection)
- CourseOffering.Course (as required)
- CourseTranscript.Course (as required)

## Mapping

| Parent                         | Property                                | Type                              | Required        | Table | Field | Other                             | Code / Notes                                                         |
|--------------------------------|-----------------------------------------|-----------------------------------|-----------------|-------|-------|-----------------------------------|----------------------------------------------------------------------|
| \                              | academicSubjectDescriptor               | Descriptor                        | <b>Required</b> | CRS   | S1    |                                   | GetEdFiCodeValue(.AcademicSubjectDescriptor, "CRS", "S1", rowCRS!S1) |
| \                              | careerPathwayDescriptor                 | Descriptor                        | Optional        |       |       |                                   |                                                                      |
| \                              | courseCode                              | String                            | <b>Identity</b> | CRS   | CN    |                                   | GetString(s("CN"))                                                   |
| \                              | competencyLevels                        | List(Of CourseCompetencyLevel)    | Optional        |       |       |                                   |                                                                      |
| competencyLevels[n]            | competencyLevelDescriptor               | String                            | Optional        |       |       |                                   |                                                                      |
| \                              | dateCourseAdopted                       | Date                              | Optional        |       |       |                                   |                                                                      |
| \                              | courseDefinedByDescriptor               | Descriptor                        | Optional        |       |       |                                   |                                                                      |
| \                              | courseDescription                       | String                            | Optional        |       |       |                                   |                                                                      |
| \                              | educationOrganizationReference          | EducationOrganizationReference    | Identity        |       |       |                                   |                                                                      |
| educationOrganizationReference | educationOrganizationId                 | Integer                           | <b>Identity</b> |       |       | SCEXT                             | OdsConfiguration.DistrictId, 29999, SC                               |
| \                              | courseGPAApPLICabilityDescriptor        | CourseGPAApplicabilityType        | Optional        |       |       |                                   |                                                                      |
| \                              | highSchoolCourseRequirement             | Boolean                           | Optional        |       |       |                                   |                                                                      |
| \                              | courseIdentificationCodes               | List(Of CourseIdentificationCode) | Required        |       |       |                                   |                                                                      |
| courseIdentificationCodes[1]   | assigningOrganizationIdentificationCode | String                            | Optional        |       |       |                                   |                                                                      |
| courseIdentificationCodes[1]   | courseCatalogURL                        | String                            | Optional        |       |       |                                   |                                                                      |
| courseIdentificationCodes[1]   | courseIdentificationSystemDescriptor    | Descriptor                        | <b>Required</b> |       |       | hard code to "School course code" | GetString("School course code"))                                     |

|                              |                                         |                                       |             |     |                                                                              |                                  |                                                                                                                                                                                                                                     |
|------------------------------|-----------------------------------------|---------------------------------------|-------------|-----|------------------------------------------------------------------------------|----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| courseIdentificationCodes[1] | identificationCode                      | String                                | Required    | CRS | CN                                                                           |                                  | GetString(rowCRS!CN)                                                                                                                                                                                                                |
| courseIdentificationCodes[2] | assigningOrganizationIdentificationCode | String                                | Optional    |     |                                                                              |                                  |                                                                                                                                                                                                                                     |
| courseIdentificationCodes[2] | courseCatalogURL                        | String                                |             |     |                                                                              |                                  |                                                                                                                                                                                                                                     |
| courseIdentificationCodes[2] | courseIdentificationSystemDescriptor    | Descriptor                            | Required    |     |                                                                              | hard code to "State course code" | GetString("State course code"))                                                                                                                                                                                                     |
| courseIdentificationCodes[2] | identificationCode                      | String                                | Required    | CRS | C3                                                                           |                                  | GetString(rowCRS!C3)                                                                                                                                                                                                                |
| \                            | learningObjectives                      | List(Of CourseLearning Objective)     | Optional    |     |                                                                              |                                  |                                                                                                                                                                                                                                     |
| learningObjectives           | learningObjectives[n]                   | learningObjectiveReference            | Optional    |     |                                                                              |                                  |                                                                                                                                                                                                                                     |
| learningObjectiveReference   | academicSubjectDescriptor               | Descriptor                            | Optional    |     |                                                                              |                                  |                                                                                                                                                                                                                                     |
| learningObjectiveReference   | objective                               | String                                | Optional    |     |                                                                              |                                  |                                                                                                                                                                                                                                     |
| learningObjectiveReference   | objectiveGradeLevelDescriptor           | String                                | Optional    |     |                                                                              |                                  |                                                                                                                                                                                                                                     |
| \                            | learningStandards                       | List(Of CourseLearning Standard)      | Optional    |     |                                                                              |                                  |                                                                                                                                                                                                                                     |
| learningStandards            | learningStandardReference               | LearningStandardReference             | Optional    |     |                                                                              |                                  |                                                                                                                                                                                                                                     |
| learningStandardReference    | learningStandardId                      | String                                | Optional    |     |                                                                              |                                  |                                                                                                                                                                                                                                     |
| \                            | levelCharacteristics                    | List(Of CourseLevel Characteristic)   | Required    |     |                                                                              |                                  |                                                                                                                                                                                                                                     |
| courseLevelCharacteristics   | courseLevelCharacteristicDescriptor     | Descriptor                            | Required    | CRS | NA = H, CL field for AP, IB, Remedial, Dual Credit, VCL for CTE codes 01-03. |                                  | GetEdFiCodeValue(CourseLevelCharacteristicType, rowCRS!NA, "CRS", "NA")<br><br>GetEdFiCodeValue(CourseLevelCharacteristicType, rowCRS!CL, "CRS", "CL")<br><br>GetEdFiCodeValue(CourseLevelCharacteristicType, rowCRS, "CRS", "VCL") |
| \                            | maximumAvailableCreditConversion        | Double                                | Optional    |     |                                                                              |                                  |                                                                                                                                                                                                                                     |
| \                            | maximumAvailableCredits                 | Double                                | Optional    |     |                                                                              |                                  |                                                                                                                                                                                                                                     |
| \                            | maximumAvailableCreditTypeDescriptor    | Descriptor                            | Optional    |     |                                                                              |                                  |                                                                                                                                                                                                                                     |
| \                            | minimumAvailableCreditConversion        | Double                                | Optional    |     |                                                                              |                                  |                                                                                                                                                                                                                                     |
| \                            | minimumAvailableCredits                 | Double                                | Optional    |     |                                                                              |                                  |                                                                                                                                                                                                                                     |
| \                            | minimumAvailableCreditTypeDescriptor    | Descriptor                            | Optional    |     |                                                                              |                                  |                                                                                                                                                                                                                                     |
| \                            | numberOfParts                           | Integer                               | Required    |     |                                                                              | Hard coded to 1                  | GetNullableInteger(1)                                                                                                                                                                                                               |
| \                            | offeredGradeLevels                      | New List(Of CourseOffered GradeLevel) | Optional    |     |                                                                              |                                  |                                                                                                                                                                                                                                     |
| offeredGradeLevels           | gradeLevelDescriptor                    | Descriptor                            | Optional    |     |                                                                              |                                  |                                                                                                                                                                                                                                     |
| \                            | timeRequiredForCompletion               | Integer                               | Optional    |     |                                                                              |                                  |                                                                                                                                                                                                                                     |
| \                            | courseTitle                             | String                                | Required    | CRS | CO                                                                           |                                  | GetString(s("CO"))                                                                                                                                                                                                                  |
| \                            | maxCompletionsForCredit                 | Integer                               | Conditional |     |                                                                              |                                  |                                                                                                                                                                                                                                     |
| \                            | assigningOrganizationIdentificationCode | String                                | Optional    |     |                                                                              |                                  |                                                                                                                                                                                                                                     |

|   |                                     |        |          |  |  |  |  |
|---|-------------------------------------|--------|----------|--|--|--|--|
| \ | courseCatalogURL                    | String | Optional |  |  |  |  |
| \ | alternativeCourseIdentificationCode | String | Optional |  |  |  |  |

## Ed-Fi 3.x Course Offering Entity Mapping

### Overview

This document defines the mapping of Aeries data to the Ed-Fi data standard.



**Document Version 1.0**

**Last Updated 07 Nov 2021**

### Status

Ready for v3 certification.

### Description

This entity represents an entry in the course catalog of available courses offered by the school during a session.

### Course Offering Links

#### Mapping v3.2.0-c

<https://mappingedu.ed-fi.org/#!/entity/a9ff6748-e7ba-ea11-80df-005056b36109/info?dataStandardId=7ec6133d-e7ba-ea11-80df-005056b36109>

#### Schema v3.2.0-c

<https://schema.ed-fi.org/datahandbook-v320c/#!/CourseOffering551>

#### API v3.4.0

<https://api.ed-fi.org/v3.4.0/docs/index.html#/courseOfferings>

#### Scenarios v3

<https://techdocs.ed-fi.org/display/EDFICERT/v3+MasterSchedule+%3E+CourseOffering+Scenarios>

### Natural Key

- LocalCourseCode
- SchoolId
- SchoolYear
- SessionName

### Used By

- Section.CourseOffering (as required)

### Entity Mapping

| Parent            | Property                  | Type                                   | Required        | Table | Field | Other      | Code / Notes                 |
|-------------------|---------------------------|----------------------------------------|-----------------|-------|-------|------------|------------------------------|
| \                 | courseReference           | CourseReference                        | Required        |       |       |            |                              |
| course Reference  | courseCode                | String                                 | <b>Required</b> | CRS   | CN    |            | GetString(s("CN"))           |
| course Reference  | educationOrganizationId   | Integer                                | <b>Required</b> |       |       | DistrictId | OdsConfiguration. DistrictId |
| \                 | curriculumUses            | List(Of CourseOffering CurriculumUsed) | Optional        |       |       |            |                              |
| curriculumUses[n] | curriculumUsedDescriptor  | Descriptor                             | Optional        |       |       |            |                              |
| \                 | instructionalTime Planned | Integer                                | Optional        |       |       |            |                              |
| \                 | localCourseCode           | String                                 | <b>Identity</b> | CRS   | CN    |            | GetString(s("CN"))           |

|                            |                                     |                  |                 |     |           |  |                                              |
|----------------------------|-------------------------------------|------------------|-----------------|-----|-----------|--|----------------------------------------------|
| \                          | localCourseTitle                    | String           | <b>Required</b> | CRS | CO        |  | GetString(s("CO"))                           |
| \                          | schoolReference                     | SchoolReference  | Identity        |     |           |  |                                              |
| schoolReference            | schoolId                            | Integer          | <b>Identity</b> | MST | SC        |  | GetNullableInteger(s("SC"))                  |
| \                          | sessionReference                    | SessionReference | Identity        |     |           |  |                                              |
| sessionReference           | sessionName                         | String           | <b>Identity</b> | TRM | D1,SC, TM |  | GetSessionName()                             |
| sessionReference           | schoolId                            | Integer          | <b>Identity</b> | TRM | SC        |  | GetNullableInteger(s("SC"))                  |
| sessionReference           | schoolYear                          | Integer          | <b>Identity</b> | TRM | D1        |  | GetSchoolYear(s("D1"))<br>see function below |
| \                          | courseLevelCharacteristics          | Array            | Optional        |     |           |  |                                              |
| courseLevelCharacteristics | courseLevelCharacteristicDescriptor | String           | Optional        |     |           |  |                                              |
| \                          | offeredGradeLevels                  | Array            | Optional        |     |           |  |                                              |
| offeredGradeLevels         | gradeLevelDescriptor                | String           | Optional        |     |           |  |                                              |

## Code

```

Public Shared Function GetSessionName(ByVal schoolYear As Integer,
ByVal term As String) As String

    Return schoolYear.ToString() & " " & term

End Function

Public Shared Function GetTermName(ByVal schoolcode As Integer, ByVal
termCode As String, ByVal connectionString As String) As String

    'Ref: https://mappingedu.ed-fi.org/#/element/e778beed-1c80-ea11-
80df-005056b36109/details?dataStandardId=e8efbbaa-1b80-ea11-80df-
005056b36109

    Select Case termCode
        Case "Y"
            Return "Year Round"
        Case "S"
            Return "Spring Semester"
        Case "F"
            Return "Fall Semester"
    End Select

    If Trimester(schoolcode, connectionString) Then
        Select Case termCode
            Case "1"
                Return "First Trimester"
            Case "2"
                Return "Second Trimester"
            Case "3"
                Return "Third Trimester"
        End Select
    Else

```

```

        Select Case termCode
            Case "1"
                Return "First Quarter"
            Case "2"
                Return "Second Quarter"
            Case "3"
                Return "Third Quarter"
            Case "4"
                Return "Fourth Quarter"
        End Select
    End If

    Return termCode

End Function

Public Shared Function GetSchoolYear(ByVal SchoolDate As String) As Integer?

    Dim schoolYear As Integer? = Nothing
    Dim schoolDateValue As Date

    If Date.TryParse(SchoolDate, schoolDateValue) Then
        schoolYear = EdFiV2Functions.GetSchoolYearFromDate
(schoolDateValue)
    End If

    Return schoolYear

End Function

Public Shared Function GetSchoolYearFromDate(ByVal SchoolDate As Date)
As Integer

    ' Ed-Fi sometimes uses a single year as 'school year'. It's
    actually, just the end year of a full school year in the form YYYY-YYYY
    Return GetEndYear(SchoolDate)

End Function

Public Shared Function GetEndYear(ByVal startDate As Date) As Integer

    Dim endYear As Integer = Nothing
    Dim startMonth As Integer = Month(startDate)

    If startMonth >= 7 Then
        ' July-Dec = "this
year" (i.e. 9/1/2012 = 2012-2013, so 2013)
        endYear = Year(startDate) + 1
    Else ' startMonth < 7

```

```
Jan-June = "last year" (i.e. 3/1/2012 = 2011-2012, so 2012)
        endYear = Year(startDate)
    End If

    Return endYear

End Function
```

```
[
  {
    "id": "string",
    "localCourseCode": "string",
    "courseReference": {
      "courseCode": "string",
      "educationOrganizationId": 0,
      "link": {
        "rel": "string",
        "href": "string"
      }
    },
    "schoolReference": {
      "schoolId": 0,
      "link": {
        "rel": "string",
        "href": "string"
      }
    },
    "sessionReference": {
      "schoolId": 0,
      "schoolYear": 0,
      "sessionName": "string",
      "link": {
        "rel": "string",
        "href": "string"
      }
    },
    "courseLevelCharacteristics": [
      {
        "courseLevelCharacteristicDescriptor": "string"
      }
    ],
    "curriculumUses": [
      {
        "curriculumUsedDescriptor": "string"
      }
    ],
    "instructionalTimePlanned": 0,
    "localCourseTitle": "string",
    "offeredGradeLevels": [
      {
        "gradeLevelDescriptor": "string"
      }
    ],
    "_etag": "string"
  }
]
```

# Ed-Fi 3.x Course Transcript Entity Mapping

## Overview

This document defines the mapping of Aeries data to the Ed-Fi data standard.



**Document Version** 1.0

**Last Updated** 05 Nov 2021

## Status

Ready for v3 certification.

## Description

This entity is the final record of a student's performance in their courses at the end of a semester or school year.

## Course Transcript Links

### Mapping v3.2.0-c

<https://mappingedu.ed-fi.org/#!/entity/bdff6748-e7ba-ea11-80df-005056b36109/info?dataStandardId=7ec6133d-e7ba-ea11-80df-005056b36109>

### Schema v3.2.0-c

<https://schema.ed-fi.org/datahandbook-v320c/#!/CourseTranscript552>

### API v3.4.0

<https://api.ed-fi.org/v3.4.0/docs/index.html#/courseTranscripts>

### Scenarios v3

<https://techdocs.ed-fi.org/display/EDFICERT/v3+Student+Transcript+%3E+CourseTranscript+Scenarios>

## Natural Key

- CourseAttemptResultDescriptor
- CourseCode
- CourseEducationOrganizationId
- EducationOrganizationId
- SchoolYear
- StudentUniqueld
- TermDescriptor

## Used By

- None

## Mapping

| Parent                                | Properties                              | Type                                          | Required | Table | Field | Other | Code / Notes |
|---------------------------------------|-----------------------------------------|-----------------------------------------------|----------|-------|-------|-------|--------------|
| \                                     | alternativeCourseCode                   | String                                        | Optional |       |       |       |              |
| \                                     | alternativeCourseIdentificationCodes    | List (Of alternativeCourseIdentificationCode) | Optional |       |       |       |              |
| alternativeCourseIdentificationCode[] | courseIdentificationSystemDescriptor    | String                                        | Optional |       |       |       |              |
| alternativeCourseIdentificationCode[] | assigningOrganizationIdentificationCode | String                                        | Optional |       |       |       |              |
| alternativeCourseIdentificationCode[] | courseCatalogURL                        | String                                        | Optional |       |       |       |              |
| alternativeCourseIdentificationCode[] | identificationCode                      | String                                        | Optional |       |       |       |              |

|                                    |                                             |                                                                 |                 |     |    |                                            |                                                                                    |
|------------------------------------|---------------------------------------------|-----------------------------------------------------------------|-----------------|-----|----|--------------------------------------------|------------------------------------------------------------------------------------|
| \                                  | alternativeCourseTitle                      | String                                                          | Optional        |     |    |                                            |                                                                                    |
| \                                  | assigningOrganization<br>IdentificationCode | String                                                          | Optional        |     |    |                                            |                                                                                    |
| \                                  | attemptedCredit<br>Conversion               | Double                                                          | Optional        |     |    |                                            |                                                                                    |
| \                                  | attemptedCredits                            | <b>Double</b>                                                   | <b>Required</b> | HIS | CR | AttemptedCredits                           | GetNullableDouble(s<br>("AttemptedCredits"))                                       |
| \                                  | attemptedCreditType<br>Descriptor           | String                                                          | Optional        |     |    |                                            |                                                                                    |
| \                                  | courseCatalogURL                            | String                                                          | Optional        |     |    |                                            |                                                                                    |
| \                                  | courseAttemptResult<br>Descriptor           | <b>String</b>                                                   | <b>Identity</b> | HIS | MK |                                            | GetEdFiCodeValue(<br>CourseAttemptResultD<br>escriptor, "GRC",<br>"MK", rowHIS!MK) |
| \                                  | courseReference                             | CourseRefer<br>ence                                             | Required        |     |    |                                            |                                                                                    |
| courseReference                    | courseCode                                  | String                                                          | <b>Identity</b> | HIS | CN |                                            | GetString(s("CN"))                                                                 |
| courseReference                    | educationOrganizationId                     | Integer                                                         | <b>Identity</b> |     |    | District ID or<br>OutOfDisctrict<br>School | GetNullableInteger<br>(rowHIS!SCCOR)                                               |
| \                                  | courseRepeatCode<br>Descriptor              | String                                                          | Optional        |     |    |                                            |                                                                                    |
| \                                  | courseTitle                                 | String                                                          | Optional        |     |    |                                            |                                                                                    |
| \                                  | creditCategories                            | List (Of<br>String)                                             | Optional        |     |    |                                            |                                                                                    |
| creditCategory[]                   | creditCategory<br>Descriptor                | String                                                          | Optional        |     |    |                                            |                                                                                    |
| \                                  | earnedAdditionalCredits                     | List(Of<br>CourseTrans<br>cript<br>EarnedAdditi<br>onalCredits) | Optional        |     |    |                                            |                                                                                    |
| earnedAdditional<br>Credits[n]     | additionalCreditType<br>Descriptor          | String                                                          | Optional        |     |    |                                            |                                                                                    |
| earnedAdditional<br>Credits[n]     | credits                                     | Double                                                          | Optional        |     |    |                                            |                                                                                    |
| \                                  | earnedCreditConversion                      | Double                                                          | Optional        |     |    |                                            |                                                                                    |
| \                                  | earnedCredits                               | Double                                                          | <b>Required</b> | HIS | CC | EarnedCredits                              | GetNullableDouble(s<br>("EarnedCredits"))                                          |
| \                                  | earnedCreditType<br>Descriptor              | String                                                          | Optional        |     |    |                                            |                                                                                    |
| \                                  | finalLetterGradeEarned                      | String                                                          | <b>Required</b> | HIS | MK |                                            | if IsNumeric(rowHIS!<br>MK) = false<br>GetString(rowHIS!<br>MK)                    |
| \                                  | finalNumericGrade<br>Earned                 | Double                                                          | <b>Required</b> | HIS | MK |                                            | if IsNumeric(rowHIS!<br>MK) = true<br>GetNullableDouble<br>(rowHIS!MK)             |
| \                                  | methodCreditEarned<br>Descriptor            | String                                                          | Optional        |     |    |                                            |                                                                                    |
| \                                  | whenTakenGradeLevel<br>Descriptor           | String                                                          | Optional        |     |    |                                            |                                                                                    |
| \                                  | studentAcademicRecord<br>Reference          | StudentAcad<br>emic<br>RecordRefer<br>ence                      | Identity        |     |    |                                            |                                                                                    |
| studentAcademic<br>RecordReference | educationOrganizationId                     | Integer                                                         | <b>Identity</b> | STU | SC |                                            | GetNullableInteger<br>(rowHIS!SC)                                                  |
| studentAcademic<br>RecordReference | schoolYear                                  | Integer                                                         | <b>Identity</b> | HIS | YR |                                            | GetSchoolYearFromInt<br>(s("YR"))<br><br>see function below                        |
| studentAcademic<br>RecordReference | studentUniqueld                             | String                                                          | <b>Identity</b> | STU | ID |                                            | GetString(s("ID"))                                                                 |

|                                        |                                        |                   |          |     |       |                                              |                                                                      |
|----------------------------------------|----------------------------------------|-------------------|----------|-----|-------|----------------------------------------------|----------------------------------------------------------------------|
| studentAcademicRecordReference         | termDescriptor                         | String            | Identity | TDF | ST0-8 | TermStateCode<br>Based on<br>HIS.TE 0-8      | GetEdFiCodeValue(TermDescriptor, "TDF", "ST0", rowHIS!TermStateCode) |
| \                                      | academicSubjects                       | List (Of Strings) | Optional |     |       |                                              |                                                                      |
| academicSubjects[]                     | academicSubjectDescriptor              | String            | Optional |     |       |                                              |                                                                      |
| \                                      | whenTakenGradeLevelDescriptor          | String            | Optional |     |       |                                              |                                                                      |
| \                                      | externalEducationOrganizationReference |                   | Optional |     |       |                                              |                                                                      |
| externalEducationOrganizationReference | educationOrganizationId                | Integer           | Optional |     |       | Nothing, District ID or OutOfDistrict School | GetNullableInteger(rowHIS!SCEXT)                                     |

## Code

```
Public Shared Function GetSchoolYearFromInt(ByVal obj As Object) As Integer?

    Dim schoolYear As Integer? = Nothing
    Dim year As Integer = 0

    If obj IsNot Nothing AndAlso Integer.TryParse(obj, year) Then
        If year < 1000 Then
            ' 2 or 3 digit year i.e. 18 will return 2018 or 118 will
            return 2118
            schoolYear = 2000 + year
        ElseIf year < 9999 Then
            ' 4 digit year i.e. 2018 so return 2018 (or maybe 2118)
            schoolYear = year
        Else
            ' the data is corrupt so just return Nothing.
        End If
    End If

    Return schoolYear

End Function
```

## Ed-Fi 3.x Discipline Action Entity Mapping

### Overview

This document defines the mapping of Aeries data to the Ed-Fi data standard.

### Status

Ready for v3 certification.



Document Version 1.0

Last Updated 07 Nov 2021

## Description

This event entity represents actions taken by an education organization after a disruptive event that is recorded as a discipline incident.

## Discipline Action Entity Links

### Mapping v3.2.0-c

<https://mappingedu.ed-fi.org/#!/entity/eaff6748-e7ba-ea11-80df-005056b36109/info?dataStandardId=7ec6133d-e7ba-ea11-80df-005056b36109>

### Schema v3.2.0-c

<https://schema.ed-fi.org/datahandbook-v320c/#!/DisciplineAction553>

### API v3.4.0

<https://api.ed-fi.org/v3.4.0/docs/index.html#/disciplineActions>

### Scenarios v3

<https://techdocs.ed-fi.org/display/EDFICERT/v3+Student+Discipline+%3E+DisciplineAction+Scenarios>

## Natural Key

- DisciplineActionIdentifier
- DisciplineDate
- StudentUniqueld

## Used By

None

## Mapping

| Parent                                        | Property                                      | Type                                           | Required        | Table      | Field              | Other                     | Code                                                                                                      |
|-----------------------------------------------|-----------------------------------------------|------------------------------------------------|-----------------|------------|--------------------|---------------------------|-----------------------------------------------------------------------------------------------------------|
| \                                             | assignmentSchoolReference                     | SchoolReference                                | Optional        |            |                    |                           |                                                                                                           |
| assignmentSchoolReference                     | schoolId                                      | Integer                                        | Optional        |            |                    |                           |                                                                                                           |
| \                                             | disciplineDate                                | Date                                           | <b>Identity</b> | DSP or ADS | [DSP].[DD], ADS.DT | MIN([DSP].[DD]) or ADS.DT | If(GetNullableDate(s("StartDate")) Is Nothing, GetNullableDate(s("DT")), GetNullableDate(s("StartDate"))) |
| \                                             | studentDisciplineIncidentAssociations         | List (Of studentDisciplineIncidentAssociation) | Required        |            |                    |                           |                                                                                                           |
| studentDisciplineIncidentAssociations[n]      | studentDisciplineIncidentAssociationReference | studentDisciplineIncidentAssociationReference  | Required        |            |                    |                           |                                                                                                           |
| studentDisciplineIncidentAssociationReference | incidentIdentifier                            | String                                         | <b>Required</b> | ADS        | IID                |                           | GetString(rowDSP! IID)                                                                                    |
| studentDisciplineIncidentAssociationReference | schoolId                                      | Integer                                        | <b>Required</b> | ADS        | SCL                |                           | GetNullableInteger(rowDSP!SCL)                                                                            |
| studentDisciplineIncidentAssociationReference | studentUniqueld                               | Integer                                        | <b>Required</b> | ADS        | PID                |                           | GetString(s("PID"))                                                                                       |
| \                                             | disciplines                                   | List(Of DisciplineActionDiscipline)            | <b>Required</b> |            |                    |                           |                                                                                                           |

|                               |                                                      |                                   |                 |     |     |             |                                                                                    |
|-------------------------------|------------------------------------------------------|-----------------------------------|-----------------|-----|-----|-------------|------------------------------------------------------------------------------------|
| disciplines[n]                | disciplineDescriptor                                 | <a href="#">DisciplineMapType</a> | <b>Required</b> | DSP | DS  |             | GetEdFiCodeValue(DisciplineDescriptor, "DSP", "DS", discipline)<br>see logic below |
| \                             | disciplineActionIdentifier                           | String                            | <b>Identity</b> | ADS | SQ  |             | GetString(s("SQ"))                                                                 |
| \                             | actualDisciplineActionLength                         | Integer                           | <b>Required</b> | DSP | DY  | SUM(DSP.DY) | TotalDays                                                                          |
| \                             | disciplineActionLength                               | Integer                           | Optional        |     |     |             |                                                                                    |
| \                             | disciplineActionLength<br>DifferenceReasonDescriptor | Descriptor                        | Optional        |     |     |             |                                                                                    |
| \                             | relatedToZeroTolerancePolicy                         | Boolean                           | Optional        |     |     |             |                                                                                    |
| \                             | responsibilitySchoolReference                        | SchoolReference                   | Required        |     |     |             |                                                                                    |
| responsibilitySchoolReference | schoolId                                             | Integer                           | <b>Required</b> | ADS | SCL |             | GetNullableInteger(s("SCL"))                                                       |
| \                             | staffs                                               | List(Of DisciplineAction Staff)   | Optional        |     |     |             |                                                                                    |
| staffs[n]                     | staffReference                                       | StaffReference                    | Optional        |     |     |             |                                                                                    |
| staffs[n]                     | staffUniqueid                                        | String                            | Optional        |     |     |             |                                                                                    |
| \                             | studentReference                                     | StudentReference                  | Identity        |     |     |             |                                                                                    |
| studentReference              | studentUniqueid                                      | String                            | <b>Identity</b> | ADS | PID |             | GetString(s("PID"))                                                                |
|                               | receivedEducationServicesDuringExpulsion             | boolean                           | Required        | ADS | ISI |             |                                                                                    |
| \                             | iepPlacementMeetingIndicator                         | boolean                           | Required        | ADS | SHD |             | If ADS.SHD exists then TRUE, else return Nothing                                   |

## Code

Loop through all the discipline actions and if a mapping fails add 'Other' to the list, if it's not already present. Do not add any duplicates to the list.

```

For Each discipline As String In lstDisciplines

    Dim disciplineAction As DisciplineActionDiscipline = New
    DisciplineActionDiscipline With {
        .disciplineDescriptor = EdFiDescriptors.GetEdFiCodeValue
        (EdFiResourceDescriptors.DisciplineDescriptor, "DSP", "DS", discipline,
        OdsConfiguration.ConfigId, DbConnectionString)
    }
    ' consider adding a parameter to GetEdFiCodeValue that is a
    default if null or empty
    If String.IsNullOrEmpty(disciplineAction.disciplineDescriptor)
    Then
        disciplineAction.disciplineDescriptor = "Other"
    End If

    If Not mappedDisciplineAction.disciplines.Any(Function(d) d.
    disciplineDescriptor = disciplineAction.disciplineDescriptor) Then
        mappedDisciplineAction.disciplines.Add(disciplineAction)
    End If

Next

```

```

[
  {
    "id": "string",
    "disciplineActionIdentifier": "string",
    "disciplineDate": "2020-12-17",
    "disciplines": [
      {
        "disciplineDescriptor": "string"
      }
    ],
    "studentDisciplineIncidentAssociations": [
      {
        "studentDisciplineIncidentAssociationReference": {
          "incidentIdentifier": "string",
          "schoolId": 0,
          "studentUniqueId": "string",
          "link": {
            "rel": "string",
            "href": "string"
          }
        }
      }
    ]
  },
]

```

```

"assignmentSchoolReference": {
  "schoolId": 0,
  "link": {
    "rel": "string",
    "href": "string"
  }
},
"responsibilitySchoolReference": {
  "schoolId": 0,
  "link": {
    "rel": "string",
    "href": "string"
  }
},
"studentReference": {
  "studentUniqueId": "string",
  "link": {
    "rel": "string",
    "href": "string"
  }
},
"actualDisciplineActionLength": 0,
"disciplineActionLength": 0,
"disciplineActionLengthDifferenceReasonDescriptor": "string",
"iepPlacementMeetingIndicator": true,
"receivedEducationServicesDuringExpulsion": true,
"relatedToZeroTolerancePolicy": true,
"staffs": [
  {
    "staffReference": {
      "staffUniqueId": "string",
      "link": {
        "rel": "string",
        "href": "string"
      }
    }
  }
],
"_etag": "string"
}
]

```

## Ed-Fi 3.x Discipline Incident Entity Mapping

### Overview

This document defines the mapping of Aeries data to the Ed-Fi data standard.

### Status



Document Version 1.0

## Description

This event entity represents an occurrence of an infraction ranging from a minor behavioral problem that disrupts the orderly functioning of a school or classroom (such as tardiness) to a criminal act that results in the involvement of a law enforcement official (such as robbery). A single event (e.g., a fight) is one incident regardless of how many perpetrators or victims are involved. Discipline incidents are events classified as warranting discipline action.

## Discipline Links

### Mapping v3.2.0-c

<https://mappingedu.ed-fi.org/#!/entity/09006848-e7ba-ea11-80df-005056b36109/info?dataStandardId=7ec6133d-e7ba-ea11-80df-005056b36109>

### Schema v3.2.0-c

<https://schema.ed-fi.org/datahandbook-v320c/#!/DisciplineIncident554>

### API v3.4.0

<https://api.ed-fi.org/v3.4.0/docs/index.html#/disciplineIncidents>

### Scenarios v3

<https://techdocs.ed-fi.org/display/EDFICERT/v3+Student+Discipline+%3E+DisciplineIncident+Scenarios>

## Natural Key

- IncidentIdentifier
- SchoolId

## Used By

- StaffDisciplineIncidentAssociation.DisciplineIncident (as required)
- StudentDisciplineIncidentAssociation.DisciplineIncident (as required)

## Mapping

| Parent       | Property                     | Type                                 | Required        | Table | Field | Other          | Code / Note                                                             |
|--------------|------------------------------|--------------------------------------|-----------------|-------|-------|----------------|-------------------------------------------------------------------------|
| \            | behaviors                    | List(Of Discipline IncidentBehavior) | Required        |       |       |                |                                                                         |
| behaviors[n] | behaviors(1)                 | DisciplineIncident Behavior          | Required        |       |       |                |                                                                         |
| behaviors[n] | behaviorDescriptor           | Descriptor                           | Required        |       |       |                | Not Available - Aeries tracks them per student                          |
| behaviors[n] | behaviorDetailed Description | String                               | Optional        |       |       |                |                                                                         |
| \            | caseNumber                   | String                               | Optional        |       |       |                |                                                                         |
| \            | incidentCost                 | Double                               | Optional        |       |       |                |                                                                         |
| \            | incidentDate                 | Date                                 | <b>Required</b> | ADS   | DT    | ADS.DT         | GetNullableDate(s("DT"))                                                |
| \            | incidentDescription          | String                               | Optional        |       |       |                |                                                                         |
| \            | incidentIdentifier           | String                               | <b>Identity</b> | ADS   | IID   | ADS.IID        | GetString(s("IID"))                                                     |
| \            | IncidentLocationDescriptor   | Descriptor                           | <b>Required</b> | ADS   | LCN   | ADS.LCN mapped | GetEdFiCodeValue( IncidentLocationDescriptor, "ADS", "LCN", rowADS!LCN) |
| \            | incidentTime                 | String                               | Optional        | ADS   | ET    |                | GetTimeString(s("ET"))                                                  |
| \            | reportedToLaw Enforcement    | Boolean                              | Optional        | ADS   | LNF   |                | GetNullableBoolean(s("LNF"))                                            |

|                 |                               |                                    |          |     |     |         |                                                                                                                 |
|-----------------|-------------------------------|------------------------------------|----------|-----|-----|---------|-----------------------------------------------------------------------------------------------------------------|
| \               | reporterDescriptionDescriptor | Descriptor                         | Required |     |     | 'Other' | We do not store this in Aeries. Hard Code to 'Other' GetV3Descriptor ("ReporterDescriptionDescriptor", "Other") |
| \               | reporterName                  | String                             | Required | ADS | RF  | ADS.RF  | GetString(s("Referrer"), "Unknown")<br>set to "Unknown" if blank.                                               |
|                 | schoolReference               | SchoolReference                    | Identity |     |     |         |                                                                                                                 |
| schoolReference | schoolId                      | Integer                            | Identity | ADS | SCL | ADS.SCL | GetNullableInteger(s("SCL"))                                                                                    |
| \               | staffReference                | StaffReference                     | Optional |     |     |         |                                                                                                                 |
| staffReference  | staffUniqueId                 | String                             | Optional |     |     |         |                                                                                                                 |
| \               | weapons                       | List(Of DisciplineIncident Weapon) | Optional |     |     |         |                                                                                                                 |
| weapons[n]      | weapons (1)                   | DisciplineIncident Weapon          | Optional |     |     |         |                                                                                                                 |
| weapons[n]      | weaponDescriptor              | Descriptor                         | Optional | ADS | WT  |         | GetEdFiCodeValue(WeaponDescriptor, "ADS", "WT", rowWeapon!WT)                                                   |

## Ed-Fi 3.x Grade Entity Mapping

### Overview

This document defines the mapping of Aeries data to the Ed-Fi data standard.



**Document Version 1.0**

**Last Updated 07 Nov 2021**

### Status

Ready for v3 certification.

### Description

This educational entity represents an overall score or assessment tied to a course over a period of time (i.e., the grading period). Student grades are usually a compilation of marks and other scores.

### Grade Links

#### Mapping v3.2.0-c

<https://mappingedu.ed-fi.org/#!/entity/e7006848-e7ba-ea11-80df-005056b36109/info?dataStandardId=7ec6133d-e7ba-ea11-80df-005056b36109>

#### Schema v3.2.0-c

<https://schema.ed-fi.org/datahandbook-v320c/#!/Grade559>

#### API v3.4.0

<https://api.ed-fi.org/v3.4.0/docs/index.html#/grades>

#### Scenarios v3

<https://techdocs.ed-fi.org/display/EDFICERT/v3+StudentGrade+%3E+Grade+Scenarios>

### Natural Key

- BeginDate
- GradeTypeDescriptor
- GradingPeriodDescriptor
- GradingPeriodSchoolYear
- GradingPeriodSequence
- LocalCourseCode
- SchoolId
- SchoolYear
- SectionIdentifier
- SessionName
- StudentUniqueId

## Used By

- ReportCard.Grade (as optional collection)

## Mapping

| Parent                             | Properties                          | Type                               | Required | Table | Field                             | Other                          | Code                                                                                                 |
|------------------------------------|-------------------------------------|------------------------------------|----------|-------|-----------------------------------|--------------------------------|------------------------------------------------------------------------------------------------------|
| \                                  | diagnosticStatement                 | String                             | Optional |       |                                   |                                |                                                                                                      |
| \                                  | gradingPeriodReference              | GradingPeriodReference             | Identity |       |                                   |                                |                                                                                                      |
| gradingPeriodReference             | gradingPeriodDescriptor             | Descriptor                         | Identity | GRP   | GRP.C# AS GradingPeriodDescriptor |                                | GetEdFiCodeValue(<br>GradingPeriodDescriptor,<br>"GRP", "C1",<br>rowGRD!<br>GradingPeriodDescriptor) |
| gradingPeriodReference             | periodSequence                      | Integer                            | Identity |       |                                   | 1 - 12                         | GetGradingPeriodSequence(s<br>("SEQ"))<br><br>see function below                                     |
| gradingPeriodReference             | schoolYear                          | Integer                            | Identity |       |                                   | Aeries Current School Year + 1 | GetNullableInteger(s<br>("SchoolYear")))                                                             |
| gradingPeriodReference             | schoolId                            | Integer                            | Identity | GRD   | GRD.SC AS SchoolID                |                                | GetNullableInteger(s("SC"))<br>For Current School (not District)                                     |
| \                                  | letterGradeEarned                   | String                             | Required | GRP   | GRD.M# AS CurrentMark             |                                | if IsNumeric(<br>rowGRD!<br>CurrentMark) =<br>false<br>rowGRD!<br>CurrentMark                        |
| \                                  | numericGradeEarned                  | String                             | Required | GRP   | GRD.M# AS CurrentMark             |                                | if IsNumeric(<br>rowGRD!<br>CurrentMark) =<br>true<br>rowGRD!<br>CurrentMark                         |
| \                                  | performanceBaseConversionDescriptor | Descriptor                         | Optional |       |                                   |                                |                                                                                                      |
| \                                  | studentSectionAssociationReference  | StudentSectionAssociationReference | Identity |       |                                   |                                |                                                                                                      |
| studentSectionAssociationReference | beginDate                           | Date                               | Identity | CAR   | CAR.DS AS StartDate               |                                | GetNullableDate(s("StartDate"))                                                                      |
| studentSectionAssociationReference | localCourseCode                     | String                             | Identity | GRD   | GRD.CN                            |                                | GetString(s("CN"))                                                                                   |
| studentSectionAssociationReference | schoolId                            | Integer                            | Identity | GRD   | GRD.SC                            |                                | GetNullableInteger(s("SC"))                                                                          |
| studentSectionAssociationReference | schoolYear                          | Integer                            | Identity | CAR   | CAR.DS AS StartDate               |                                | GetNullableInteger(s("SchoolYear"))                                                                  |
| studentSectionAssociationReference | studentUniqueId                     | String                             | Identity | STU   | STU.ID                            |                                | GetString(s("ID"))                                                                                   |
| studentSectionAssociationReference | sessionName                         | String                             | Identity | MST   | MST.SM                            |                                | GetTermDescriptor(<br>rowGRD!SC,<br>rowGRD!SM)<br><br>see function below                             |

|                                        |                                     |                               |          |     |                     |                                  |                                                                                                          |
|----------------------------------------|-------------------------------------|-------------------------------|----------|-----|---------------------|----------------------------------|----------------------------------------------------------------------------------------------------------|
| studentSection<br>AssociationReference | sectionIdentifier                   | String                        | Identity | MST | MST.SC & MST.<br>SE |                                  | GetUniqueSection<br>Code(<br>s("SC"), s("SE"))<br>school & "-" &<br>section<br><br>see function<br>below |
| \                                      | gradeTypeDescriptor                 | Descriptor                    | Identity |     |                     | Hard code to<br>"Grading Period" | GetV3Descriptor<br>("GradeTypeDesc<br>riptor", "Grading<br>Period")                                      |
| \                                      | learningStandardGrades              | learningStandard<br>Grade[]   | Optional |     |                     |                                  |                                                                                                          |
| learningStandardGrades<br>[]           | performanceBaseConversionDescriptor | Descriptor                    | Optional |     |                     |                                  |                                                                                                          |
| learningStandardGrades<br>[]           | diagnosticStatement                 | String                        | Optional |     |                     |                                  |                                                                                                          |
| learningStandardGrades<br>[]           | letterGradeEarned                   | String                        | Optional |     |                     |                                  |                                                                                                          |
| learningStandardGrades<br>[]           | numericGradeEarned                  | Integer                       | Optional |     |                     |                                  |                                                                                                          |
| learningStandardGrades<br>[]           | learningStandardReference           | learningStandard<br>Reference | Optional |     |                     |                                  |                                                                                                          |
| learningStandardReference              | learningStandardId                  | String                        | Optional |     |                     |                                  |                                                                                                          |

Code

```

        Public Shared Function GetGradingPeriodSequence(ByVal sequence
As String) As Integer?

            Dim periodSequence As Integer? = Nothing

            If Not String.IsNullOrEmpty(sequence) Then

                Select Case sequence.ToUpper
                    Case "F"
                        periodSequence = 1

                    Case "S"
                        periodSequence = 2

                    Case "Y"
                        periodSequence = 3

                    Case Else
                        If IsNumeric(sequence)
                            periodSequence
Then
                                = CType(sequence, Integer)
                        End If
                    End Select
                End If

                return periodSequence
            End Function

        End Class

        Public Shared Function GetUniqueSectionCode(ByVal school As String,
ByVal section As String) As String

            Return school & "-" & section

        End Function

```

```
[
  {
    "id": "string",
    "gradeTypeDescriptor": "string",
    "gradingPeriodReference": {
      "gradingPeriodDescriptor": "string",
      "periodSequence": 0,
      "schoolId": 0,
      "schoolYear": 0,
      "link": {
        "rel": "string",
        "href": "string"
      }
    },
    "studentSectionAssociationReference": {
      "beginDate": "2020-12-17",
      "localCourseCode": "string",
      "schoolId": 0,
      "schoolYear": 0,
      "sectionIdentifier": "string",
      "sessionName": "string",
      "studentUniqueId": "string",
      "link": {
        "rel": "string",
        "href": "string"
      }
    },
    "diagnosticStatement": "string",
    "learningStandardGrades": [
      {
        "performanceBaseConversionDescriptor": "string",
        "diagnosticStatement": "string",
        "letterGradeEarned": "string",
        "numericGradeEarned": 0,
        "learningStandardReference": {
          "learningStandardId": "string",
          "link": {
            "rel": "string",
            "href": "string"
          }
        }
      }
    ],
    "letterGradeEarned": "string",
    "numericGradeEarned": 0,
    "performanceBaseConversionDescriptor": "string",
    "_etag": "string"
  }
]
```

# Ed-Fi 3.x Grading Period Entity Mapping

## Overview

This document defines the mapping of Aeries data to the Ed-Fi data standard.



**Document Version** 1.0

**Last Updated** 07 Nov 2021

## Status

Ready for v3 certification.

## Description

This entity represents the time span for which grades are reported.

## Note

If the school is a straight elementary school then get the data from the TRM table, else get the data from the GRP table.

## Grading Period Links

### Mapping v3.2.0-c

<https://mappings.ed-fi.org/#!/entity/32016848-e7ba-ea11-80df-005056b36109/info?dataStandardId=7ec6133d-e7ba-ea11-80df-005056b36109>

### Schema v3.2.0-c

<https://schema.ed-fi.org/datahandbook-v320c/#!/GradingPeriod561>

### API v3.4.0

<https://api.ed-fi.org/v3.4.0/docs/index.html#/gradingPeriods>

### Scenarios v3

<https://techdocs.ed-fi.org/display/EDFICERT/v3+Education+Organization+Calendar+%3E+Grading+Periods+Scenarios>

## Natural Key

- GradingPeriodDescriptor
- PeriodSequence
- SchoolId
- SchoolYear

## Used By

- Grade.GradingPeriod (as required)
- GradebookEntry.GradingPeriod (as optional)
- ReportCard.GradingPeriod (as required)
- Session.GradingPeriod (as optional collection)
- StudentCompetencyObjective.GradingPeriod (as required)
- StudentLearningObjective.GradingPeriod (as required)

## Entity Mapping

| Parent | Properties | Type | Required | Table | Field  | Other     | Code / Notes                    |
|--------|------------|------|----------|-------|--------|-----------|---------------------------------|
| \      | beginDate  | Date | Required | GRP   | B1 -12 | BeginDate | GetNullableDate(s("BeginDate")) |
| \      | endDate    | Date | Required | GRP   | E 1-12 | EndDate   | GetNullableDate(s("EndDate"))   |

|                         |                         |                         |                 |     |                        |           |                                                                                               |
|-------------------------|-------------------------|-------------------------|-----------------|-----|------------------------|-----------|-----------------------------------------------------------------------------------------------|
| \                       | periodSequence          | Integer                 | <b>Identity</b> |     | SEQ 1-12               |           | GetNullableInteger(s("SEQ"))                                                                  |
| \                       | gradingPeriodDescriptor | GradingPeriodDescriptor | <b>Identity</b> | GRP | C 1-12                 | StateCode | GetEdFiCodeValue(GradingPeriodDescriptor, "GRP", "C1", s("StateCode"))                        |
| \                       | schoolReference         | SchoolReference         | <b>Identity</b> |     |                        |           |                                                                                               |
| schoolReference         | schoolId                | Integer                 | <b>Identity</b> | GRP | SC                     |           | GetNullableInteger(s("SC"))                                                                   |
| \                       | schoolYearTypeReference | SchoolYearTypeReference | <b>Identity</b> |     |                        |           |                                                                                               |
| schoolYearTypeReference | schoolYear              | Integer                 | <b>Identity</b> | GRP | BeginDate              |           | GetSchoolYear(s("BeginDate"))<br>see function below                                           |
| \                       | totalInstructionalDays  | Integer                 | <b>Required</b> | GRP | SC, BeginDate, EndDate |           | GetTotalInstructionalDays(drGRP!SC, drGRP!BeginDate, drGRP!EndDate)<br><br>see function below |

## Code

```
Public Shared Function GetTotalInstructionalDays(schoolCode As Integer,
startDate As Date, endDate As Date, ByVal connectionString As String)
As Integer?
```

```
    Return DAY_Functions.GetTeachingDays(schoolCode, "", startDate,
endDate, connectionString)
```

```
End Function
```

```
Public Shared Function GetTeachingDays(ByVal SC As Integer, ByVal TR As
String, ByVal StartDate As Date, ByVal EndDate As Date, ByVal
ConnectionString As String) As Integer
```

```
    Dim intDays As Integer = 0
```

```
    ' Ensure Date-Range is defined
```

```
    If Not StartDate = Nothing AndAlso IsDate(StartDate) AndAlso
Not EndDate = Nothing AndAlso IsDate(EndDate) Then
```

```
        Dim strSQL As String = "SELECT DY, DT, HO, T1, T2, T3,
T4, T5, T6, T7, T8, T9, T10, T11, T12, T13,"
```

```
        strSQL &= " T14, T15, T16, T17, T18, T19, T20, T21,
T22, T23, T24, T25, T26"
```

```
        strSQL &= " FROM DAY WHERE DEL = 0 AND SC = @SC AND DT
>= @SD AND DT <= @ED ORDER BY DY"
```

```
        Dim intTR As Integer = 0
```

```
        If TR > " " Then
```

```
            intTR = Asc(UCase(TR)) - 64
```

```
            If intTR > 26 OrElse intTR < 1 Then intTR = 0
```

```
        End If
```

```
        Dim drDAY As SqlDataReader = ConnectDB.GetDataReader
(strSQL, connectionString, New SqlParameter() {
```

```

        MakeParam("@SC", SqlDbType.SmallInt, 0, SC),
        MakeParam("@SD", SqlDbType.Date, 0, StartDate), MakeParam("@ED",
        SqlDbType.Date, 0, EndDate)))

        While drDAY.Read
            If intTR > 0 AndAlso intTR <= 26 Then
                If isSchoolDay(drDAY("T" & intTR)) Then
intDays += 1
                Else
                    If isSchoolDay(drDAY!H0) Then intDays
+= 1
                End If
            End While

            drDAY.Close()

        End If

        Return intDays

End Function

''' <summary>
''' GetSchoolYear - Ed-Fi uses the end date of a full school year.
Aeries calculates the full year based on the start date based on the
month.
''' </summary>
''' <param name="SchoolDate"></param>
''' <returns></returns>
Public Shared Function GetSchoolYearFromDate(ByVal SchoolDate As Date)
As Integer

    ' Ed-Fi sometimes uses a single year as 'school year'. It's
actually, just the end year of a full school year in the form YYYY-YYYY
    Return GetEndYear(SchoolDate)

End Function

''' <summary>
''' GetSchoolYear - Get value for Version 2 of Ed-Fi
''' </summary>
''' <param name="SchoolDate"></param>
''' <returns></returns>
Public Shared Function GetSchoolYear(ByVal SchoolDate As String) As
Integer?

    Dim schoolYear As Integer? = Nothing
    Dim schoolDateValue As Date

    If Date.TryParse(SchoolDate, schoolDateValue) Then

```

```

        schoolYear = EdFiV2Functions.GetSchoolYearFromDate
(schoolDateValue)
    End If

    Return schoolYear

End Function

''' <summary>
''' GetSchoolYear - This function takes the startDate of a school year,
calculates the endDate based on Aeries logic, and returns the endDate
year
''' This function is not really Ed-Fi specific and probably belongs in
an Aeries helper class.
''' </summary>
''' <param name="startDate"></param>
''' <returns></returns>
Public Shared Function GetEndYear(ByVal startDate As Date) As Integer

    Dim endYear As Integer = Nothing
    Dim startMonth As Integer = Month(startDate)

    If startMonth >= 7 Then
        ' July-Dec = "this
year" (i.e. 9/1/2012 = 2012-2013, so 2013)
        endYear = Year(startDate) + 1
    Else ' startMonth < 7
        ' Jan-June = "last year" (i.e. 3/1/2012 = 2011-2012, so 2012)
        endYear = Year(startDate)
    End If

    Return endYear

End Function

```

## Ed-Fi 3.x Graduation Plan Entity Mapping

### Overview

This document defines the mapping of Aeries data to the Ed-Fi data standard.

### Status

Ready for v3 certification.

### Description

This entity is a plan outlining the required credits, credits by subject, credits by course, and other criteria required for graduation. A graduation plan may be one or more standard plans defined by an education organization and/or individual plans for some or all students.



**Document Version** 1.0

**Last Updated** 07 Nov 2021

## Graduation Plan Links

### Mapping v3.2.0-c

<https://mappingedu.ed-fi.org/#!/entity/3b016848-e7ba-ea11-80df-005056b36109/info?dataStandardId=7ec6133d-e7ba-ea11-80df-005056b36109>

### Schema v3.2.0-c

<https://schema.ed-fi.org/datahandbook-v320c/#!/GraduationPlan562>

### API v3.4.0

<https://api.ed-fi.org/v3.4.0/docs/index.html#/graduationPlans>

### Scenarios v3

<https://techdocs.ed-fi.org/display/EDFICERT/v3+Student+Enrollment+%3E+Graduation+Plan+Scenarios>

## Natural Key

- EducationOrganizationId
- GraduationPlanTypeDescriptor
- GraduationSchoolYear

## Used By

- StudentSchoolAssociation.GraduationPlan (as optional collection)

## Entity Mapping

| Parent                                   | Property                          | Type                                          | Required | Table | Field  | Other              | Code / Notes                                                     |
|------------------------------------------|-----------------------------------|-----------------------------------------------|----------|-------|--------|--------------------|------------------------------------------------------------------|
| \                                        | creditsByCourses                  | List(Of GraduationPlan CreditsByCourse)       | Optional |       |        |                    |                                                                  |
| creditsByCourses                         | courses                           | List(Of GraduationPlan CreditsByCourseCourse) | Optional |       |        |                    |                                                                  |
| creditsByCourses\courses                 | courseReference                   | CourseReference                               | Optional |       |        |                    |                                                                  |
| creditsByCourses\courses\courseReference | code                              | String                                        | Optional |       |        |                    |                                                                  |
| creditsByCourses\courses\courseReference | educationOrganizationId           | Integer                                       | Optional |       |        |                    |                                                                  |
| creditsByCourses                         | courseSetName                     | String                                        | Optional |       |        |                    |                                                                  |
| creditsByCourses                         | creditConversion                  | Decimal                                       | Optional |       |        |                    |                                                                  |
| creditsByCourses                         | credits                           | Decimal                                       | Optional |       |        |                    |                                                                  |
| creditsByCourses                         | creditTypeDescriptor              | Descriptor                                    | Optional |       |        |                    |                                                                  |
| creditsByCourses                         | whenTakenGradeLevelDescriptor     | Descriptor                                    | Optional |       |        |                    |                                                                  |
| \                                        | creditsBySubjects                 | List(Of GraduationPlan CreditsBySubject)      | Optional |       |        |                    |                                                                  |
| creditsBySubjects                        | academicSubjectDescriptor         | Descriptor                                    | Optional | REQ   | CD     | CRS.S1 Code Values | GetEdFiCodeValue(AcademicSubjectDescriptor, "CRS", "S1", row!CD) |
| creditsBySubjects                        | creditConversion                  | Double                                        | Optional |       |        |                    |                                                                  |
| creditsBySubjects                        | credits                           | Double                                        | Optional | REQ   | C1-C4  | Credits            | GetNullableDouble(row!Credits)                                   |
| creditsBySubjects                        | creditTypeDescriptor              | Descriptor                                    | Optional |       |        |                    |                                                                  |
| \                                        | educationOrganizationReference    | EducationOrganizationReference                | Identity |       |        |                    |                                                                  |
| educationOrganizationReference           | educationOrganizationId           | Integer                                       | Identity | REQ   | SC     |                    | GetNullableInteger(s("SC"))                                      |
| \                                        | graduationSchoolYearTypeReference | SchoolYearTypeReference                       | Identity |       |        |                    |                                                                  |
| graduationSchoolYearTypeReference        | schoolYear                        | Integer                                       | Identity | DAY   | YR + 1 | GraduationYear     | GetNullableDouble(s("GraduationYear"))                           |

|                                                  |                                      |                                                               |                 |     |              |                     |                                                                           |
|--------------------------------------------------|--------------------------------------|---------------------------------------------------------------|-----------------|-----|--------------|---------------------|---------------------------------------------------------------------------|
| \                                                | individualPlan                       | Boolean                                                       | Optional        |     |              | Hard coded to False | GetNullableBoolean(False)                                                 |
| \                                                | requiredAssessments                  | List(Of GraduationPlan RequiredAssessment)                    | Optional        |     |              |                     |                                                                           |
| requiredAssessments                              | assessment PerformanceLevel          | GraduationPlan RequiredAssessment Assessment PerformanceLevel | Optional        |     |              |                     |                                                                           |
| requiredAssessments \assessment PerformanceLevel | assessmentReporting MethodDescriptor | Descriptor                                                    | Optional        |     |              |                     |                                                                           |
| requiredAssessments \assessment PerformanceLevel | maximumScore                         | String                                                        | Optional        |     |              |                     |                                                                           |
| requiredAssessments \assessment PerformanceLevel | minimumScore                         | String                                                        | Optional        |     |              |                     |                                                                           |
| requiredAssessments \assessment PerformanceLevel | performanceLevel Descriptor          | String                                                        | Optional        |     |              |                     |                                                                           |
| requiredAssessments \assessment PerformanceLevel | resultDatatypeTypeDescriptor         | Descriptor                                                    | Optional        |     |              |                     |                                                                           |
| requiredAssessments                              | assessmentReference                  | AssessmentReference                                           | Optional        |     |              |                     |                                                                           |
| requiredAssessments \assessmentReference         | identifier                           | String                                                        | Optional        |     |              |                     |                                                                           |
| requiredAssessments \assessmentReference         | namespace                            | String                                                        | Optional        |     |              |                     |                                                                           |
| requiredAssessments                              | scores                               | List(Of GraduationPlan Required AssessmentScore)              | Optional        |     |              |                     |                                                                           |
| requiredAssessments\scores                       | assessmentReporting MethodDescriptor | Descriptor                                                    | Optional        |     |              |                     |                                                                           |
| requiredAssessments\scores                       | maximumScore                         | String                                                        | Optional        |     |              |                     |                                                                           |
| requiredAssessments\scores                       | minimumScore                         | String                                                        | Optional        |     |              |                     |                                                                           |
| requiredAssessments\scores                       | resultDatatypeTypeDescriptor         | Descriptor                                                    | Optional        |     |              |                     |                                                                           |
| \                                                | totalRequiredCredit Conversion       | Double                                                        | Optional        |     |              |                     |                                                                           |
| \                                                | totalRequiredCredits                 | Double                                                        | <b>Required</b> | REQ | TotalCredits |                     | GetNullableDouble(s("TotalCredits"))                                      |
| \                                                | totalRequiredCreditType Descriptor   | Descriptor                                                    | Optional        |     |              |                     |                                                                           |
| \                                                | graduationPlanType Descriptor        | Descriptor                                                    | <b>Identity</b> | REQ | GRT          |                     | GetEdFiCodeValue(GraduationPlanType Descriptor, "REQ", "GRT", rowREQ!GRT) |

## Ed-Fi 3.x Location Entity Mapping

### Overview

This document defines the mapping of Aeries data to the Ed-Fi data standard.

### Status

Ready for v3 certification

### Description

This entity represents the physical space where students gather for a particular class/section. The Location may be an indoor or outdoor area designated for the purpose of meeting the educational needs of students.



**Document Version 1.0**

**Last Updated 07 Nov 2021**

## Location Links

### Mapping v3.2.0-c

<https://mappingedu.ed-fi.org/#!/entity/1b026848-e7ba-ea11-80df-005056b36109/info?dataStandardId=7ec6133d-e7ba-ea11-80df-005056b36109>

### Schema v3.2.0-c

<https://schema.ed-fi.org/datahandbook-v320c/#!/Location570>

### API v3.4.0

<https://api.ed-fi.org/v3.4.0/docs/index.html#/locations>

### Scenarios v3

<https://techdocs.ed-fi.org/display/EDFICERT/v3+Education+Organization+%3E+Location+Scenarios>

## Natural Key

- ClassroomIdentificationCode
- SchoolId

## Used By

- Section.Location (as optional)

## Entity Mapping

| Parent          | Property                    | Type            | Required        | Table | Field | Other    | Code / Notes                                                      |
|-----------------|-----------------------------|-----------------|-----------------|-------|-------|----------|-------------------------------------------------------------------|
| \               | classroomIdentificationCode | String          | <b>Identity</b> | MST   | RM    |          | GetClassroomIdentificationCode(s("RM"))<br><br>see function below |
| \               | maximumNumberOfSeats        | Integer         | <b>Required</b> | MST   | MX    | MaxSeats | GetNullableInteger(s("MaxSeats"))                                 |
| \               | optimalNumberOfSeats        | Integer         | Optional        |       |       |          |                                                                   |
| \               | schoolReference             | SchoolReference | Identity        |       |       |          |                                                                   |
| schoolReference | schoolId                    | Integer         | <b>Identity</b> | MST   | SC    |          | GetNullableInteger(s("SC"))                                       |

## Code

```
Public Shared Function GetClassroomIdentificationCode(ByVal room As String) As String

    Return IIf(String.IsNullOrEmpty(room), "Unassigned", room)

End Function
```

```
[
  {
    "id": "string",
    "classroomIdentificationCode": "string",
    "schoolReference": {
      "schoolId": 0,
      "link": {
        "rel": "string",
        "href": "string"
      }
    },
    "maximumNumberOfSeats": 0,
    "optimalNumberOfSeats": 0,
    "_etag": "string"
  }
]
```

## Ed-Fi 3.x Parent Entity Mapping

### Overview

This document defines the mapping of Aeries data to the Ed-Fi data standard.



### Status

Ready for v3.x Certification.

**Document Version** 1.1

**Last Updated** 24 Oct 2021

### Description

This entity represents a parent or guardian of a student, such as mother, father, or caretaker.

### Parent Links

#### Mapping v3.2.0-c

<https://mappingedu.ed-fi.org/#!/entity/4f026848-e7ba-ea11-80df-005056b36109/info?dataStandardId=7ec6133d-e7ba-ea11-80df-005056b36109>

#### Schema v3.2.0-c

<https://schema.ed-fi.org/datahandbook-v320c/#!/Parent573>

#### API v3.4.0

<https://api.ed-fi.org/v3.4.0/docs/index.html#/parents>

#### Scenarios v3

<https://techdocs.ed-fi.org/display/EDFICERT/v3+Parent+%3E+Parent+Scenarios>

### Natural Key

- ParentUniqueid

### Used By

- StudentParentAssociation.Parent (as required)
- SurveyResponderChoice.Parent (as required)

## Special Logic

While looping through data, only sync if LW = "Y" OR ERH = "Y" OR PC = "Y" OR AP = "Y"

## Mappings

| Parent                  | Properties                   | Type                                | Required           | Table | Field | Other                       | Code / Notes                                                                                                                                                                    |
|-------------------------|------------------------------|-------------------------------------|--------------------|-------|-------|-----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| \                       | parentUniqueld               | String                              | <b>Identity</b>    |       |       | STU.ID & "-" & CON.SQ       | GetString(s("ID")) & "-" & GetString(s("SQ"))                                                                                                                                   |
| \                       | addresses[]                  | List(Of ParentAddress)              | Required           |       |       |                             |                                                                                                                                                                                 |
| addresses[1]            | addressTypeDescriptor        | Descriptor                          | Optional           |       |       |                             | EdFiAddressTypes(EdFiAddressTypeEnum.Home) = "Home"                                                                                                                             |
| addresses[1]            | apartmentRoomSuiteNumber     | String                              | <b>Required</b>    |       |       |                             | <b>Required for certification</b> - But not stored in Aeries.<br>Don't send anything.                                                                                           |
| addresses[1]            | buildingSiteNumber           | String                              | Optional           |       |       |                             |                                                                                                                                                                                 |
| addresses[1]            | city                         | String                              | <b>Required</b>    | CON   | CY    |                             | GetString(s("CY"))                                                                                                                                                              |
| addresses[1]            | congressionalDistrict        | String                              | Optional           |       |       |                             |                                                                                                                                                                                 |
| addresses[1]            | countyFIPSCode               | String                              | Optional           |       |       |                             |                                                                                                                                                                                 |
| addresses[1]            | doNotPublishIndicator        | Boolean                             | <b>Required</b>    |       |       |                             | <b>Required for certification</b> - But not stored in Aeries.<br>Don't send anything.                                                                                           |
| addresses[1]            | latitude                     | String                              | Optional           |       |       |                             |                                                                                                                                                                                 |
| addresses[1]            | localeDescriptor             | Descriptor                          | Optional           |       |       |                             |                                                                                                                                                                                 |
| addresses[1]            | longitude                    | String                              | Optional           |       |       |                             |                                                                                                                                                                                 |
| addresses[1]            | nameOfCounty                 | String                              | <b>Conditional</b> |       |       |                             | Not stored in Aeries                                                                                                                                                            |
| addresses               | Periods[]                    | List (Of Period)                    | Optional           |       |       |                             |                                                                                                                                                                                 |
| addresses[1].Periods[1] | beginDate                    | DateTime                            | Optional           |       |       |                             |                                                                                                                                                                                 |
| addresses[1].Periods[1] | endDate                      | DateTime                            | Optional           |       |       |                             |                                                                                                                                                                                 |
| addresses[1]            | postalCode                   | String                              | <b>Required</b>    | CON   | ZC    |                             | GetString(s("ZC"))                                                                                                                                                              |
| addresses[1]            | stateAbbreviationDescriptor  | Descriptor                          | <b>Required</b>    | CON   | ST    |                             | GetUpperCaseString(rowCON!ST)                                                                                                                                                   |
| addresses[1]            | streetNumberName             | String                              | <b>Required</b>    | CON   | AD    |                             | GetString(s("AD"))                                                                                                                                                              |
| \                       | electronicMails[]            | List(Of ParentElectronicMail)       | Required           |       |       |                             |                                                                                                                                                                                 |
| electronicMails[1]      | doNotPublishIndicator        | Boolean                             | Optional           |       |       |                             |                                                                                                                                                                                 |
| electronicMails[1]      | electronicMailAddress        | String                              | <b>Required</b>    | CON   | EM    |                             | GetString(s("EM"))                                                                                                                                                              |
| electronicMails[1]      | electronicMailTypeDescriptor | Descriptor                          | <b>Conditional</b> |       |       | hard coded to home/personal | EdFiElectronicMailTypeEnum.HomePersonal = "Home/Personal"<br><br>Aeries only collects a single email address for a parent and the "type" of the email address is not collected. |
| electronicMails[1]      | primaryEmailAddressIndicator | Boolean                             | <b>Required</b>    |       |       |                             | <b>Required for certification</b> - But not stored in Aeries.<br>Don't send anything.                                                                                           |
| \                       | firstName                    | String                              | <b>Required</b>    | CON   | FN    |                             | GetString(s("FN"))                                                                                                                                                              |
| \                       | generationCodeSuffix         | String                              | Optional           |       |       |                             |                                                                                                                                                                                 |
| \                       | internationalAddresses       | List(Of ParentInternationalAddress) | Optional           |       |       |                             |                                                                                                                                                                                 |

|                                    |                                           |                          |             |     |    |  |                                                                                                                                                                                                               |
|------------------------------------|-------------------------------------------|--------------------------|-------------|-----|----|--|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| internationalAddresses[1]          | addressTypeDescriptor                     | Descriptor               | Optional    |     |    |  |                                                                                                                                                                                                               |
| internationalAddresses[1]          | countryDescriptor                         | Descriptor               | Optional    |     |    |  |                                                                                                                                                                                                               |
| internationalAddresses[1]          | addressLine1                              | String                   | Optional    |     |    |  |                                                                                                                                                                                                               |
| internationalAddresses[1]          | addressLine2                              | String                   | Optional    |     |    |  |                                                                                                                                                                                                               |
| internationalAddresses[1]          | addressLine3                              | String                   | Optional    |     |    |  |                                                                                                                                                                                                               |
| internationalAddresses[1]          | addressLine4                              | String                   | Optional    |     |    |  |                                                                                                                                                                                                               |
| internationalAddresses[1]          | beginDate                                 | DateTime                 | Optional    |     |    |  |                                                                                                                                                                                                               |
| internationalAddresses[1]          | endDate                                   | DateTime                 | Optional    |     |    |  |                                                                                                                                                                                                               |
| internationalAddresses[1]          | latitude                                  | String                   | Optional    |     |    |  |                                                                                                                                                                                                               |
| internationalAddresses[1]          | longitude                                 | String                   | Optional    |     |    |  |                                                                                                                                                                                                               |
| \                                  | languages[]                               | List(Of Languages)       | Optional    |     |    |  |                                                                                                                                                                                                               |
| languages[1]                       | languageDescriptor                        | Descriptor               | Optional    |     |    |  |                                                                                                                                                                                                               |
| languages[1]                       | uses[]                                    | List(Of Uses)            | Optional    |     |    |  |                                                                                                                                                                                                               |
| languages[1].uses[1]               | languageUseDescriptor                     | Descriptor               | Optional    |     |    |  |                                                                                                                                                                                                               |
| \                                  | lastName                                  | String                   | Required    | CON | LN |  | GetString(s("LN"))                                                                                                                                                                                            |
| \                                  | loginId                                   | String                   | Optional    |     |    |  |                                                                                                                                                                                                               |
| \                                  | maidenName                                | String                   | Optional    |     |    |  |                                                                                                                                                                                                               |
| \                                  | middleName                                | String                   | Optional    |     |    |  |                                                                                                                                                                                                               |
| \                                  | otherNames                                | List(Of ParentOtherName) | Optional    |     |    |  |                                                                                                                                                                                                               |
| otherNames[1]                      | otherNameTypeDescriptor                   | String                   | Optional    |     |    |  |                                                                                                                                                                                                               |
| otherNames[1]                      | firstName                                 | String                   | Optional    |     |    |  |                                                                                                                                                                                                               |
| otherNames[1]                      | generationCodeSuffix                      | String                   | Optional    |     |    |  |                                                                                                                                                                                                               |
| otherNames[1]                      | lastName                                  | String                   | Optional    |     |    |  |                                                                                                                                                                                                               |
| otherNames[1]                      | middleName                                | String                   | Optional    |     |    |  |                                                                                                                                                                                                               |
| otherNames[1]                      | personalTitlePrefix                       | String                   | Optional    |     |    |  |                                                                                                                                                                                                               |
| \                                  | personalIdentificationDocuments           | List                     | Optional    |     |    |  |                                                                                                                                                                                                               |
| personalIdentificationDocuments[1] | identificationDocumentUseDescriptor       | Descriptor               | Optional    |     |    |  |                                                                                                                                                                                                               |
| personalIdentificationDocuments[1] | personalInformationVerificationDescriptor | Descriptor               | Optional    |     |    |  |                                                                                                                                                                                                               |
| personalIdentificationDocuments[1] | issuerCountryDescriptor                   | Descriptor               | Optional    |     |    |  |                                                                                                                                                                                                               |
| personalIdentificationDocuments[1] | documentExpirationDate                    | DateTime                 | Optional    |     |    |  |                                                                                                                                                                                                               |
| personalIdentificationDocuments[1] | documentTitle                             | String                   | Optional    |     |    |  |                                                                                                                                                                                                               |
| personalIdentificationDocuments[1] | issuerDocumentIdentificationCode          | String                   | Optional    |     |    |  |                                                                                                                                                                                                               |
| personalIdentificationDocuments[1] | issuerName                                | String                   | Optional    |     |    |  |                                                                                                                                                                                                               |
| \                                  | personalTitlePrefix                       | String                   | Optional    |     |    |  |                                                                                                                                                                                                               |
| \                                  | sexDescriptor                             | Descriptor               | Conditional | CON | RL |  | GetEdFiCodeValue (EdFiResourceTypes.SexType, "CON", "RL.2", rowCON!RL)<br><br>This is not specifically collected in Aeries although in some cases, a parent's relationship to the student can infer a gender. |
| \                                  | telephones                                | List(Of ParentTelephone) | Optional    |     |    |  |                                                                                                                                                                                                               |

|               |                                    |            |          |  |  |  |  |
|---------------|------------------------------------|------------|----------|--|--|--|--|
| telephones[1] | telephoneNumber<br>TypeDescriptor  | Descriptor | Optional |  |  |  |  |
| telephones[1] | telephoneNumber                    | String     | Optional |  |  |  |  |
| telephones[1] | doNotPublishIndicator              | Boolean    | Optional |  |  |  |  |
| telephones[1] | orderOfPriority                    | Integer    | Optional |  |  |  |  |
| telephones[1] | textMessage<br>CapabilityIndicator | Boolean    | Optional |  |  |  |  |

## Code

```
Protected Function IsValidParent(LW As String, ERH As String, PC As
String, AP As String) As Boolean

    Dim boolVal As Boolean = False

    boolVal = (Not String.IsNullOrEmpty(LW) AndAlso (LW = "Y"
OrElse LW = "y" = True)) OrElse
                (Not String.IsNullOrEmpty(ERH) AndAlso (ERH =
"Y" OrElse ERH = "y" = True)) OrElse
                (Not String.IsNullOrEmpty(PC) AndAlso (PC =
"Y" OrElse PC = "y" = True)) OrElse
                (Not String.IsNullOrEmpty(AP) AndAlso (AP =
"Y" OrElse AP = "y" = True))

    Return boolVal

End Function
```

## Ed-Fi 3.x Program Entity Mapping

### Overview

This document defines the mapping of Aeries data to the Ed-Fi data standard.

### Status

Ready for v3 certification.



**Document Version 1.0**

**Last Updated 07 Nov 2021**

### Description

This entity represents any program designed to work in conjunction with, or as a supplement to, the main academic program. Programs may provide instruction, training, services, or benefits through federal, state, or local agencies. Programs may also include organized extracurricular activities for students.

### Program Links

#### Mapping v3.2.0-c

<https://mappingedu.ed-fi.org/#!/entity/c7026848-e7ba-ea11-80df-005056b36109/info?dataStandardId=7ec6133d-e7ba-ea11-80df-005056b36109>

#### Schema v3.2.0-c

<https://schema.ed-fi.org/datahandbook-v320c/#!/Program576>

## API v3.4.0

<https://api.ed-fi.org/v3.4.0/docs/index.html#/programs>

## Scenarios v3

<https://techdocs.ed-fi.org/display/EDFICERT/v3+Education+Organization+%3E+Program+Scenarios>

## Natural Key

- EducationOrganizationId
- ProgramName
- ProgramTypeDescriptor

## Used By

- GeneralStudentProgramAssociation.Program (as required)
- StaffProgramAssociation.Program (as required)
- SurveyProgramAssociation.Program (as required)
- SectionOrProgramChoice.Program (as required collection)
- Cohort.Program (as optional collection)
- RestraintEvent.Program (as optional collection)
- Section.Program (as optional collection)

## Important note

Only Programs that are mapped get uploaded to the ODS

## Entity Mapping

| Parent                                         | Property                       | Type                              | Required        | Table | Field | Other | Code / Notes                                                                                 |
|------------------------------------------------|--------------------------------|-----------------------------------|-----------------|-------|-------|-------|----------------------------------------------------------------------------------------------|
| \                                              | characteristics                | List(Of ProgramCharacteristic)    | Optional        |       |       |       |                                                                                              |
| characteristics                                | ProgramCharacteristic          | Descriptor                        | Optional        |       |       |       |                                                                                              |
| \                                              | educationOrganizationReference | EducationOrganizationReference    | Identity        |       |       |       |                                                                                              |
| educationOrganizationReference                 | educationOrganizationId        | Integer                           | <b>Identity</b> | PGM   | SCL   |       | scl = GetNullableInteger(rowPGM!SCL)<br>scl = If(scl, 0)<br><br>If(scl > 0, scl, DistrictId) |
| \                                              | learningObjectives             | List(Of ProgramLearningObjective) | Optional        |       |       |       |                                                                                              |
| learningObjectives                             | learningObjectiveReference     | LearningObjectiveReference        | Optional        |       |       |       |                                                                                              |
| learningObjectives \learningObjectiveReference | learningObjectiveId            | String                            | Optional        |       |       |       |                                                                                              |
| learningObjectives \learningObjectiveReference | namespace                      | String                            | Optional        |       |       |       |                                                                                              |
| learningObjectives \learningObjectiveReference | objectiveGradeLevelDescriptor  | Descriptor                        | Optional        |       |       |       |                                                                                              |
| \                                              | learningStandards              | List(Of ProgramLearningStandard)  | Optional        |       |       |       |                                                                                              |
| learningStandards                              | learningStandardReference      | LearningStandardReference         | Optional        |       |       |       |                                                                                              |
| learningStandards \learningStandardReference   | learningStandardId             | String                            | Optional        |       |       |       |                                                                                              |
| \                                              | programName                    | String                            | <b>Identity</b> | PGM   | CD    |       | see logic below                                                                              |

|                 |                          |                                   |                 |     |    |  |                    |
|-----------------|--------------------------|-----------------------------------|-----------------|-----|----|--|--------------------|
| \               | programId                | String                            | <b>Required</b> | PGM | CD |  | GetString(s("CD")) |
| \               | services                 | List(Of ProgramService)           | Optional        |     |    |  |                    |
| services        | serviceDescriptor        | <a href="#">ServiceDescriptor</a> | Optional        |     |    |  |                    |
| \               | programTypeDescriptor    | Descriptor                        | <b>Identity</b> | PGM | CD |  | see logic below    |
| \               | sponsors                 | List                              | Optional        |     |    |  |                    |
| programSponsors | programSponsorDescriptor | Descriptor                        | Optional        |     |    |  |                    |

Code

## ProgramName & ProgramTypeDescriptor Logic

```
If rowPGM!CD = "124" Then
    mappedProgram.ProgramName = "English as a Second
Language (ESL)"
    mappedProgram.ProgramTypeDescriptor = GetV3Descriptor
("ProgramTypeDescriptor", "English as a Second Language (ESL)")
    Else If rowPGM!CD = "135" Then
        mappedProgram.ProgramName = "Migrant Education"
        mappedProgram.ProgramTypeDescriptor = GetV3Descriptor
("ProgramTypeDescriptor", "Migrant Education")
    Else If rowPGM!CD = "144" Then
        mappedProgram.ProgramName = "Special Education"
        mappedProgram.ProgramTypeDescriptor = GetV3Descriptor
("ProgramTypeDescriptor", "Special Education")
    Else If (rowPGM!CD = "154") Then
        mappedProgram.ProgramName = "Career and Technical
Education"
        mappedProgram.ProgramTypeDescriptor = GetV3Descriptor
("ProgramTypeDescriptor", "Career and Technical
Education")
    Else If (rowPGM!CD = "171") Then
        mappedProgram.ProgramName = "Neglected and Delinquent
Program"
        mappedProgram.ProgramTypeDescriptor = GetV3Descriptor
("ProgramTypeDescriptor", "Neglected and Delinquent
Program")
    Else If (rowPGM!CD = "181") Then
        mappedProgram.ProgramName = "Student School Food
Service"
        mappedProgram.ProgramTypeDescriptor = GetV3Descriptor
("ProgramTypeDescriptor", "Student School Food
Service")
    ElseIf rowPGM!CD = "191" Then
        mappedProgram.ProgramName = "Homeless"
        mappedProgram.ProgramTypeDescriptor = GetV3Descriptor
("ProgramTypeDescriptor", "Homeless")
    Else
        ' the max length that the program name can be is 60
characters, or it will fail Ed-Fi validation
        mappedProgram.ProgramName = GetMaxLengthString
(GetDescription(scl, "PGM", "CD", rowPGM!CD, DbConnectionString), 60)
        mappedProgram.ProgramTypeDescriptor = EdFiDescriptors.
GetEdFiCodeValue(EdFiResourceDescriptors.ProgramTypeDescriptor, "PGM",
"CD", rowPGM!CD, OdsConfiguration.ConfigId, DbConnectionString)
End If
```

# Ed-Fi 3.x School Entity Mapping

## Overview

This document defines the mapping of Aeries data to the Ed-Fi data standard.



## Status

Ready for v3 certification.

**Document Version** 1.0

**Last Updated** 07 Nov 2021

## Description

This entity represents an educational organization that includes staff and students who participate in classes and educational activity groups.

## School Links

### Mapping v3.2.0-c

<https://mappingedu.ed-fi.org/#!/entity/3b036848-e7ba-ea11-80df-005056b36109/info?dataStandardId=7ec6133d-e7ba-ea11-80df-005056b36109>

### Schema v3.2.0-c

<https://schema.ed-fi.org/datahandbook-v320c/#!/School579>

### API v3.4.0

<https://api.ed-fi.org/v3.4.0/docs/index.html#/schools>

### Scenarios v3

<https://techdocs.ed-fi.org/display/EDFICERT/v3+Education+Organization+%3E+School+Scenarios>

## Natural Key

- SchoolId

## Used By

- FeederSchoolAssociation.School (as required)
- StaffSchoolAssociation.School (as required)
- StudentSchoolAssociation.School (as required)
- AcademicWeek.School (as required)
- BellSchedule.School (as required)
- Calendar.School (as required)
- ClassPeriod.School (as required)
- CourseOffering.School (as required)
- DisciplineAction.School (as optional)
- DisciplineIncident.School (as required)
- GradingPeriod.School (as required)
- Location.School (as required)
- RestraintEvent.School (as required)
- Section.School (as optional)
- Session.School (as required)
- StudentSchoolAttendanceEvent.School (as required)

## Mappings

| Parent | Properties        | Type    | Required | Table | Field | Other | Code / Notes                |
|--------|-------------------|---------|----------|-------|-------|-------|-----------------------------|
| \      | schoolId          | Integer | Identity | LOC   | CD    |       | GetNullableInteger(s("CD")) |
| \      | nameOfInstitution | String  | Required | LOC   | NM    |       | GetString(s("NM"))          |

|                                          |                                         |                                           |          |     |    |                         |                                                                                              |
|------------------------------------------|-----------------------------------------|-------------------------------------------|----------|-----|----|-------------------------|----------------------------------------------------------------------------------------------|
| \                                        | shortNameOf Institution                 | String                                    | Required | LOC | NM |                         | GetString(LOC_Functions.ShrinkSchoolName(s("NM")))<br><br>see function below                 |
| \                                        | schoolTypeDescriptor                    | Descriptor                                | Required | LOC | TY |                         | GetEdFiCodeValue(SchoolType, "LOC", "TY", drLOC!TY)                                          |
| \                                        | schoolCategories                        | List (Of schoolCategories)                | Optional |     |    |                         |                                                                                              |
| schoolCategories[]                       | schoolCategoryDescriptor                | Descriptor                                | Optional |     |    |                         |                                                                                              |
| \                                        | addresses                               | List (Of Education OrganizationAddresses) | Required |     |    |                         | Only one created                                                                             |
| addresses                                | addresses[1]                            | Education Organization Address            | Required |     |    |                         |                                                                                              |
| EducationOrganizationAddress[]           | addressTypeDescriptor                   | Descriptor                                | Required |     |    | hard code to 'Physical' | EdFiAddressTypes(EdFiAddressTypeEnum.Physical)                                               |
| EducationOrganizationAddress[]           | apartmentRoomSuiteNumber                | String                                    | Optional |     |    |                         |                                                                                              |
| EducationOrganizationAddress[]           | buildingSiteNumber                      | String                                    | Optional |     |    |                         |                                                                                              |
| EducationOrganizationAddress[]           | streetNumberName                        | String                                    | Required | LOC | AD |                         | GetString(s("AD"))                                                                           |
| EducationOrganizationAddress[]           | city                                    | String                                    | Required | LOC | CY |                         | GetString(s("CY"))                                                                           |
| EducationOrganizationAddress[]           | congressionalDistrict                   | String                                    | Optional |     |    |                         |                                                                                              |
| EducationOrganizationAddress[]           | countyFIPSCode                          | String                                    | Optional |     |    |                         |                                                                                              |
| EducationOrganizationAddress[]           | latitude                                | String                                    | Optional |     |    |                         |                                                                                              |
| EducationOrganizationAddress[]           | localeDescriptor                        | String                                    | Optional |     |    |                         |                                                                                              |
| EducationOrganizationAddress[]           | longitude                               | String                                    | Optional |     |    |                         |                                                                                              |
| EducationOrganizationAddress[]           | nameOfCounty                            | String                                    | Optional |     |    |                         |                                                                                              |
| EducationOrganizationAddress[]           | doNotPublishIndicator                   | Boolean                                   | Optional |     |    |                         |                                                                                              |
| EducationOrganizationAddress[]           | StateAbbreviationDescriptor             | Descriptor                                | Required | LOC | ST |                         | GetV3Descriptor("StateAbbreviationDescriptor", GetUpperCaseString(s("ST"))<br><br>Not Mapped |
| EducationOrganizationAddress[]           | postalCode                              | String                                    | Required | LOC | ZC |                         | GetString(s("ZC"))                                                                           |
| EducationOrganizationAddress[]           | Periods                                 | List (Of Periods)                         | Optional |     |    |                         |                                                                                              |
| EducationOrganizationAddress[].Periods[] | beginDate                               | Date                                      | Optional |     |    |                         |                                                                                              |
| EducationOrganizationAddress[].Periods[] | endDate                                 | Date                                      | Optional |     |    |                         |                                                                                              |
| \                                        | educationOrganizationCategories         | List (Of Education Organization Category) | Required |     |    |                         | Only one created                                                                             |
| educationOrganizationCategories[1]       | educationOrganizationCategories[1]      | Education Organization Category           | Required |     |    |                         |                                                                                              |
| educationOrganizationCategories[1]       | educationOrganizationCategoryDescriptor | Descriptor                                | Required |     |    | Hard code to 'School'   | EdFiEducationOrganizationCategoryTypeEnum.School                                             |

|                                                |                                                       |                                                        |          |     |                                                                                                                                                                                                                                                                                    |                     |                                                                                                                                                                                                                                         |
|------------------------------------------------|-------------------------------------------------------|--------------------------------------------------------|----------|-----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| \                                              | identificationCodes                                   | List (Of EducationOrganization IdentificationCode)     | Required |     |                                                                                                                                                                                                                                                                                    |                     |                                                                                                                                                                                                                                         |
| educationOrganizationIdentificationCodes[]     | identificationCode                                    | String                                                 | Optional | LOC | CC,SC,DC                                                                                                                                                                                                                                                                           |                     | (GetString(drLOC!CC) & GetString(drLOC!DC) & GetString(drLOC!SC))<br><br>For SEA concatenate these fields together CC+SC+DC with no spaces or punctuation. NOTE we may support other types in the future, right now we only support SEA |
| educationOrganizationIdentificationCodes[]     | educationOrganization IdentificationSystem Descriptor | Descriptor                                             | Optional |     |                                                                                                                                                                                                                                                                                    | Hard code to "SEA"  | EdFiEducationOrganization Identification SystemTypeEnum.SEA                                                                                                                                                                             |
| \                                              | educationOrganization Indicators                      | List (Of educationOrganization Indicators)             | Optional |     |                                                                                                                                                                                                                                                                                    |                     |                                                                                                                                                                                                                                         |
| educationOrganizationIndicators[]              | indicatorDescriptor                                   | Descriptor                                             | Optional |     |                                                                                                                                                                                                                                                                                    |                     |                                                                                                                                                                                                                                         |
| educationOrganizationIndicators[]              | designatedBy                                          | String                                                 | Optional |     |                                                                                                                                                                                                                                                                                    |                     |                                                                                                                                                                                                                                         |
| educationOrganizationIndicators[]              | indicatorGroupDescriptor                              | Descriptor                                             | Optional |     |                                                                                                                                                                                                                                                                                    |                     |                                                                                                                                                                                                                                         |
| educationOrganizationIndicators[]              | indicatorLevelDescriptor                              | Descriptor                                             | Optional |     |                                                                                                                                                                                                                                                                                    |                     |                                                                                                                                                                                                                                         |
| educationOrganizationIndicators[]              | indicatorValue                                        | String                                                 | Optional |     |                                                                                                                                                                                                                                                                                    |                     |                                                                                                                                                                                                                                         |
| educationOrganizationIndicators[]              | periods                                               | List (Of Periods)                                      | Optional |     |                                                                                                                                                                                                                                                                                    |                     |                                                                                                                                                                                                                                         |
| educationOrganizationIndicators[].periods[]    | beginDate                                             | Date                                                   | Optional |     |                                                                                                                                                                                                                                                                                    |                     |                                                                                                                                                                                                                                         |
| educationOrganizationIndicators[].periods[]    | endDate                                               | Date                                                   | Optional |     |                                                                                                                                                                                                                                                                                    |                     |                                                                                                                                                                                                                                         |
| \                                              | gradeLevels                                           | List (Of SchoolGradeLevel)                             | Required |     | Multiple created. There are 2 field values in the LOC table that represent the Low and High end of a range of grades. LO and HI.<br><br>They are integers. What we do is create a list of grades from the low to high values, using the mapped values and add each one to the list |                     |                                                                                                                                                                                                                                         |
| gradeLevels                                    | gradeLevels[1]                                        | SchoolGradeLevel                                       | Required |     |                                                                                                                                                                                                                                                                                    |                     |                                                                                                                                                                                                                                         |
| gradeLevels[1]                                 | gradeLevelDescriptor                                  | Descriptor                                             | Required | LOC | LO, HI                                                                                                                                                                                                                                                                             | Mapped              | GetSchoolGradeLevels(drLOC)<br><br>see function below                                                                                                                                                                                   |
| \                                              | institutionTelephones                                 | List (Of EducationOrganization InstitutionTelephone)   | Optional |     |                                                                                                                                                                                                                                                                                    |                     | Only one created                                                                                                                                                                                                                        |
| educationOrganization InstitutionTelephones[]  | institutionTelephone NumberTypeDescriptor             | Descriptor                                             | Optional |     |                                                                                                                                                                                                                                                                                    | Hard code to 'Main' | EdFiInstitution TelephoneNumber TypeEnum.Main                                                                                                                                                                                           |
| educationOrganization InstitutionTelephones[]  | telephoneNumber                                       | String                                                 | Optional | LOC | AC, TL                                                                                                                                                                                                                                                                             |                     | FilterNonNumerics(s("AC") & s("TL"))<br><br>Values from AC and TL combined into a sequence of integers                                                                                                                                  |
| \                                              | internationalAddresses                                | List (Of educationOrganization InternationalAddresses) | Optional |     |                                                                                                                                                                                                                                                                                    |                     |                                                                                                                                                                                                                                         |
| educationOrganization InternationalAddresses[] | addressLine1                                          | String                                                 | Optional |     |                                                                                                                                                                                                                                                                                    |                     |                                                                                                                                                                                                                                         |
| educationOrganization InternationalAddresses[] | addressLine2                                          | String                                                 | Optional |     |                                                                                                                                                                                                                                                                                    |                     |                                                                                                                                                                                                                                         |
| educationOrganization InternationalAddresses[] | addressLine3                                          | String                                                 | Optional |     |                                                                                                                                                                                                                                                                                    |                     |                                                                                                                                                                                                                                         |
| educationOrganization InternationalAddresses[] | addressLine4                                          | String                                                 | Optional |     |                                                                                                                                                                                                                                                                                    |                     |                                                                                                                                                                                                                                         |
| educationOrganization InternationalAddresses[] | addressTypeDescriptor                                 | Descriptor                                             | Optional |     |                                                                                                                                                                                                                                                                                    |                     |                                                                                                                                                                                                                                         |

|                                                   |                                                          |                                       |                 |  |  |                                                  |                             |
|---------------------------------------------------|----------------------------------------------------------|---------------------------------------|-----------------|--|--|--------------------------------------------------|-----------------------------|
| educationOrganization<br>InternationalAddresses[] | beginDate                                                | Date                                  | Optional        |  |  |                                                  |                             |
| educationOrganization<br>InternationalAddresses[] | countryDescriptor                                        | Descriptor                            | Optional        |  |  |                                                  |                             |
| educationOrganization<br>InternationalAddresses[] | endDate                                                  | Date                                  | Optional        |  |  |                                                  |                             |
| educationOrganization<br>InternationalAddresses[] | latitude                                                 | String                                | Optional        |  |  |                                                  |                             |
| educationOrganization<br>InternationalAddresses[] | longitude                                                | String                                | Optional        |  |  |                                                  |                             |
| \                                                 | internetAccess                                           | Descriptor                            | Optional        |  |  |                                                  |                             |
| \                                                 | localEducationAgen<br>cy<br>Reference                    | LocalEducationAge<br>ncy<br>Reference | Required        |  |  |                                                  |                             |
| localEducationAgency<br>Reference                 | localEducationAgen<br>cyId                               | Integer                               | <b>Required</b> |  |  | Use District Id<br>from<br>EdFiConfigurat<br>ion | OdsConfiguration.DistrictId |
| \                                                 | magnetSpecialProgr<br>am<br>EmphasisSchoolDe<br>scriptor | Descriptor                            | Optional        |  |  |                                                  |                             |
| \                                                 | operationalStatus<br>Descriptor                          | Descriptor                            | Optional        |  |  |                                                  |                             |
| \                                                 | shortNameOfInstituti<br>on                               | String                                | Condition<br>al |  |  |                                                  | Not a field in Aeries.      |
| \                                                 | administrativeFundi<br>ng<br>ControlDescriptor           | Descriptor                            | Optional        |  |  |                                                  |                             |
| \                                                 | charterApprovalAge<br>ncy<br>TypeDescriptor              | Descriptor                            | Optional        |  |  |                                                  |                             |
| \                                                 | charterApprovalSch<br>oolYearTypeRefere<br>nce           | schoolYearTypeRe<br>ference           | Optional        |  |  |                                                  |                             |
| charterApprovalSchool<br>YearTypeReference        | schoolYear                                               | Integer                               | Optional        |  |  |                                                  |                             |
| \                                                 | charterStatusDescr<br>iptor                              | Descriptor                            | Optional        |  |  |                                                  |                             |
| \                                                 | titleIPartASchool<br>DesignationDescript<br>or           | Descriptor                            | Optional        |  |  |                                                  |                             |
| \                                                 | webSite                                                  | String                                | Optional        |  |  |                                                  |                             |

## Code

```
Public Shared Function ShrinkSchoolName(SchoolName As String) As String

    Dim strTemp As String
    strTemp = ""

    strTemp = SchoolName
    strTemp = Replace(strTemp, "Junior High School", "JHS")
    strTemp = Replace(strTemp, "Jr High School", "JHS")
    strTemp = Replace(strTemp, "High School", "HS")
    strTemp = Replace(strTemp, "Middle School", "MS")
    strTemp = Replace(strTemp, "Elementary School", "Elem")

```

```
strTemp = Replace(strTemp, "Elementary", "Elem")
strTemp = Replace(strTemp, "Continuation", "Cont")
strTemp = Replace(strTemp, "Alternative", "Alt")
strTemp = Replace(strTemp, "Intermediate", "Int")
strTemp = Replace(strTemp, "School", "Schl")
```

```
Return strTemp
```

```
End Function
```

```
Public Function GetSchoolGradeLevels(ByVal drLOC As DataRow) As List(Of SchoolGradeLevel)
```

```
    Dim gradeLevels As List(Of SchoolGradeLevel) = New List(Of SchoolGradeLevel)
```

```
    Dim gradeLevelStrings As List(Of String) = New List(Of String)
```

```
    Try
```

```
        Dim lowGrade As Integer = drLOC!LO
```

```
        Dim highGrade As Integer = drLOC!HI
```

```
        Dim gradelevel As String = String.Empty
```

```
        For grade As Integer = lowGrade To highGrade
```

```
            AddGradeLevel(gradeLevels, grade)
```

```
        Next
```

```
    Catch ex As Exception
```

```
        ' TODO log exception then keep mapping
```

```
    End Try
```

```
    Return gradeLevels
```

```
End Function
```

```
Private Sub AddGradeLevel(ByRef gradeLevels As List(Of SchoolGradeLevel), ByVal grade As Integer)
```

```
    Dim gradelevelDescriptor As String = EdFiDescriptors.  
GetEdFiCodeValue(EdFiResourceDescriptors.GradeLevelDescriptor, "STU",  
"GR", grade.ToString(), OdsConfiguration.ConfigId, DbConnectionString)
```

```
    If Not String.IsNullOrEmpty(gradelevelDescriptor) Then
```

```
        Dim gradeLevel As SchoolGradeLevel = New  
SchoolGradeLevel With {
```

```
            .gradeLevelDescriptor = gradelevelDescriptor
```

```
        }
```

```
        If Not gradeLevels.Any(Function(g) g.  
gradeLevelDescriptor = gradeLevel.gradeLevelDescriptor) Then
```

```
                gradeLevels.Add(gradeLevel)
            End If
        End If

End Sub
```

```
{
  "id": "string",
  "educationOrganizationCategories": [
    {
      "educationOrganizationCategoryDescriptor": "string"
    }
  ],
  "gradeLevels": [
    {
      "gradeLevelDescriptor": "string"
    }
  ],
  "schoolId": 0,
  "charterApprovalSchoolYearTypeReference": {
    "schoolYear": 0,
    "link": {
      "rel": "string",
      "href": "string"
    }
  },
  "localEducationAgencyReference": {
    "localEducationAgencyId": 0,
    "link": {
      "rel": "string",
      "href": "string"
    }
  },
  "addresses": [
    {
      "addressTypeDescriptor": "string",
      "stateAbbreviationDescriptor": "string",
      "city": "string",
      "postalCode": "string",
      "streetNumberName": "string",
      "localeDescriptor": "string",
      "apartmentRoomSuiteNumber": "string",
      "buildingSiteNumber": "string",
      "congressionalDistrict": "string",
      "countyFIPSCode": "string",
      "doNotPublishIndicator": true,
    }
  ]
}
```

```
    "latitude": "string",
    "longitude": "string",
    "nameOfCounty": "string",
    "periods": [
      {
        "beginDate": "2021-09-15",
        "endDate": "2021-09-15"
      }
    ]
  },
  ],
  "administrativeFundingControlDescriptor": "string",
  "charterApprovalAgencyTypeDescriptor": "string",
  "charterStatusDescriptor": "string",
  "identificationCodes": [
    {
      "educationOrganizationIdentificationSystemDescriptor": "string",
      "identificationCode": "string"
    }
  ],
  "institutionTelephones": [
    {
      "institutionTelephoneNumberTypeDescriptor": "string",
      "telephoneNumber": "string"
    }
  ],
  "internationalAddresses": [
    {
      "addressTypeDescriptor": "string",
      "countryDescriptor": "string",
      "addressLine1": "string",
      "addressLine2": "string",
      "addressLine3": "string",
      "addressLine4": "string",
      "beginDate": "2021-09-15",
      "endDate": "2021-09-15",
      "latitude": "string",
      "longitude": "string"
    }
  ],
  "internetAccessDescriptor": "string",
  "magnetSpecialProgramEmphasisSchoolDescriptor": "string",
  "nameOfInstitution": "string",
  "operationalStatusDescriptor": "string",
  "schoolCategories": [
    {
      "schoolCategoryDescriptor": "string"
    }
  ],
  ],
  "schoolTypeDescriptor": "string",
```

```
"shortNameOfInstitution": "string",
"titleIPartASchoolDesignationDescriptor": "string",
"webSite": "string",
"_etag": "string"
}
```

## Ed-Fi 3.x Section Entity Mapping

### Overview

This document defines the mapping of Aeries data to the Ed-Fi data standard.



**Document Version** 1.0

**Last Updated** 07 Nov 2021

### Status

Ready for v3 certification.

### Description

This entity represents a setting in which organized instruction of course content is provided, in-person or otherwise, to one or more students for a given period of time. A course offering may be offered to more than one section.

### Section Links

#### Mapping v3.2.0-c

<https://mappingedu.ed-fi.org/#!/entity/66036848-e7ba-ea11-80df-005056b36109/info?dataStandardId=7ec6133d-e7ba-ea11-80df-005056b36109>

#### Schema v3.2.0-c

<https://schema.ed-fi.org/datahandbook-v320c/#!/Section580>

#### API v3.4.0

<https://api.ed-fi.org/v3.4.0/docs/index.html#/sections>

#### Scenarios v3

<https://techdocs.ed-fi.org/display/EDFICERT/v3+MasterSchedule+%3E+Section+Scenarios>

### Natural Key

- LocalCourseCode
- SchoolId
- SchoolYear
- SectionIdentifier
- SessionName

### Used By

- StaffSectionAssociation.Section (as required)
- StudentCohortAssociation.Section (as optional collection)
- StudentSectionAssociation.Section (as required)
- SurveySectionAssociation.Section (as required)
- SectionOrProgramChoice.Section (as required collection)
- GradebookEntry.Section (as required)
- SectionAttendanceTakenEvent.Section (as required)
- StudentSectionAttendanceEvent.Section (as required)

### Mapping

| Parent                  | Property                         | Type                           | Required | Table | Field        | Other                                                     | Code / Notes                                                                                                                                                                   |
|-------------------------|----------------------------------|--------------------------------|----------|-------|--------------|-----------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| \                       | availableCreditConversion        | Double                         | Optional |       |              |                                                           |                                                                                                                                                                                |
| \                       | availableCredits                 | Double                         | Required | MST   | CR           |                                                           | GetNullableDouble(s("CR"))                                                                                                                                                     |
| \                       | availableCreditTypeDescriptor    | Descriptor                     | Optional |       |              |                                                           |                                                                                                                                                                                |
| \                       | characteristics                  | List(Of SectionCharacteristic) | Optional |       |              |                                                           |                                                                                                                                                                                |
| characteristics[n]      | characteristics(1)               | SectionCharacteristic          | Optional |       |              |                                                           |                                                                                                                                                                                |
| characteristics[n]      | sectionCharacteristicDescriptor  | Descriptor                     | Optional |       |              |                                                           |                                                                                                                                                                                |
| \                       | classPeriods                     | Collection                     | Required |       |              |                                                           |                                                                                                                                                                                |
| classPeriods            | classPeriodReference             | ClassPeriodReference           | Required |       |              |                                                           |                                                                                                                                                                                |
| classPeriodReference    | classPeriodName                  | String                         | Required | MST   | PD, BL, DY   |                                                           | GetClassPeriodName(rowMST!PD, rowMST!BL, rowMST!DY)<br>see function below                                                                                                      |
| classPeriodReference    | schoolId                         | Integer                        | Required | MST   | SC           |                                                           | GetNullableInteger(rowMST!SC)                                                                                                                                                  |
| \                       | courseOfferingReference          | CourseOfferingReference        | Identity |       |              |                                                           |                                                                                                                                                                                |
| courseOfferingReference | sessionName                      | String                         | Identity | TRM   | D1,D2,SC, TM |                                                           | schoolYear = GetSchoolYear(rowMST!D1)<br><br>termName = GetTermName(rowMST!SC, rowMST!TM)<br><br>GetSessionName(schoolYear, termName)                                          |
| courseOfferingReference | localCourseCode                  | String                         | Identity | MST   | CN           |                                                           | GetString(rowMST!CN)                                                                                                                                                           |
| courseOfferingReference | schoolId                         | Integer                        | Identity | MST   | SC           |                                                           | GetNullableInteger(rowMST!SC)                                                                                                                                                  |
| courseOfferingReference | schoolYear                       | Integer                        | Identity | TRM   | D1           |                                                           | GetSchoolYear(rowMST!D1)<br>see function below                                                                                                                                 |
| \                       | educationalEnvironmentDescriptor | Descriptor                     | Required |       |              | map it.<br><br>if it's not mapped then return 'Classroom' | eduEnvironmentType = GetEdFiCodeValue(EducationalEnvironmentType, "MST", "EE", rowMST!EE)<br><br>If(String.IsNullOrEmpty(eduEnvironmentType), "Classroom", eduEnvironmentType) |
| \                       | instructionLanguageDescriptor    | Descriptor                     | Required |       |              |                                                           |                                                                                                                                                                                |
| \                       | locationReference                | LocationReference              | Identity |       |              |                                                           |                                                                                                                                                                                |
| locationReference       | classroomIdentificationCode      | String                         | Required | MST   | RM           | If blank, send "Unassigned".                              | GetClassroomIdentificationCode(rowMST!RM)<br><br>If(String.IsNullOrEmpty(room), "Unassigned", room)<br>see function below                                                      |
| locationReference       | schoolId                         | Integer                        | Required | MST   | SC           |                                                           | GetNullableInteger(rowMST!SC)                                                                                                                                                  |
| \                       | mediumOfInstructionDescriptor    | Descriptor                     | Optional |       |              |                                                           |                                                                                                                                                                                |
| \                       | populationServedDescriptor       | Descriptor                     | Optional |       |              |                                                           |                                                                                                                                                                                |
| \                       | programs                         | List(Of SectionProgram)        | Optional |       |              |                                                           |                                                                                                                                                                                |
| programs[n]             | programs(1)                      | SectionProgram                 | Optional |       |              |                                                           |                                                                                                                                                                                |
| programs[n]             | programReference                 | ProgramReference               | Optional |       |              |                                                           |                                                                                                                                                                                |
| programs[n]             | educationOrganizationId          | Integer                        | Optional |       |              |                                                           |                                                                                                                                                                                |
| programs[n]             | name                             | String                         | Optional |       |              |                                                           |                                                                                                                                                                                |
| programs[n]             | programTypeDescriptor            | Descriptor                     | Optional |       |              |                                                           |                                                                                                                                                                                |
| \                       | schoolReference                  | SchoolReference                | Identity |       |              |                                                           |                                                                                                                                                                                |
| schoolReference         | schoolId                         | Integer                        | Required | MST   | SC           |                                                           | GetNullableInteger(s("SC"))                                                                                                                                                    |

|                            |                                     |            |          |     |        |                |                                                              |
|----------------------------|-------------------------------------|------------|----------|-----|--------|----------------|--------------------------------------------------------------|
| \                          | sequenceOfCourse                    | Integer    | Required |     |        | hard code to 1 | GetNullableInteger(1)                                        |
| \                          | sectionIdentifier                   | String     | Identity | MST | SC, SE |                | GetUniqueSectionCode(s("SC"), s("SE"))<br>see function below |
| \                          | courseLevelCharacteristics          | Collection | Optional |     |        |                |                                                              |
| courseLevelCharacteristics | courseLevelCharacteristicDescriptor | String     | Optional |     |        |                |                                                              |
| \                          | offeredGradeLevels                  | Collection | Optional |     |        |                |                                                              |
| offeredGradeLevels         | gradeLevelDescriptor                | Descriptor | Optional |     |        |                |                                                              |

```
Public Shared Function GetClassPeriodName(ByVal period As String, ByVal
block As Integer, ByVal day As String) As String
```

```
    'Examples: "FLEXP1, 1 MTWTF", "2-3 MTWTF", "5 MW", "6 A-DAYS"
    Return period & (IIf(block > 1 AndAlso IsNumeric(period), "-" &
(CInt(period) + block - 1), "")) & RTrim(" " & day)
```

```
End Function
```

```
Public Shared Function GetSessionName(ByVal schoolYear As Integer,
ByVal term As String) As String
```

```
    Return schoolYear.ToString() & " " & term
```

```
End Function
```

```
Public Shared Function GetTermName(ByVal schoolcode As Integer, ByVal
termCode As String, ByVal connectionString As String) As String
```

```
    'Ref: https://mappedu.ed-fi.org/#/element/e778beed-1c80-ea11-80df-005056b36109/details?dataStandardId=e8efbbaa-1b80-ea11-80df-005056b36109
```

```
    Select Case termCode
        Case "Y"
            Return "Year Round"
        Case "S"
            Return "Spring Semester"
        Case "F"
            Return "Fall Semester"
```

```
End Select
```

```
If Trimester(schoolcode, connectionString) Then
```

```
    Select Case termCode
        Case "1"
            Return "First Trimester"
        Case "2"
            Return "Second Trimester"
```

```

        Case "3"
            Return "Third Trimester"
        End Select
    Else
        Select Case termCode
            Case "1"
                Return "First Quarter"
            Case "2"
                Return "Second Quarter"
            Case "3"
                Return "Third Quarter"
            Case "4"
                Return "Fourth Quarter"
        End Select
    End If

    Return termCode

End Function

Public Shared Function GetClassroomIdentificationCode(ByVal room As
String) As String

    Return IIf(String.IsNullOrEmpty(room), "Unassigned", room)

End Function

Public Shared Function GetUniqueSectionCode(ByVal school As String,
ByVal section As String) As String

    Return school & "-" & section

End Function

Public Shared Function GetSchoolYear(ByVal SchoolDate As String) As
Integer?

    Dim schoolYear As Integer? = Nothing
    Dim schoolDateValue As Date

    If Date.TryParse(SchoolDate, schoolDateValue) Then
        schoolYear = EdFiV2Functions.GetSchoolYearFromDate
(schoolDateValue)
    End If

    Return schoolYear

Public Shared Function GetSchoolYearFromDate(ByVal SchoolDate As Date)

```

As Integer

```
' Ed-Fi sometimes uses a single year as 'school year'. It's
actually, just the end year of a full school year in the form YYYY-YYYY
Return GetEndYear(SchoolDate)
```

End Function

```
Public Shared Function GetEndYear(ByVal startDate As Date) As Integer
```

```
    Dim endYear As Integer = Nothing
    Dim startMonth As Integer = Month(startDate)
```

```
    If startMonth >= 7 Then                                ' July-Dec = "this
year" (i.e. 9/1/2012 = 2012-2013, so 2013)
        endYear = Year(startDate) + 1
    Else ' startMonth < 7                                '
Jan-June = "last year" (i.e. 3/1/2012 = 2011-2012, so 2012)
        endYear = Year(startDate)
    End If
```

```
    Return endYear
```

End Function

## Ed-Fi 3.x Session Entity Mapping

### Overview

This document defines the mapping of Aeries data to the Ed-Fi data standard.



**Document Version 1.0**

**Last Updated 07 Nov 2021**

### Status

Ready for v3 certification.

### Description

A term in the school year, generally a unit of time into which courses are scheduled, instruction occurs and by which credits are awarded. Sessions may be interrupted by vacations or other events.

### Note

We start by getting a list of terms from the TRM table. From each row we get the start data, end date, and term.

Then we check to see if the school is an elementary school or secondary school. If an elementary school pull the data from the TRM table, else get it from the GRP table.

### Session Links

#### Mapping v3.2.0-c

<https://mappingedu.ed-fi.org/#!/entity/af036848-e7ba-ea11-80df-005056b36109/info?dataStandardId=7ec6133d-e7ba-ea11-80df-005056b36109>

### Schema v3.2.0-c

<https://schema.ed-fi.org/datahandbook-v320c/##Session582>

### API v3.4.0

<https://api.ed-fi.org/v3.4.0/docs/index.html#/sessions>

### Scenarios v3

<https://techdocs.ed-fi.org/display/EDFICERT/v3+Education+Organization+Calendar+%3E+Sessions+Scenarios>

## Natural Key

- SchoolId
- SchoolYear
- SessionName

## Used By

- CourseOffering.Session (as required)
- StudentSchoolAttendanceEvent.Session (as required)
- Survey.Session (as optional)

## Mappings

These are the actual mappings used in code

| Parent                      | Properties                  | Type                                 | Required | Table         | Field         | Other      | Code / Notes                                                                                           |
|-----------------------------|-----------------------------|--------------------------------------|----------|---------------|---------------|------------|--------------------------------------------------------------------------------------------------------|
| \                           | beginDate                   | Date                                 | Required | TRM           | D1            | BeginDate  | GetNullableDate(s("BeginDate"))                                                                        |
| \                           | endDate                     | Date                                 | Required | TRM           | D2            | EndDate    | GetNullableDate(s("EndDate"))                                                                          |
| \                           | sessionName                 | String                               | Identity | TRM           | D1,D2,SC,TM   |            | schoolYear & " " & termDescriptor                                                                      |
| \                           | termDescriptor              | Descriptor                           | Identity | TRM           | TM            |            | GetTermDescriptor(<br>rowTRM!SC, rowTRM!TM)<br><br>see function below                                  |
| \                           | schoolYearType<br>Reference | SchoolYearType<br>Reference          | Identity |               |               |            |                                                                                                        |
| schoolYearType<br>Reference | schoolYear                  | Integer                              | Identity | TRM           | D1            | BeginDate  | GetSchoolYear(<br>rowTRM!BeginDate)<br><br>see function below                                          |
| \                           | gradingPeriods              | List(Of<br>SessionGrading<br>Period) | Required |               |               |            |                                                                                                        |
| gradingPeriods              | gradingPeriodReference      | gradingPeriodReferen<br>ce           | Required |               |               |            |                                                                                                        |
| gradingPeriodReference      | gradingPeriod<br>Reference  | GradingPeriod<br>Reference           | Required |               |               |            |                                                                                                        |
| gradingPeriodReference      | schoolId                    | Integer                              | Required | TRM or<br>GRP | SC            |            | GetNullableInteger(<br>rowGRPTRM!SC)                                                                   |
| gradingPeriodReference      | gradingPeriodDescriptor     | Descriptor                           | Required | TRM or<br>GRP | TM            | StateCode  | GetEdFiCodeValue(<br>GradingPeriodDescriptor,<br><br>"GRP", "C1", rowGRPTRM!<br>StateCode)             |
| gradingPeriodReference      | periodSequence              | integer                              | Required | TRM or<br>GRP | SEQ 1-12      |            | GetNullableInteger(s("SEQ"))                                                                           |
| gradingPeriodReference      | schoolYear                  | integer                              | Required |               |               |            | School year from code.                                                                                 |
| \                           | schoolReference             | SchoolReference                      | Identity |               |               |            |                                                                                                        |
| schoolReference             | schoolId                    | Integer                              | Identity | TRM           | SC            |            | GetNullableInteger(s("SC"))                                                                            |
| \                           | totalInstructional<br>Days  | Integer                              | Required | TRM           | SC,<br>D1, D2 | Calculated | GetTotalInstructionalDays(<br>drTRM!SC, rowTRM!BeginDate,<br>rowTRM!EndDate)<br><br>see function below |

|                       |                        |                                |          |  |  |  |  |
|-----------------------|------------------------|--------------------------------|----------|--|--|--|--|
| \                     | academicWeeks          | List(Of SessionAcademic Weeks) | Optional |  |  |  |  |
| academicWeeks[]       | academicWeek Reference | AcademicWeek Reference         | Optional |  |  |  |  |
| academicWeekReference | schoolId               | Integer                        | Optional |  |  |  |  |
| academicWeekReference | weekIdentifier         | String                         | Optional |  |  |  |  |

## Code

```
Public Shared Function GetTermDescriptor(ByVal SC As Integer, ByVal TM As String, ByVal ConnectionString As String) As String
```

```
    Select Case TM
        Case "Y"           Return "Year Round"
        Case "S"           Return "Spring Semester"
        Case "F"           Return "Fall Semester"
    End Select
```

```
    If Trimester(SC, ConnectionString) Then
        Select Case TM
            Case "1"       Return "First Trimester"
            Case "2"       Return "Second Trimester"
            Case "3"       Return "Third Trimester"
        End Select
    Else
```

```
        Select Case TM
            Case "1"       Return "First Quarter"
            Case "2"       Return "Second Quarter"
            Case "3"       Return "Third Quarter"
            Case "4"       Return "Fourth Quarter"
        End Select
    End If
```

```
    Return TM
End Function
```

```
Public Shared Function GetSchoolYear(ByVal SchoolDate As String) As Integer?
```

```
    Dim schoolYear As Integer? = Nothing
    Dim schoolDateValue As Date
```

```
    If Date.TryParse(SchoolDate, schoolDateValue) Then
        schoolYear = EdFiV2Functions.GetSchoolYearFromDate(schoolDateValue)
    End If
```

```
    Return schoolYear
```

```
End Function
```

```
Public Shared Function GetSchoolYearFromDate(ByVal SchoolDate As Date)  
As Integer
```

```
    ' Ed-Fi sometimes uses a single year as 'school year'. It's  
    actually, just the end year of a full school year in the form YYYY-YYYY  
    Return GetEndYear(SchoolDate)
```

```
End Function
```

```
Public Shared Function GetEndYear(ByVal startDate As Date) As Integer
```

```
    Dim endYear As Integer = Nothing  
    Dim startMonth As Integer = Month(startDate)
```

```
    If startMonth >= 7 Then                                     ' July-Dec = "this  
year" (i.e. 9/1/2012 = 2012-2013, so 2013)  
        endYear = Year(startDate) + 1  
    Else ' startMonth < 7                                     ' Jan-June = "last  
year" (i.e. 3/1/2012 = 2011-2012, so 2012)  
        endYear = Year(startDate)
```

```
    End If
```

```
    Return endYear
```

```
End Function
```

## Ed-Fi 3.x Staff Cohort Association Entity Mapping

### Overview

This document defines the mapping of Aeries data to the Ed-Fi data standard.

### Status

Ready for v3.x Certification.

### Description

This association indicates the Staff associated with a cohort of students.

### Staff Cohort Association Links

#### Mapping v3.2.0-c

<https://mappingedu.ed-fi.org/#!/entity/24046848-e7ba-ea11-80df-005056b36109/info?dataStandardId=7ec6133d-e7ba-ea11-80df-005056b36109>

#### Schema v3.2.0-c

<https://schema.ed-fi.org/datahandbook-v320c/#!/StaffCohortAssociation599>

#### API v3.4.0

<https://api.ed-fi.org/v3.4.0/docs/index.html#/staffCohortAssociations>



**Document Version 1.1**

**Last Updated 24 Oct 2021**

## Scenarios v3

<https://techdocs.ed-fi.org/display/EDFICERT/v3+StudentCohort+%3E+StaffCohortAssociation+Scenarios>

## Natural Key

- BeginDate
- CohortIdentifier
- EducationOrganizationId
- StaffUniqueid

## Used By

- None

## Entity Mapping

| Parent          | Property                | Type            | Cardinality | Table | Field     | Other                     | Code / Notes                                                               |
|-----------------|-------------------------|-----------------|-------------|-------|-----------|---------------------------|----------------------------------------------------------------------------|
| \               | beginDate               | Date            | Identity    |       | StartDate | "7/1" + Current Year      | GetNullableDate(s("StartDate"))                                            |
| \               | cohortReference         | CohortReference | Identity    |       |           |                           |                                                                            |
| cohortReference | educationOrganizationId | Integer         | Identity    | SGD   | SCL       |                           | scl = GetNullableInteger(rowSGD!SCL)<br>If(scl > 0, scl.Value, DistrictId) |
| cohortReference | cohortIdentifier        | String          | Identity    | SGS   | GI        |                           | GetString(s("GI"))                                                         |
| cohortReference | link                    | Link            | Optional    |       |           |                           |                                                                            |
| \               | endDate                 | Date            | Required    |       | EndDate   | "6/30" + Current Year + 1 | GetNullableDate(s("EndDate"))                                              |
| \               | staffReference          | StaffReference  | Identity    |       |           |                           |                                                                            |
| staffReference  | staffUniqueid           | String          | Identity    | SGS   | ID        |                           | GetString(s("ID"))                                                         |
| \               | studentRecordAccess     | Boolean         | Optional    |       |           |                           |                                                                            |

## Ed-Fi 3.x Staff Edu Org Assign Assoc Entity Mapping

### Overview

This document defines the mapping of Aeries data to the Ed-Fi data standard.



### Status

Ready for v3 certification.

**Document Version 1.0**

**Last Updated 07 Nov 2021**

### Description

This association indicates the education organization to which a staff member provides services; also known as school of service.

## Staff Education Organization Assignment Association Links

### Mapping v3.2.0-c

<https://mappingedu.ed-fi.org/#!/entity/3b046848-e7ba-ea11-80df-005056b36109/info?dataStandardId=7ec6133d-e7ba-ea11-80df-005056b36109>

### Schema v3.2.0-c

<https://schema.ed-fi.org/datahandbook-v320c/#!/StaffEducationOrganizationAssignmentAssociation600>

## API v3.4.0

<https://api.ed-fi.org/v3.4.0/docs/index.html#/staffEducationOrganizationAssignmentAssociations>

## Scenarios v3

<https://techdocs.ed-fi.org/display/EDFICERT/v3+StaffAssociation+%3E+StaffEducationOrganizationAssignmentAssociation+Scenarios>

## Natural Key

- BeginDate
- EducationOrganizationId
- StaffClassificationDescriptor
- StaffUniqueId

## Used By

- None

## Mapping

| Parent                                                             | Property                                                           | Type                                                     | Required        | Table     | Field | Other      | Code / Notes                                                                           |
|--------------------------------------------------------------------|--------------------------------------------------------------------|----------------------------------------------------------|-----------------|-----------|-------|------------|----------------------------------------------------------------------------------------|
| \                                                                  | beginDate                                                          | Date                                                     | <b>Identity</b> | STA / STJ | SD    | BeginDate  | GetNullableDate(s("BeginDate"))                                                        |
| \                                                                  | educationOrganizationReference                                     | EducationOrganizationReference                           | Identity        |           |       |            |                                                                                        |
| educationOrganizationReference                                     | educationOrganizationId                                            | Integer                                                  | <b>Identity</b> | STA / STJ | PSC   | DistrictId | If(rowSTAJ!PSC = 0, DistrictId, rowSTAJ!PSC)                                           |
| \                                                                  | employmentStaffEducationOrganizationEmploymentAssociationReference | StaffEducationOrganizationEmploymentAssociationReference | Optional        |           |       |            |                                                                                        |
| employmentStaffEducationOrganizationEmploymentAssociationReference | educationOrganizationId                                            | Integer                                                  | Optional        |           |       |            |                                                                                        |
| employmentStaffEducationOrganizationEmploymentAssociationReference | employmentStatusDescriptor                                         | Descriptor                                               | Optional        |           |       |            |                                                                                        |
| employmentStaffEducationOrganizationEmploymentAssociationReference | hireDate                                                           | Date                                                     | Optional        |           |       |            |                                                                                        |
| employmentStaffEducationOrganizationEmploymentAssociationReference | staffUniqueId                                                      | String                                                   | Optional        |           |       |            |                                                                                        |
| \                                                                  | endDate                                                            | Date                                                     | <b>Required</b> | STA / STJ | ED    | EndDate    | GetNullableDate(s("EndDate"))                                                          |
| \                                                                  | orderOfAssignment                                                  | Integer                                                  | Optional        |           |       |            |                                                                                        |
| \                                                                  | positionTitle                                                      | String                                                   | <b>Required</b> | STF       | TI    |            | GetString(s("TI"))                                                                     |
| \                                                                  | staffClassificationDescriptor                                      | Descriptor                                               | <b>Identity</b> | STA / STJ | JC    |            | GetEdFiCodeValue(StaffClassificationDescriptor, rowSTAJ!SourceTable, "JC", rowSTAJ!JC) |
| \                                                                  | staffReference                                                     | StaffReference                                           | Identity        |           |       |            |                                                                                        |
| staffReference                                                     | staffUniqueId                                                      | String                                                   | <b>Identity</b> | STF       | ID    |            | GetString(s("ID"))                                                                     |
| \                                                                  | credentialReference                                                | Reference                                                | Optional        |           |       |            |                                                                                        |
| credentialReference                                                | identifier                                                         | String                                                   | Optional        |           |       |            |                                                                                        |
| credentialReference                                                | stateOfIssueStateAbbreviationDescriptor                            | Descriptor                                               | Optional        |           |       |            |                                                                                        |

## Ed-Fi 3.x Staff Entity Mapping

## Overview

This document defines the mapping of Aeries data to the Ed-Fi data standard.



**Document Version** 1.0

**Last Updated** 07 Nov 2021

## Status

Ready for v3 certification

## Description

This entity represents an individual who performs specified activities for any public or private education institution or agency that provides instructional and/or support services to students or staff at the early childhood level through high school completion. For example, this includes:

1. An "employee" who performs services under the direction of the employing institution or agency is compensated for such services by the employer and is eligible for employee benefits and wage or salary tax withholdings
2. A "contractor" or "consultant" who performs services for an agreed upon fee or an employee of a management service contracted to work on site
3. A "volunteer" who performs services on a voluntary and uncompensated basis
4. An in-kind service provider
5. An independent contractor or businessperson working at a school site.

## Staff Links

### Mapping v3.2.0-c

<https://mappingedu.ed-fi.org/#!/entity/c5036848-e7ba-ea11-80df-005056b36109/info?dataStandardId=7ec6133d-e7ba-ea11-80df-005056b36109>

### Schema v3.2.0-c

<https://schema.ed-fi.org/datahandbook-v320c/#!/Staff583>

### API v3.4.0

<https://api.ed-fi.org/v3.4.0/docs/index.html#/staffs>

### Scenarios v3

<https://techdocs.ed-fi.org/display/EDFICERT/v3+StaffAssociation+%3E+Staff+Scenarios>

## Natural Key

- StaffUniqueId

## Used By

- StaffCohortAssociation.Staff (as required)
- StaffDisciplineIncidentAssociation.Staff (as required)
- StaffEducationOrganizationAssignmentAssociation.Staff (as required)
- StaffEducationOrganizationContactAssociation.Staff (as required)
- StaffEducationOrganizationEmploymentAssociation.Staff (as required)
- StaffProgramAssociation.Staff (as required)
- StaffSchoolAssociation.Staff (as required)
- StaffSectionAssociation.Staff (as required)
- SurveyResponseStaffTargetAssociation.Staff (as required)
- SurveySectionResponseStaffTargetAssociation.Staff (as required)
- SurveyResponderChoice.Staff (as required)
- ServiceProvider.Staff (as required)
- ContractedStaff.Staff (as required)
- DisciplineAction.Staff (as optional collection)
- DisciplineIncident.Staff (as optional)
- Intervention.Staff (as optional collection)
- Payroll.Staff (as required)
- SectionAttendanceTakenEvent.Staff (as optional)

- StaffAbsenceEvent.Staff (as required)
- StaffLeave.Staff (as required)

## Mapping

| Parent                | Property                                       | Type                         | Required    | Table | Field | Other | Code / Notes                                                                                                                                                                                                          |
|-----------------------|------------------------------------------------|------------------------------|-------------|-------|-------|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| \                     | addresses                                      | List(Of StaffAddress)        | Optional    |       |       |       | Note: In API property may be "address" but documentation shows "addresses"                                                                                                                                            |
| addresses[]           | addressTypeDescriptor                          | Descriptor                   | Optional    |       |       |       |                                                                                                                                                                                                                       |
| addresses[]           | apartmentRoom<br>SuiteNumber                   | String                       | Optional    |       |       |       |                                                                                                                                                                                                                       |
| addresses[]           | buildingSiteNumber                             | String                       | Optional    |       |       |       |                                                                                                                                                                                                                       |
| addresses[]           | city                                           | String                       | Optional    |       |       |       |                                                                                                                                                                                                                       |
| addresses[]           | congressionalDistrict                          | String                       | Optional    |       |       |       |                                                                                                                                                                                                                       |
| addresses[]           | countyFIPSCode                                 | String                       | Optional    |       |       |       |                                                                                                                                                                                                                       |
| addresses[]           | latitude                                       | String                       | Optional    |       |       |       |                                                                                                                                                                                                                       |
| addresses[]           | longitude                                      | String                       | Optional    |       |       |       |                                                                                                                                                                                                                       |
| addresses[]           | nameOfCounty                                   | String                       | Optional    |       |       |       |                                                                                                                                                                                                                       |
| addresses[]           | postalCode                                     | String                       | Optional    |       |       |       |                                                                                                                                                                                                                       |
| addresses[]           | stateAbbreviationDescriptor                    |                              | Optional    |       |       |       |                                                                                                                                                                                                                       |
| addresses[]           | streetNumberName                               | String                       | Optional    |       |       |       |                                                                                                                                                                                                                       |
| addresses[]           | localeDescriptor                               | Descriptor                   | Optional    |       |       |       |                                                                                                                                                                                                                       |
| addresses[]           | doNotPublishIndicator                          | Boolean                      | Optional    |       |       |       |                                                                                                                                                                                                                       |
| addresses[]           | Periods                                        | List (Of Period)             |             |       |       |       |                                                                                                                                                                                                                       |
| addresses[].Periods[] | beginDate                                      | Date                         | Optional    |       |       |       |                                                                                                                                                                                                                       |
| addresses[].Periods[] | endDate                                        | Date                         | Optional    |       |       |       |                                                                                                                                                                                                                       |
| \                     | birthDate                                      | Date                         | Conditional | STF   | BD    |       | GetNullableDate(s("BD"))                                                                                                                                                                                              |
| \                     | citizenshipStatusDescriptor                    | Descriptor                   | Optional    |       |       |       |                                                                                                                                                                                                                       |
| \                     | credentials                                    | List(Of StaffCredential)     | Optional    |       |       |       |                                                                                                                                                                                                                       |
| credentials[]         | credentialReference                            | Class                        | Optional    |       |       |       |                                                                                                                                                                                                                       |
| credentials[]         | credentialIdentifier                           | String                       | Optional    |       |       |       |                                                                                                                                                                                                                       |
| credentials[]         | stateOfIssueState<br>AbbreviationDescriptor    | Descriptor                   | Optional    |       |       |       |                                                                                                                                                                                                                       |
| \                     | electronicMails                                | List(Of StaffElectronicMail) | Required    |       |       |       |                                                                                                                                                                                                                       |
| electronicMails[]     | electronicMailAddress                          | String                       | Required    | STF   | EM    |       | GetString(s("EM"))                                                                                                                                                                                                    |
| electronicMails[]     | electronicMailTypeDescriptor                   | Descriptor                   | Conditional |       |       |       | GetV3Descriptor<br>("ElectronicMail<br>TypeDescriptor", "Work"))                                                                                                                                                      |
| electronicMails[]     | primaryEmailAddressIndicator                   | Boolean                      | Optional    |       |       |       |                                                                                                                                                                                                                       |
| electronicMails[]     | doNotPublishIndicator                          | Boolean                      | Optional    |       |       |       |                                                                                                                                                                                                                       |
| \                     | firstName                                      | String                       | Required    | STF   | FN    |       | GetString(s("FN"))                                                                                                                                                                                                    |
| \                     | generationCodeSuffix                           | String                       | Required    | STF   | SF    |       | GetString(s("SF"))                                                                                                                                                                                                    |
| \                     | highestCompletedLevel<br>OfEducationDescriptor | Descriptor                   | Required    | STF   | EL    |       | GetEdFiCodeValue(<br>LevelOfEducationDescriptor,<br>"STF", "EL", rowSTF!EL)                                                                                                                                           |
| \                     | highlyQualifiedTeacher                         | Boolean                      | Required    |       |       |       | set to 'Nothing' for<br>nullable boolean type<br><br>Incompatible with Aeries<br>and historical CA data<br>reporting standards.<br>In CA, Highly Qualified is<br>established for each class<br>a teacher is teaching. |

|                                   | hispanicLatinoEthnicity                   | Boolean                                  | Required | STF | ETH |  | GetEdFiCodeValue( BooleanType, "STU", "ETH", rowSTF!ETH) |
|-----------------------------------|-------------------------------------------|------------------------------------------|----------|-----|-----|--|----------------------------------------------------------|
| \                                 | identificationCodes                       | List(Of StaffIdentificationCode)         | Optional |     |     |  |                                                          |
| identificationCodes[]             | assigningOrganizationIdentificationCode   | String                                   | Optional |     |     |  |                                                          |
| identificationCodes[]             | identificationCode                        | String                                   | Optional |     |     |  | STF.ID<br>STF.CID                                        |
| identificationCodes[]             | staffIdentificationSystemDescriptor       | Descriptor                               | Optional |     |     |  | "District"<br>"State"                                    |
| \                                 | identificationDocuments                   | List(Of StaffIdentificationDocument)     | Optional |     |     |  | Not Collected in Aeries                                  |
| identificationDocuments[]         | identificationDocuments(1)                | StaffIdentificationDocument              | Optional |     |     |  |                                                          |
| identificationDocuments[]         | documentExpirationDate                    | Date                                     | Optional |     |     |  |                                                          |
| identificationDocuments[]         | documentTitle                             | String                                   | Optional |     |     |  |                                                          |
| identificationDocuments[]         | identificationDocumentUseDescriptor       | Descriptor                               | Optional |     |     |  |                                                          |
| identificationDocuments[]         | issuerCountryDescriptor                   | String                                   | Optional |     |     |  |                                                          |
| identificationDocuments[]         | issuerDocumentIdentificationCode          | String                                   | Optional |     |     |  |                                                          |
| identificationDocuments[]         | issuerName                                | String                                   | Optional |     |     |  |                                                          |
| identificationDocuments[]         | personalInformationVerificationDescriptor | Descriptor                               | Optional |     |     |  |                                                          |
| \                                 | personalIdentificationDocuments           | List(Of PersonalIdentificationDocuments) | Optional |     |     |  | Not Collected in Aeries                                  |
| personalIdentificationDocuments[] | identificationDocumentUseDescriptor       | Descriptor                               | Optional |     |     |  |                                                          |
| personalIdentificationDocuments[] | personalInformationVerificationDescriptor | Descriptor                               | Optional |     |     |  |                                                          |
| personalIdentificationDocuments[] | issuerCountryDescriptor                   | Descriptor                               | Optional |     |     |  |                                                          |
| personalIdentificationDocuments[] | documentExpirationDate                    | Date                                     | Optional |     |     |  |                                                          |
| personalIdentificationDocuments[] | documentTitle                             | String                                   | Optional |     |     |  |                                                          |
| personalIdentificationDocuments[] | issuerDocumentIdentificationCode          | String                                   | Optional |     |     |  |                                                          |
| personalIdentificationDocuments[] | issuerName                                | String                                   | Optional |     |     |  |                                                          |
| \                                 | internationalAddresses                    | List(Of StaffInternationalAddress)       | Optional |     |     |  | Not Collected in Aeries                                  |
| internationalAddresses[]          | addressLine1                              | String                                   | Optional |     |     |  |                                                          |
| internationalAddresses[]          | addressLine2                              | String                                   | Optional |     |     |  |                                                          |
| internationalAddresses[]          | addressLine3                              | String                                   | Optional |     |     |  |                                                          |
| internationalAddresses[]          | addressLine4                              | String                                   | Optional |     |     |  |                                                          |
| internationalAddresses[]          | addressTypeDescriptor                     | Descriptor                               | Optional |     |     |  |                                                          |
| internationalAddresses[]          | beginDate                                 | Date                                     | Optional |     |     |  |                                                          |
| internationalAddresses[]          | countryDescriptor                         | Descriptor                               | Optional |     |     |  |                                                          |
| internationalAddresses[]          | endDate                                   | Date                                     | Optional |     |     |  |                                                          |

|                          |                                |                             |          |     |         |  |                                                                                    |
|--------------------------|--------------------------------|-----------------------------|----------|-----|---------|--|------------------------------------------------------------------------------------|
| internationalAddresses[] | latitude                       | String                      | Optional |     |         |  |                                                                                    |
| internationalAddresses[] | longitude                      | String                      | Optional |     |         |  |                                                                                    |
| \                        | languages                      | List(Of StaffLanguage)      | Optional |     |         |  | Not Collected in Aeries                                                            |
| languages[]              | languageDescriptor             | Descriptor                  | Optional |     |         |  |                                                                                    |
| languages[]              | uses                           | List(Of StaffLanguageUse)   | Optional |     |         |  |                                                                                    |
| languages[]              | languageUseDescriptor          | Descriptor                  | Optional |     |         |  |                                                                                    |
| \                        | lastName                       | String                      | Required | STF | LN      |  | GetString(s("LN"))                                                                 |
| \                        | loginId                        | String                      | Optional |     |         |  |                                                                                    |
| \                        | maidenName                     | String                      | Optional |     |         |  |                                                                                    |
| \                        | middleName                     | String                      | Required | STF | MN      |  | GetString(s("MN"))                                                                 |
| \                        | oldEthnicityDescriptor         | Descriptor                  | Optional |     |         |  | Not Collected in Aeries                                                            |
| \                        | otherNames                     | List(Of StaffOtherName)     | Optional |     |         |  | Not Collected in Aeries                                                            |
| otherNames[]             | firstName                      | String                      | Optional |     |         |  |                                                                                    |
| otherNames[]             | generationCodeSuffix           | String                      | Optional |     |         |  |                                                                                    |
| otherNames[]             | lastName                       | String                      | Optional |     |         |  |                                                                                    |
| otherNames[]             | middleName                     | String                      | Optional |     |         |  |                                                                                    |
| otherNames[]             | otherNameTypeDescriptor        | Descriptor                  | Optional |     |         |  |                                                                                    |
| otherNames[]             | personalTitlePrefix            | String                      | Optional |     |         |  |                                                                                    |
| \                        | personalTitlePrefix            | String                      | Optional |     |         |  |                                                                                    |
| \                        | racess                         | List(Of StaffRace)          | Optional | STF | RC{1-5} |  | This might be able to be extracted in a future release if requested by a customer. |
| Race[]                   | raceDescriptor                 | Descriptor                  | Optional |     |         |  |                                                                                    |
| \                        | recognitions                   | List(Of Recognitions)       | Optional |     |         |  |                                                                                    |
| recognition[]            | recognitionTypeDescriptor      | Descriptor                  | Optional |     |         |  |                                                                                    |
| recognition[]            | achievementCategoryDescriptor  | Descriptor                  | Optional |     |         |  |                                                                                    |
| recognition[]            | achievementCategorySystem      | String                      | Optional |     |         |  |                                                                                    |
| recognition[]            | achievementTitle               | String                      | Optional |     |         |  |                                                                                    |
| recognition[]            | criteria                       | String                      | Optional |     |         |  |                                                                                    |
| recognition[]            | criteriaURL                    | String                      | Optional |     |         |  |                                                                                    |
| recognition[]            | evidenceStatement              | String                      | Optional |     |         |  |                                                                                    |
| recognition[]            | imageUrl                       | String                      | Optional |     |         |  |                                                                                    |
| recognition[]            | issuerName                     | String                      | Optional |     |         |  |                                                                                    |
| recognition[]            | issuerOriginURL                | String                      | Optional |     |         |  |                                                                                    |
| recognition[]            | recognitionAwardDate           | Date                        | Optional |     |         |  |                                                                                    |
| recognition[]            | recognitionAwardExpiresDate    | Date                        | Optional |     |         |  |                                                                                    |
| recognition[]            | recognitionDescription         | String                      | Optional |     |         |  |                                                                                    |
| \                        | sexDescriptor                  | Descriptor                  | Required | STF | GN      |  | GetEdFiCodeValue (SexDescriptor, "STF", "GN", rowSTF!GN)                           |
| \                        | staffUniqueid                  | String                      | Identity | STF | ID      |  | GetString(s("ID"))                                                                 |
| \                        | telephones                     | List(Of StaffTelephone)     | Optional |     |         |  |                                                                                    |
| telephones[]             | orderOfPriority                | Integer                     | Optional |     |         |  |                                                                                    |
| telephones[]             | telephoneNumber                | String                      | Optional |     |         |  |                                                                                    |
| telephones[]             | telephoneNumberTypeDescriptor  | Descriptor                  | Optional |     |         |  |                                                                                    |
| telephones[]             | textMessageCapabilityIndicator | Boolean                     | Optional |     |         |  |                                                                                    |
| telephones[]             | doNotPublishIndicator          | Boolean                     | Optional |     |         |  |                                                                                    |
| \                        | tribalAffiliations             | List(Of tribalAffiliations) | Optional |     |         |  |                                                                                    |
| tribalAffiliations[]     | tribalAffiliationDescriptor    | Descriptor                  | Optional |     |         |  |                                                                                    |

|       |                                     |                    |          |     |     |  |                                                                                    |
|-------|-------------------------------------|--------------------|----------|-----|-----|--|------------------------------------------------------------------------------------|
| \     | visas                               | List(Of StaffVisa) | Optional |     |     |  | Not Collected in Aeries                                                            |
| visas | visaDescriptor                      | Descriptor         | Optional |     |     |  |                                                                                    |
| \     | yearsOfPriorProfessional Experience | Double             | Optional | STF | TYS |  | This might be able to be extracted in a future release if requested by a customer. |
| \     | yearsOfPriorTeaching Experience     | Double             | Optional |     |     |  |                                                                                    |

## Ed-Fi 3.x Staff School Association Entity Mapping

### Overview

This document defines the mapping of Aeries data to the Ed-Fi data standard.



**Document Version 1.0**

**Last Updated 07 Nov 2021**

### Status

Ready for v3 certification.

### Description

This association indicates the School(s) to which a staff member provides instructional services.

### Staff School Association Links

#### Mapping v3.2.0-c

<https://mappingedu.ed-fi.org/#!/entity/95046848-e7ba-ea11-80df-005056b36109/info?dataStandardId=7ec6133d-e7ba-ea11-80df-005056b36109>

#### Schema v3.2.0-c

<https://schema.ed-fi.org/datahandbook-v320c/#!/StaffSchoolAssociation603>

#### API v3.4.0

<https://api.ed-fi.org/v3.4.0/docs/index.html#/staffSchoolAssociations>

#### Scenarios v3

<https://techdocs.ed-fi.org/display/EDFICERT/v3+StaffAssociation+%3E+StaffSchoolAssociation+Scenarios>

### Natural Key

- ProgramAssignmentDescriptor
- SchoolId
- StaffUniqueld

### Used By

- None

### Mapping

| Parent              | Property                   | Type                                            | Required | Table | Field | Other | Code / Notes         |
|---------------------|----------------------------|-------------------------------------------------|----------|-------|-------|-------|----------------------|
| \                   | academicSubjects           | List(Of StaffSchoolAssociation AcademicSubject) | Optional |       |       |       |                      |
| academicSubjects[n] | academicSubjects[n]        | StaffSchoolAssociation AcademicSubject          | Optional |       |       |       |                      |
| academicSubjects[n] | academicSubject Descriptor | Descriptor                                      | Optional |       |       |       | Not stored in Aeries |
| \                   | gradeLevels                | List(Of StaffSchool AssociationGradeLevel)      | Optional |       |       |       |                      |

|                             |                                 |                                      |                 |     |         |                                        |                                                                                                                                                                                  |
|-----------------------------|---------------------------------|--------------------------------------|-----------------|-----|---------|----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| gradeLevels                 | gradeLevels[n]                  | StaffSchoolAssociation<br>GradeLevel | Optional        |     |         |                                        |                                                                                                                                                                                  |
| gradeLevels[n]              | gradeLevelDescriptor            | Descriptor                           | Optional        | TCH | LO & HI |                                        | Loop between lowGrade<br>and highGrade<br><br>GetEdFiCodeValue(<br>EdFiResourceDescriptors.<br>GradeLevelDescriptor, "STU",<br>"GR", grade.ToString())<br><br>see function below |
| \                           | programAssignment<br>Descriptor | Descriptor                           | <b>Identity</b> |     |         | hard code<br>to 'Regular<br>Education' | GetV3Descriptor<br>("ProgramAssignment<br>Descriptor", "Regular<br>Education")                                                                                                   |
| \                           | schoolReference                 | SchoolReference                      | Required        |     |         |                                        |                                                                                                                                                                                  |
| schoolReference             | schoolId                        | Integer                              | <b>Identity</b> | TCH | SC      |                                        | GetNullableInteger(s("SC"))                                                                                                                                                      |
| \                           | schoolYearType<br>Reference     | SchoolYearType<br>Reference          | Optional        |     |         |                                        |                                                                                                                                                                                  |
| schoolYearType<br>Reference | schoolYear                      | Integer                              | Optional        |     |         |                                        |                                                                                                                                                                                  |
| \                           | staffReference                  | StaffReference                       | Identity        |     |         |                                        |                                                                                                                                                                                  |
| staffReference              | staffUniqueId                   | String                               | <b>Identity</b> | TCH | ID      |                                        | GetString(s("ID"))                                                                                                                                                               |
| \                           | calendarReference               | Reference                            | Optional        |     |         |                                        |                                                                                                                                                                                  |
| calendarReference           | calendarCode                    | String                               | Optional        |     |         |                                        |                                                                                                                                                                                  |
| calendarReference           | schoolId                        | Integer                              | Optional        |     |         |                                        |                                                                                                                                                                                  |
| calendarReference           | schoolYear                      | Integer                              | Optional        |     |         |                                        |                                                                                                                                                                                  |

## Code

```

Public Function GetStaffGradeLevels(ByVal rowTCH As DataRow) As List(Of
StaffSchoolAssociationGradeLevel)

    Dim gradeLevels As List(Of StaffSchoolAssociationGradeLevel) =
New List(Of StaffSchoolAssociationGradeLevel)

    Try
        Dim lowGrade As Integer = rowTCH!LO
        Dim highGrade As Integer = rowTCH!HI
        Dim gradelevel As String = String.Empty

        For grade As Integer = lowGrade To highGrade
            AddGradeLevel(gradeLevels, grade)
        Next

    Catch ex As Exception
        ' TODO log exception then keep mapping
    End Try

    Return gradeLevels

End Function

Private Sub AddGradeLevel(ByRef gradeLevels As List(Of
StaffSchoolAssociationGradeLevel), ByVal grade As Integer)

    Dim gradelevelDescriptor As String = EdFiDescriptors.
GetEdFiCodeValue(EdFiResourceDescriptors.GradeLevelDescriptor, "STU",
"GR", grade.ToString(), OdsConfiguration.ConfigId, DbConnectionString)

    If Not String.IsNullOrEmpty(gradelevelDescriptor) Then

        Dim gradeLevel As StaffSchoolAssociationGradeLevel =
New StaffSchoolAssociationGradeLevel With {
            .gradeLevelDescriptor = gradelevelDescriptor
        }

        If Not gradeLevels.Any(Function(g) g.
gradeLevelDescriptor = gradeLevel.gradeLevelDescriptor) Then
            gradeLevels.Add(gradeLevel)
        End If
    End If

End Sub

```

## Ed-Fi 3.x Staff Section Association Entity Mapping

## Overview

This document defines the mapping of Aeries data to the Ed-Fi data standard.



**Document Version** 1.0

**Last Updated** 07 Nov 2021

## Status

Ready for v3 certification.

## Description

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

## Staff Section Association Links

### Mapping v3.2.0-c

<https://mappingedu.ed-fi.org/#!/entity/a4046848-e7ba-ea11-80df-005056b36109/info?dataStandardId=7ec6133d-e7ba-ea11-80df-005056b36109>

### Schema v3.2.0-c

<https://schema.ed-fi.org/datahandbook-v320c/#!/StaffSectionAssociation604>

### API v3.4.0

<https://api.ed-fi.org/v3.4.0/docs/index.html#/staffSectionAssociations>

### Scenarios v3

<https://techdocs.ed-fi.org/display/EDFICERT/v3+StaffAssociation+%3E+StaffSectionAssociation+Scenarios>

## Natural Key

- LocalCourseCode
- SchoolId
- SchoolYear
- SectionIdentifier
- SessionName
- StaffUniqueid

## Used By

None

## Mapping

| Parent           | Property                        | Type             | Required | Table | Field   | Other  | Code / Notes                                                                                                                             |
|------------------|---------------------------------|------------------|----------|-------|---------|--------|------------------------------------------------------------------------------------------------------------------------------------------|
| \                | beginDate                       | Date             | Required | TRM   | D1      |        | GetNullableDate(s("BeginDate"))                                                                                                          |
|                  | classroomPosition<br>Descriptor | Descriptor       | Required | MST   | SR{1-3} | mapped | EdFiDescriptors.GetEdFiCodeValue(<br>EdFiResourceDescriptors.<br>ClassroomPositionDescriptor, "MST",<br>"SR1", rowTCH!ClassroomPosition) |
| \                | endDate                         | Date             | Optional | TRM   | D2      |        | GetNullableDate(s("EndDate"))                                                                                                            |
| \                | highlyQualifiedTeacher          | Boolean          | Optional |       |         |        | No longer collected in California.                                                                                                       |
| \                | percentageContribution          | Double           | Optional |       |         |        | Not collected in Aeries                                                                                                                  |
| \                | sectionReference                | SectionReference | Identity |       |         |        |                                                                                                                                          |
| sectionReference | localCourseCode                 | String           | Identity | MST   | CN      |        | GetString(s("CN"))                                                                                                                       |
| sectionReference | schoolId                        | Integer          | Identity | MST   | SC      |        | GetNullableInteger(s("SC"))                                                                                                              |
| sectionReference | schoolYear                      | Integer          | Identity | TRM   | D1      |        | GetNullableInteger(s("SchoolYear"))                                                                                                      |
| sectionReference | sessionName                     | String           | Identity |       |         |        | termName = GetTermName(rowTCH!<br>SC, rowTCH!SM)<br>GetSessionName(rowTCH!<br>SchoolYear, termName)                                      |

|                  |                                     |                |                 |     |    |  |                                        |
|------------------|-------------------------------------|----------------|-----------------|-----|----|--|----------------------------------------|
| sectionReference | sectionIdentifier                   | String         | <b>Identity</b> |     |    |  | GetUniqueSectionCode(s("SC"), s("SE")) |
| \                | staffReference                      | StaffReference | Required        |     |    |  |                                        |
| staffReference   | staffUniqueld                       | String         | <b>Identity</b> | TCH | ID |  | GetString(s("ID"))                     |
| \                | teacherStudentData<br>LinkExclusion | Boolean        | Optional        |     |    |  |                                        |

## Code

```

Public Shared Function GetSessionName(ByVal schoolYear As Integer,
ByVal term As String) As String

    Return schoolYear.ToString() & " " & term

End Function

Public Shared Function GetTermName(ByVal schoolcode As Integer, ByVal
termCode As String, ByVal ConnectionString As String) As String

    'Ref: https://mappedu.ed-fi.org/#/element/e778beed-1c80-ea11-
80df-005056b36109/details?dataStandardId=e8efbbaa-1b80-ea11-80df-
005056b36109

    Select Case termCode
        Case "Y"
            Return "Year Round"
        Case "S"
            Return "Spring Semester"
        Case "F"
            Return "Fall Semester"
    End Select

    If Trimester(schoolcode, ConnectionString) Then
        Select Case termCode
            Case "1"
                Return "First Trimester"
            Case "2"
                Return "Second Trimester"
            Case "3"
                Return "Third Trimester"
        End Select
    Else
        Select Case termCode
            Case "1"
                Return "First Quarter"
            Case "2"
                Return "Second Quarter"
            Case "3"

```

```

                                Return "Third Quarter"
                        Case "4"
                                Return "Fourth Quarter"
                    End Select
            End If

            Return termCode

        End Function

        Public Shared Function GetUniqueSectionCode(ByVal school As String,
        ByVal section As String) As String

                Return school & "-" & section

        End Function

```

## Ed-Fi 3.x Student Academic Record Entity Mapping

### Overview

This document defines the mapping of Aeries data to the Ed-Fi data standard.



### Status

Ready for v3 certification

**Document Version** 1.0

**Last Updated** 06 Nov 2021

### Description

This educational entity represents the cumulative record of academic achievement for a student.

### Student Academic Record Links

#### Mapping v3.2.0-c

<https://mappingedu.ed-fi.org/#!/entity/0d056848-e7ba-ea11-80df-005056b36109/info?dataStandardId=7ec6133d-e7ba-ea11-80df-005056b36109>

#### Schema v3.2.0-c

<https://schema.ed-fi.org/datahandbook-v320c/#!/StudentAcademicRecord586>

#### API v3.4.0

<https://api.ed-fi.org/v3.4.0/docs/index.html#/studentAcademicRecords>

#### Scenarios v3

<https://techdocs.ed-fi.org/display/EDFICERT/v3+Student+Transcript+%3E+StudentAcademicRecord+Scenarios>

### Natural Key

- EducationOrganizationId
- SchoolYear
- StudentUniqueld
- TermDescriptor

### Used By

- CourseTranscript.StudentAcademicRecord (as required)

## Mapping

| Parent                              | Properties                              | Type                                        | Required | Table | Field | Other                        | Code / Notes                                        |
|-------------------------------------|-----------------------------------------|---------------------------------------------|----------|-------|-------|------------------------------|-----------------------------------------------------|
| \                                   | academicHonors                          | List(Of StudentAcademicRecordAcademicHonor) | Optional |       |       |                              |                                                     |
| studentAcademicRecordAcademicHonors | academicHonorCategoryDescriptor         | Descriptor                                  | Optional |       |       |                              |                                                     |
| studentAcademicRecordAcademicHonors | achievementCategoryDescriptor           | Descriptor                                  | Optional |       |       |                              |                                                     |
| studentAcademicRecordAcademicHonors | achievementCategorySystem               | Descriptor                                  | Optional |       |       |                              |                                                     |
| studentAcademicRecordAcademicHonors | achievementTitle                        | Descriptor                                  | Optional |       |       |                              |                                                     |
| studentAcademicRecordAcademicHonors | criteria                                | Descriptor                                  | Optional |       |       |                              |                                                     |
| studentAcademicRecordAcademicHonors | criteriaURL                             | Descriptor                                  | Optional |       |       |                              |                                                     |
| studentAcademicRecordAcademicHonors | evidenceStatement                       | Descriptor                                  | Optional |       |       |                              |                                                     |
| studentAcademicRecordAcademicHonors | honorAwardDate                          | Date                                        | Optional |       |       |                              |                                                     |
| studentAcademicRecordAcademicHonors | honorAwardExpiresDate                   | Date                                        | Optional |       |       |                              |                                                     |
| studentAcademicRecordAcademicHonors | honorDescription                        | Descriptor                                  | Optional |       |       |                              |                                                     |
| studentAcademicRecordAcademicHonors | imageURL                                | Descriptor                                  | Optional |       |       |                              |                                                     |
| studentAcademicRecordAcademicHonors | issuerName                              | Descriptor                                  | Optional |       |       |                              |                                                     |
| studentAcademicRecordAcademicHonors | issuerOriginURL                         | Descriptor                                  | Optional |       |       |                              |                                                     |
| \                                   | classRanking                            | StudentAcademicRecordClassRanking           | Optional |       |       |                              |                                                     |
| classRanking                        | classRank                               | String                                      | Optional |       |       |                              |                                                     |
| classRanking                        | classRankingDate                        | Date                                        | Optional |       |       |                              |                                                     |
| classRanking                        | percentageRanking                       | Integer                                     | Optional |       |       |                              |                                                     |
| classRanking                        | totalNumberInClass                      | Integer                                     | Optional |       |       |                              |                                                     |
| \                                   | cumulativeAttemptedCreditConversion     | Double                                      | Optional |       |       |                              |                                                     |
| \                                   | cumulativeAttemptedCredits              | Double                                      | Required | STU   | CA    | Cumulative Attempted Credits | GetNullableDouble(s ("CumulativeAttemptedCredits")) |
| \                                   | cumulativeAttemptedCreditTypeDescriptor | Descriptor                                  | Optional |       |       |                              |                                                     |
| \                                   | cumulativeEarnedCreditConversion        | Double                                      | Optional |       |       |                              |                                                     |
| \                                   | cumulativeEarnedCredits                 | Double                                      | Required | STU   | CC    | Cumulative Earned Credits    | GetNullableDouble(s ("CumulativeEarnedCredits"))    |
| \                                   | cumulativeEarnedCreditTypeDescriptor    | Descriptor                                  | Optional |       |       |                              |                                                     |

| \                                 | cumulativeGradePointAverage    | Double                                    | Required | STU | TP  | CummulativeGradePointAverage | GetNullableDouble(s("CummulativeGradePointAverage")) |
|-----------------------------------|--------------------------------|-------------------------------------------|----------|-----|-----|------------------------------|------------------------------------------------------|
| \                                 | cumulativeGradePointsEarned    | Double                                    | Optional |     |     |                              |                                                      |
| \                                 | diplomas                       | List(Of StudentAcademicRecordDiploma)     | Optional |     |     |                              |                                                      |
| studentAcademicRecordDiplomas     | achievementCategoryDescriptor  | Descriptor                                | Optional |     |     |                              |                                                      |
| studentAcademicRecordDiplomas     | diplomaAwardDate               | Date                                      | Optional |     |     |                              |                                                      |
| studentAcademicRecordDiplomas     | diplomaTypeDescriptor          | Descriptor                                | Optional |     |     |                              |                                                      |
| studentAcademicRecordDiplomas     | achievementCategorySystem      | String                                    | Optional |     |     |                              |                                                      |
| studentAcademicRecordDiplomas     | achievementTitle               | String                                    | Optional |     |     |                              |                                                      |
| studentAcademicRecordDiplomas     | criteria                       | String                                    | Optional |     |     |                              |                                                      |
| studentAcademicRecordDiplomas     | criteriaURL                    | String                                    | Optional |     |     |                              |                                                      |
| studentAcademicRecordDiplomas     | cteCompleter                   | Boolean                                   | Optional |     |     |                              |                                                      |
| studentAcademicRecordDiplomas     | diplomaAwardExpiresDate        | Date                                      | Optional |     |     |                              |                                                      |
| studentAcademicRecordDiplomas     | diplomaDescription             | String                                    | Optional |     |     |                              |                                                      |
| studentAcademicRecordDiplomas     | diplomaLevelDescriptor         | Descriptor                                | Optional |     |     |                              |                                                      |
| studentAcademicRecordDiplomas     | evidenceStatement              | String                                    | Optional |     |     |                              |                                                      |
| studentAcademicRecordDiplomas     | imageUrl                       | String                                    | Optional |     |     |                              |                                                      |
| studentAcademicRecordDiplomas     | issuerName                     | String                                    | Optional |     |     |                              |                                                      |
| studentAcademicRecordDiplomas     | issuerOriginURL                | String                                    | Optional |     |     |                              |                                                      |
| \                                 | educationOrganizationReference | EducationOrganizationReference            | Identity |     |     |                              |                                                      |
| educationOrganizationReference    | educationOrganizationId        | Integer                                   | Identity |     | STU | SC                           | GetNullableInteger(rowHIS!SC)                        |
| \                                 | gradeValueQualifier            | String                                    | Optional |     |     |                              |                                                      |
| \                                 | projectedGraduationDate        | Date                                      | Optional |     |     |                              |                                                      |
| \                                 | recognitions                   | List(Of StudentAcademicRecordRecognition) | Optional |     |     |                              |                                                      |
| studentAcademicRecordRecognitions | achievementCategoryDescriptor  | Descriptor                                | Optional |     |     |                              |                                                      |
| studentAcademicRecordRecognitions | recognitionTypeDescriptor      | Descriptor                                | Optional |     |     |                              |                                                      |
| studentAcademicRecordRecognitions | achievementCategorySystem      | String                                    | Optional |     |     |                              |                                                      |

|                                   |                                      |                                          |          |     |             |                           |                                                                      |
|-----------------------------------|--------------------------------------|------------------------------------------|----------|-----|-------------|---------------------------|----------------------------------------------------------------------|
| studentAcademicRecordRecognitions | achievementTitle                     | String                                   | Optional |     |             |                           |                                                                      |
| studentAcademicRecordRecognitions | criteria                             | String                                   | Optional |     |             |                           |                                                                      |
| studentAcademicRecordRecognitions | criteriaURL                          | String                                   | Optional |     |             |                           |                                                                      |
| studentAcademicRecordRecognitions | evidenceStatement                    | String                                   | Optional |     |             |                           |                                                                      |
| studentAcademicRecordRecognitions | imageURL                             | String                                   | Optional |     |             |                           |                                                                      |
| studentAcademicRecordRecognitions | issuerName                           | String                                   | Optional |     |             |                           |                                                                      |
| studentAcademicRecordRecognitions | issuerOriginURL                      | String                                   | Optional |     |             |                           |                                                                      |
| studentAcademicRecordRecognitions | recognitionAwardDate                 | Date                                     | Optional |     |             |                           |                                                                      |
| studentAcademicRecordRecognitions | recognitionAwardExpiresDate          | Date                                     | Optional |     |             |                           |                                                                      |
| studentAcademicRecordRecognitions | recognitionDescription               | String                                   | Optional |     |             |                           |                                                                      |
| \                                 | reportCards                          | List(Of StudentAcademicRecordReportCard) | Optional |     |             |                           |                                                                      |
| reportCardReference               | gradingPeriodSchoolId                | integer                                  | Optional |     |             |                           |                                                                      |
| reportCardReference               | gradingPeriodSchoolYear              | integer                                  | Optional |     |             |                           |                                                                      |
| reportCardReference               | gradingPeriodSequence                | integer                                  | Optional |     |             |                           |                                                                      |
| reportCardReference               | studentUniqueIId                     | String                                   | Optional |     |             |                           |                                                                      |
| reportCardReference               | gradingPeriodDescriptor              | String                                   | Optional |     |             |                           |                                                                      |
| reportCardReference               | educationOrganizationId              | integer                                  | Optional |     |             |                           |                                                                      |
| \                                 | schoolYearTypeReference              | SchoolYearTypeReference                  | Identity |     |             |                           |                                                                      |
| schoolYearTypeReference           | schoolYear                           | Integer                                  | Identity | HIS | YR          |                           | GetSchoolYearFromInt(s("YR"))                                        |
| \                                 | sessionAttemptedCreditConversion     | Double                                   | Optional |     |             |                           |                                                                      |
| \                                 | sessionAttemptedCredits              | Double                                   | Required | HIS | Sum(HIS.CR) | Session Attempted Credits | GetNullableDouble(s("SessionAttemptedCredits"))                      |
| \                                 | sessionAttemptedCreditTypeDescriptor | Descriptor                               | Optional |     |             |                           |                                                                      |
| \                                 | sessionEarnedCreditConversion        | Double                                   | Optional |     |             |                           |                                                                      |
| \                                 | sessionEarnedCredits                 | Double                                   | Required | HIS | Sum(HIS.CC) | Session Earned Credits    | GetNullableDouble(s("SessionEarnedCredits"))                         |
| \                                 | sessionEarnedCreditTypeDescriptor    | Descriptor                               | Optional |     |             |                           |                                                                      |
| \                                 | sessionGradePointAverage             | Double                                   | Optional |     |             |                           |                                                                      |
| \                                 | sessionGradePointsEarned             | Double                                   | Optional |     |             |                           |                                                                      |
| \                                 | studentReference                     | StudentReference                         | Identity |     |             |                           |                                                                      |
| studentReference                  | studentUniqueIId                     |                                          | Identity | HIS | PID         |                           | GetString(s("PID"))                                                  |
| \                                 | termDescriptor                       | String                                   | Identity | TDF | ST0         | TermStateCode             | GetEdFiCodeValue(TermDescriptor, "TDF", "ST0", rowHIS!TermStateCode) |
| \                                 | gradePointAverages                   | List(Of gradePointAverages)              | Optional |     |             |                           |                                                                      |
| gradePointAverages                | gradePointAverageTypeDescriptor      | Descriptor                               | Optional |     |             |                           |                                                                      |

|                    |                           |         |          |  |  |  |  |
|--------------------|---------------------------|---------|----------|--|--|--|--|
| gradePointAverages | gradePointAverageValue    | Decimal | Optional |  |  |  |  |
| gradePointAverages | isCumulative              | Boolean | Optional |  |  |  |  |
| gradePointAverages | maxGradePointAverageValue | Decimal | Optional |  |  |  |  |

## Code

```
Public Shared Function GetSchoolYearFromInt(ByVal obj As Object) As Integer?

    Dim schoolYear As Integer? = Nothing
    Dim year As Integer = 0

    If obj IsNot Nothing AndAlso Integer.TryParse(obj, year) Then
        If year < 1000 Then
            ' 2 or 3 digit year i.e. 18 will return 2018 or
            118 will return 2118
            schoolYear = 2000 + year
        ElseIf year < 9999 Then
            ' 4 digit year i.e. 2018 so return 2018 (or
            maybe 2118)
            schoolYear = year
        Else
            ' the data is corrupt so just return Nothing.
        End If
    End If

    Return schoolYear

End Function
```

## Ed-Fi 3.x Student Cohort Association Entity Mapping

### Overview

This document defines the mapping of Aeries data to the Ed-Fi data standard.



### Status

Ready for v3.x Certification.

**Document Version 1.1**

**Last Updated 24 Oct 2021**

### Description

This association represents the Cohort(s) for which a student is designated.

### Student Cohort Association Links

#### Mapping v3.2.0-c

<https://mappingedu.ed-fi.org/#!/entity/91056848-e7ba-ea11-80df-005056b36109/info?dataStandardId=7ec6133d-e7ba-ea11-80df-005056b36109>

### Schema v3.2.0-c

<https://schema.ed-fi.org/datahandbook-v320c/##StudentCohortAssociation605>

### API v3.4.0

<https://api.ed-fi.org/v3.4.0/docs/index.html#studentCohortAssociations>

### Scenarios v3

<https://techdocs.ed-fi.org/display/EDFICERT/v3+StudentCohort+%3E+StudentCohortAssociation+Scenarios>

## Natural Key

- BeginDate
- CohortIdentifier
- EducationOrganizationId
- StudentUniqueId

## Used By

- None

## Entity Mapping

| Parent                           | Property                | DataType                                  | Cardinality | Table | Field     | Other                     | Code / Notes                       |
|----------------------------------|-------------------------|-------------------------------------------|-------------|-------|-----------|---------------------------|------------------------------------|
| \                                | beginDate               | Date                                      | Identity    |       | StartDate | "7/1" + Current Year      | GetNullableDate(s("StartDate"))    |
| \                                | cohortReference         | CohortReference                           | Identity    |       |           |                           |                                    |
| cohortReference                  | educationOrganizationId | Integer                                   | Identity    | SGD   | SCL       |                           | If(scl > 0, scl.Value, DistrictId) |
| cohortReference                  | cohortIdentifier        | String                                    | Identity    | SGM   | GI        |                           | GetString(s("GI"))                 |
| \                                | endDate                 | Date                                      | Required    |       | EndDate   | "6/30" + Current Year + 1 | GetNullableDate(s("EndDate"))      |
| \                                | sections                | List(Of StudentCohort AssociationSection) | Optional    |       |           |                           |                                    |
| sections[n]                      | sectionReference        | SectionReference                          | Optional    |       |           |                           |                                    |
| sections[n]<br>\sectionReference | localCourseCode         | String                                    | Optional    |       |           |                           |                                    |
| sections[n]<br>\sectionReference | schoolId                | Integer                                   | Optional    |       |           |                           |                                    |
| sections[n]<br>\sectionReference | schoolYear              | Integer                                   | Optional    |       |           |                           |                                    |
| sections[n]<br>\sectionReference | sectionIdentifier       | String                                    | Optional    |       |           |                           |                                    |
| sections[n]<br>\sectionReference | sessionName             | String                                    | Optional    |       |           |                           |                                    |
| \                                | studentReference        | StudentReference                          | Identity    |       |           |                           |                                    |
| studentReference                 | studentUniqueId         | String                                    | Identity    | SGM   | ID        |                           | GetString(s("ID"))                 |

## Ed-Fi 3.x Student CTE Program Association Entity Mapping

### Overview

This document defines the mapping of Aeries data to the Ed-Fi data standard.



### Status

Ready for v3.x Certification.

**Document Version** 1.1

**Last Updated** 24 Oct 2021

## Description

This association represents the career and technical education (CTE) program that a student participates in. The association is an extension of the StudentProgramAssociation particular for CTE programs.

## Student CTE Program Association Links

### Mapping v3.2.0-c

<https://mappingedu.ed-fi.org/#!/entity/e4056848-e7ba-ea11-80df-005056b36109/info?dataStandardId=7ec6133d-e7ba-ea11-80df-005056b36109>

### Schema v3.2.0-c

<https://schema.ed-fi.org/datahandbook-v320c/#!/StudentCTEProgramAssociation606>

<https://schema.ed-fi.org/datahandbook-v320c/#!/GeneralStudentProgramAssociation3051>

### API v3.4.0

<https://api.ed-fi.org/v3.4.0/docs/index.html#/studentCTEProgramAssociations>

### Scenarios v3

<https://techdocs.ed-fi.org/display/EDFICERT/v3+Student+Program+%3E+StudentCTEProgramAssociation+Scenarios>

## Natural Key

- BeginDate
- EducationOrganizationId
- ProgramEducationOrganizationId
- ProgramName
- ProgramTypeDescriptor
- StudentUniqueId

## Used By

- StudentCompetencyObjectiveSectionOrProgramChoice.GeneralStudentProgramAssociation (as optional collection)
- StudentLearningObjectiveSectionOrProgramChoice.GeneralStudentProgramAssociation (as optional collection)

## Mappings

| Parent                         | Properties                     | Type       | Required        | Table | Field | Other                            | Code / Notes                                   |
|--------------------------------|--------------------------------|------------|-----------------|-------|-------|----------------------------------|------------------------------------------------|
| \                              | beginDate                      | Date       | <b>Identity</b> | CPH   | AY    | BEGINFISCALYR                    | GetNullableDate(s("BEGINFISCALYR"))            |
| \                              | educationOrganizationReference | Object     | Required        |       |       |                                  |                                                |
| educationOrganizationReference | educationOrganizationId        | Integer    | <b>Identity</b> | CPH   | SCL   | CPH_SCL                          | If(scl > 0, scl, OdsConfiguration.DistrictId)  |
| \                              | programReference               | Object     | Required        |       |       |                                  |                                                |
| programReference               | educationOrganizationId        | Integer    | <b>Identity</b> |       |       |                                  | OdsConfiguration.DistrictId                    |
| programReference               | programName                    | String     | <b>Identity</b> |       |       | "Career and Technical Education" | Hard coded to "Career and Technical Education" |
| programReference               | programTypeDescriptor          | Descriptor | <b>Identity</b> |       |       | "Career and Technical Education" | Hard coded to "Career and Technical Education" |
| \                              | studentReference               | Object     | Required        |       |       |                                  |                                                |
| studentReference               | studentUniqueId                | String     | <b>Identity</b> | STU   | ID    | STU_ID                           | GetString(s("STU_ID"))                         |
| \                              | endDate                        | Date       | Optional        | CPH   | AY    | ENDFISCALYR                      | GetNullableDate(s("ENDFISCALYR"))              |
| \                              | ctePrograms                    | Object     | Optional        |       |       |                                  |                                                |
| ctePrograms                    | careerPathwayDescriptor        | Descriptor | Optional        |       |       |                                  |                                                |
| ctePrograms                    | cipCode                        | String     | Optional        |       |       |                                  |                                                |
| ctePrograms                    | primaryCTEProgramIndicator     | Boolean    | Optional        |       |       |                                  |                                                |
| ctePrograms                    | cteProgramCompletionIndicator  | Boolean    | Optional        |       |       |                                  |                                                |
| \                              | participationStatus            | Object     | Optional        |       |       |                                  |                                                |

|                     |                                         |            |          |     |    |                                |                                                                                  |
|---------------------|-----------------------------------------|------------|----------|-----|----|--------------------------------|----------------------------------------------------------------------------------|
| participationStatus | participationStatus<br>Descriptor       | Descriptor | Optional |     |    |                                |                                                                                  |
| participationStatus | designatedBy                            | String     | Optional |     |    |                                |                                                                                  |
| participationStatus | statusBeginDate                         | Date       | Optional |     |    |                                |                                                                                  |
| participationStatus | statusEndDate                           | Date       | Optional |     |    |                                |                                                                                  |
| \                   | reasonExitedDescriptor                  | Descriptor | Optional |     |    |                                |                                                                                  |
| \                   | servedOutsideOf<br>RegularSession       | Boolean    | Optional |     |    |                                |                                                                                  |
| \                   | nonTraditionalGenderStatus              | Boolean    | Required | STU | GN | NONTRADITIONALGEN<br>DERSTATUS | If 'M' or 'F' False Else True                                                    |
| \                   | privateCTEProgram                       | Boolean    | Required |     |    | Hard code to 'False'           | We do not track this in Aeries                                                   |
| \                   | technicalSkillsAssessment<br>Descriptor | Descriptor | Required |     |    | Hard code to 'Did Not<br>Take' | We do not track this in Aeries                                                   |
| \                   | cteProgramServices                      | Object     | Required |     |    |                                |                                                                                  |
| cteProgramServices  | cteProgramServiceDescriptor             | Descriptor | Required | CPW | CD | CPW_CD                         | GetEdFiCodeValue(<br>CteProgramServiceDescriptor,<br>"CTE", "CD", rowCPW!CPW_CD) |
| cteProgramServices  | cipCode                                 | String     | Required | CPW | CD | CPW_CD                         | GetString(rowCPW!CPW_CD)                                                         |
| cteProgramServices  | serviceBeginDate                        | Date       | Optional |     |    |                                |                                                                                  |
| cteProgramServices  | serviceEndDate                          | Date       | Optional |     |    |                                |                                                                                  |
| cteProgramServices  | primaryIndicator                        | Boolean    | Required |     |    | Hard code to 'True'            | We do not track this in Aeries                                                   |

## Ed-Fi 3.x Student Discipline Incident Association Entity Mapping

### Overview

This document defines the mapping of Aeries data to the Ed-Fi data standard.



### Status

Ready for v3 certification.

**Document Version 1.0**

**Last Updated 07 Nov 2021**

### Description

This association indicates those students who were victims, perpetrators, witnesses, and reporters for a discipline incident.

### Student Discipline Incident Association Links

#### Mapping v3.2.0-c

<https://mappingedu.ed-fi.org/#!/entity/07066848-e7ba-ea11-80df-005056b36109/info?dataStandardId=7ec6133d-e7ba-ea11-80df-005056b36109>

#### Schema v3.2.0-c

<https://schema.ed-fi.org/datahandbook-v320c/#!/StudentDisciplineIncidentAssociation607>

#### API v3.4.0

<https://api.ed-fi.org/v3.4.0/docs/index.html#/studentDisciplineIncidentAssociations>

#### Scenarios v3

<https://techdocs.ed-fi.org/display/EDFICERT/v3+Student+Discipline+%3E+StudentDisciplineIncidentAssociation+Scenarios>

### Natural Key

- IncidentIdentifier
- SchoolId
- StudentUniquelId

### Used By

- DisciplineAction.StudentDisciplineIncidentAssociation (as required collection)

## Mapping

| Parent                      | Property                           | Type                                                   | Required | Table | Field                   | Other         | Code / Notes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|-----------------------------|------------------------------------|--------------------------------------------------------|----------|-------|-------------------------|---------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| \                           | behaviors                          | List(Of StudentDisciplineIncidentAssociation Behavior) | Required |       |                         |               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| behaviors[n]                | behaviorDescriptor                 | BehaviorMapType                                        | Required | ADS   | CD (CD2, CD3, CD4, CD5) |               | GetEdFiCodeValue(BehaviorDescriptor, "ADS", "CD", rowADS!CD)<br><br>GetEdFiCodeValue(BehaviorDescriptor, "ADS", "CD", rowADS!CD2)<br><br>GetEdFiCodeValue(BehaviorDescriptor, "ADS", "CD", rowADS!CD3)<br><br>GetEdFiCodeValue(BehaviorDescriptor, "ADS", "CD", rowADS!CD4)<br><br>GetEdFiCodeValue(BehaviorDescriptor, "ADS", "CD", rowADS!CD5)<br><br>if the above values are not empty add each one if none exists then add "Other"<br><br>This is actually what we would send to EdFi because we store "Behaviors" on a per-student basis, not at the incident level. |
| behaviors[n]                | behaviorDetailedDescription        | String                                                 | Optional |       |                         |               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| \                           | disciplineIncidentReference        | DisciplineIncidentReference                            | Identity |       |                         |               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| disciplineIncidentReference | incidentIdentifier                 | String                                                 | Identity | ADS   | IID                     |               | GetString(rowADS!IID)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| disciplineIncidentReference | schoolId                           | Integer                                                | Identity | ADS   | SCL                     |               | GetNullableInteger(rowADS!SCL)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| \                           | studentParticipationCodeDescriptor | Descriptor                                             | Required |       |                         | 'Perpetrator' | GetV3Descriptor("StudentParticipationCodeDescriptor", "Perpetrator")                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| \                           | studentReference                   | StudentReference                                       | Identity |       |                         |               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| studentReference            | studentUniqueId                    | String                                                 | Identity | ADS   | PID                     |               | GetString(s("PID"))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

## Ed-Fi 3.x Student Education Organization Association Entity Mapping

### Overview

This document defines the mapping of Aeries data to the Ed-Fi data standard.



### Status

Ready for v3 certification.

**Document Version 1.0**

**Last Updated 07 Nov 2021**

### Description

This association represents student information as reported in the context of the student's relationship to the Education Organization. Enrollment relationship semantics are covered by StudentSchoolAssociation.

### Student Education Organization Association Links

### Mapping v3.2.0-c

<https://mappingedu.ed-fi.org/#!/entity/13066848-e7ba-ea11-80df-005056b36109/info?dataStandardId=7ec6133d-e7ba-ea11-80df-005056b36109>

### Schema v3.2.0-c

<https://schema.ed-fi.org/datahandbook-v320c/#!/StudentEducationOrganizationAssociation3052>

### API v3.4.0

<https://api.ed-fi.org/v3.4.0/docs/index.html#/studentEducationOrganizationAssociations>

### Scenarios v3

<https://techdocs.ed-fi.org/display/EDFICERT/v3+Student+Enrollment+%3E+StudentEdOrgAssociation+Scenarios>

## Natural Key

- EducationOrganizationId
- StudentUniquelId

## Used By

None

## Entity Mapping

| Parent                         | Property                        | Type                           | Required    | Table | Field | Other                | Code / Notes                                                               |
|--------------------------------|---------------------------------|--------------------------------|-------------|-------|-------|----------------------|----------------------------------------------------------------------------|
| \                              | educationOrganizationReference  |                                | Identity    |       |       |                      |                                                                            |
| educationOrganizationReference | educationOrganizationId         | Integer                        | Identity    |       |       | SCXT                 | OdsConfiguration.DistrictId, OutOfDistrictSchoolCode, School of Enrollment |
| \                              | studentCharacteristics          | List of StudentCharacteristics | Required    |       |       |                      |                                                                            |
| StudentCharacteristics         | studentCharacteristicDescriptor | Descriptor                     | Required    |       |       | Hard Code to 'Other' |                                                                            |
| StudentCharacteristics         | designatedBy                    | String                         | Optional    |       |       |                      |                                                                            |
| StudentCharacteristics         | periods                         | List(Of Periods)               | Optional    |       |       |                      |                                                                            |
| periods                        | beginDate                       | Date                           | Optional    |       |       |                      |                                                                            |
| periods                        | endDate                         | Date                           | Optional    |       |       |                      |                                                                            |
| \                              | studentIndicators               | StudentIndicators              | Optional    |       |       |                      |                                                                            |
| StudentIndicators              | indicatorName                   | String                         | Optional    |       |       |                      |                                                                            |
| StudentIndicators              | indicatorGroup                  | String                         | Optional    |       |       |                      |                                                                            |
| StudentIndicators              | indicator                       | String                         | Optional    |       |       |                      |                                                                            |
| StudentIndicators              | designatedBy                    | String                         | Optional    |       |       |                      |                                                                            |
| StudentIndicators              | periods                         | List(Of periods)               | Optional    |       |       |                      |                                                                            |
| periods                        | beginDate                       | String                         | Optional    |       |       |                      |                                                                            |
| periods                        | endDate                         | String                         | Optional    |       |       |                      |                                                                            |
| \                              | addresses                       | List(Of addresses)             | Required    |       |       |                      |                                                                            |
| addresses[1]                   | addressTypeDescriptor           | Descriptor                     | Conditional |       |       | Hard code to 'Home'  | EdFiAddressTypes(EdFiAddressTypeEnum.Home)                                 |
| addresses[1]                   | apartmentRoomSuiteNumber        | String                         | Optional    |       |       |                      |                                                                            |
| addresses[1]                   | buildingSiteNumber              | String                         | Optional    |       |       |                      |                                                                            |
| addresses[2]                   | congressionalDistrict           | String                         | Optional    |       |       |                      |                                                                            |
| addresses[1]                   | city                            | String                         | Required    | STU   | RCY   |                      | GetString(s("RCY"))                                                        |
| addresses[1]                   | countyFIPSCode                  | String                         | Optional    |       |       |                      |                                                                            |

|                 |                                             |                                |             |     |     |                        |                                                                         |
|-----------------|---------------------------------------------|--------------------------------|-------------|-----|-----|------------------------|-------------------------------------------------------------------------|
| addresses[1]    | latitude                                    | String                         | Optional    |     |     |                        |                                                                         |
| addresses[1]    | longitude                                   | String                         | Optional    |     |     |                        |                                                                         |
| addresses[1]    | nameOfCounty                                | String                         | Optional    |     |     |                        |                                                                         |
| addresses[1]    | postalCode                                  | String                         | Required    | STU | RZC |                        | GetString(s("RZC"))                                                     |
| addresses[1]    | stateAbbreviationDescriptor                 | Descriptor                     | Required    | STU | RST |                        | GetUpperCaseString(s("RST"))<br><br>Not mapped                          |
| addresses[1]    | streetNumberName                            | String                         | Required    | STU | RAD |                        | GetString(s("RAD"))                                                     |
| addresses[1]    | localeDescriptor                            | Descriptor                     |             |     |     |                        |                                                                         |
| addresses[1]    | doNotPublishIndicator                       | Boolean                        | Optional    |     |     |                        |                                                                         |
| addresses[1]    | periods[]                                   | List(Of periods)               | Optional    |     |     |                        |                                                                         |
| periods         | beginDate                                   | Date                           | Optional    |     |     |                        |                                                                         |
| periods         | endDate                                     | Date                           | Optional    |     |     |                        |                                                                         |
| addresses[2]    | addressTypeDescriptor                       | Descriptor                     | Conditional |     |     | Hard code to 'Mailing' | EdFiConstants.<br>EdFiAddressTypes(<br>EdFiAddressTypeEnum.<br>Mailing) |
| addresses[2]    | apartmentRoomSuiteNumber                    | String                         | Optional    |     |     |                        |                                                                         |
| addresses[2]    | buildingSiteNumber                          | String                         | Optional    |     |     |                        |                                                                         |
| addresses[2]    | congressionalDistrict                       | String                         |             |     |     |                        |                                                                         |
| addresses[2]    | city                                        | String                         | Required    | STU | CY  |                        | GetString(s("CY"))                                                      |
| addresses[2]    | countyFIPSCode                              | String                         | Optional    |     |     |                        |                                                                         |
| addresses[2]    | latitude                                    | String                         | Optional    |     |     |                        |                                                                         |
| addresses[2]    | longitude                                   | String                         | Optional    |     |     |                        |                                                                         |
| addresses[2]    | nameOfCounty                                | String                         | Optional    |     |     |                        |                                                                         |
| addresses[2]    | postalCode                                  | String                         | Required    | STU | ZC  |                        | GetString(s("ZC"))                                                      |
| addresses[2]    | stateAbbreviationDescriptor                 | Descriptor                     | Required    | STU | ST  |                        | GetUpperCaseString(s("ST"))<br><br>Not mapped                           |
| addresses[2]    | streetNumberName                            | String                         | Required    | STU | AD  |                        | GetString(s("AD"))                                                      |
| addresses[2]    | localeDescriptor                            | Descriptor                     | Optional    |     |     |                        |                                                                         |
| addresses[2]    | doNotPublishIndicator                       | Boolean                        | Optional    |     |     |                        |                                                                         |
| addresses[2]    | periods[]                                   | List(Of periods)               | Optional    |     |     |                        |                                                                         |
| periods         | beginDate                                   | Date                           | Optional    |     |     |                        |                                                                         |
| periods         | endDate                                     | Date                           | Optional    |     |     |                        |                                                                         |
| \               | cohortYears                                 | List(Of StudentCohortYear)     | Optional    |     |     |                        |                                                                         |
| cohortYears[n]  | cohortYearTypeDescriptor                    | Descriptor                     | Optional    |     |     |                        |                                                                         |
| cohortYears[n]  | schoolYearTypeReference                     | SchoolYearTypeReference        | Optional    |     |     |                        |                                                                         |
| \               | disabilities                                | List(Of disability)            | Optional    |     |     |                        |                                                                         |
| disabilities    | disabilityDescriptor                        | Descriptor                     | Optional    |     |     |                        |                                                                         |
| disabilities    | disabilityDeterminationSourceTypeDescriptor | Descriptor                     | Optional    |     |     |                        |                                                                         |
| disabilities    | disabilityDiagnosis                         | String                         | Optional    |     |     |                        |                                                                         |
| disabilities    | orderOfDisability                           | Integer                        | Optional    |     |     |                        |                                                                         |
| disabilities    | designations                                | List(Of designations)          | Optional    |     |     |                        |                                                                         |
| designations    | disabilityDesignationDescriptor             | Descriptor                     | Optional    |     |     |                        |                                                                         |
| \               | electronicMails                             | List(Of StudentElectronicMail) | Required    |     |     |                        |                                                                         |
| electronicMails | electronicMailAddress                       | String                         | Required    | STU | SEM |                        | GetString(s("SEM"))                                                     |

|                                   |                                             |                                                 |          |     |     |                               |                                                                                                    |
|-----------------------------------|---------------------------------------------|-------------------------------------------------|----------|-----|-----|-------------------------------|----------------------------------------------------------------------------------------------------|
| electronicMails                   | electronicMailTypeDescriptor                | Descriptor                                      | Required |     |     | Hard code to 'HomePersonal'   | EdFiElectronicMailTypes(<br>EdFiElectronicMailTypeEnum.<br>HomePersonal)                           |
| electronicMails                   | primaryEmailAddressIndicator                | Boolean                                         | Optional |     |     |                               |                                                                                                    |
| electronicMails                   | doNotPublishIndicator                       | Boolean                                         | Optional |     |     |                               |                                                                                                    |
| \                                 | hispanicLatinoEthnicity                     | Boolean                                         | Required | STU | ETH |                               | GetNullableBoolean(<br>GetEdFiCodeValue(<br>BooleanType, "STU",<br>"ETH", drSTU!ETH)               |
| \                                 | studentIdentificationCodes                  | List(Of<br>StudentIdentification<br>Code)       | Required |     |     |                               |                                                                                                    |
| studentIdentification<br>Codes[1] | assigningOrganization<br>IdentificationCode | String                                          | Required |     |     | Hard code to<br>'District'    | EdFiStudentIdentification<br>SystemTypes(<br>EdFiStudentIdentification<br>SystemTypeEnum.District) |
| studentIdentification<br>Codes[1] | identificationCode                          | String                                          | Required | STU | ID  |                               | GetString(drSTU!!ID)                                                                               |
| studentIdentification<br>Codes[1] | studentIdentification<br>SystemDescriptor   | Descriptor                                      | Required |     |     | Hard<br>code to<br>'District' | EdFiStudentIdentification<br>SystemTypes(<br>EdFiStudentIdentification<br>SystemTypeEnum.District) |
| studentIdentification<br>Codes[2] | assigningOrganization<br>IdentificationCode | String                                          | Required |     |     | Hard<br>code to<br>'State'    | EdFiStudentIdentification<br>SystemTypes(<br>EdFiStudentIdentification<br>SystemTypeEnum.State)    |
| studentIdentification<br>Codes[2] | identificationCode                          | String                                          | Required | STU | CID |                               | GetString(drSTU!CID)                                                                               |
| studentIdentification<br>Codes[2] | studentIdentification<br>SystemDescriptor   | Descriptor                                      | Required |     |     | Hard<br>code to<br>'State'    | EdFiStudentIdentification<br>SystemTypes(<br>EdFiStudentIdentification<br>SystemTypeEnum.State)    |
| \                                 | <a href="#">indicators</a>                  | List(Of<br>StudentIndicator)                    | Optional |     |     |                               |                                                                                                    |
| indicators[n]                     | designatedBy                                | String                                          | Optional |     |     |                               |                                                                                                    |
| indicators[n]                     | indicator                                   | String                                          | Optional |     |     |                               |                                                                                                    |
| indicators[n]                     | indicatorGroup                              | String                                          | Optional |     |     |                               |                                                                                                    |
| indicators[n]                     | indicatorName                               | String                                          | Optional |     |     |                               |                                                                                                    |
| indicators[n]                     | periods[]                                   | List(Of Periods)                                | Optional |     |     |                               |                                                                                                    |
| periods                           | beginDate                                   | Date                                            | Optional |     |     |                               |                                                                                                    |
| periods                           | endDate                                     | Date                                            | Optional |     |     |                               |                                                                                                    |
| \                                 | internationalAddresses                      | List(Of<br>StudentInternation<br>al<br>Address) | Optional |     |     |                               |                                                                                                    |
| internationalAddre<br>sses        | addressTypeDescriptor                       | Descriptor                                      | Optional |     |     |                               |                                                                                                    |
| internationalAddre<br>sses        | countryDescriptor                           | Descriptor                                      | Optional |     |     |                               |                                                                                                    |
| internationalAddre<br>sses        | addressLine1                                | String                                          | Optional |     |     |                               |                                                                                                    |
| internationalAddre<br>sses        | addressLine2                                | String                                          | Optional |     |     |                               |                                                                                                    |
| internationalAddre<br>sses        | addressLine3                                | String                                          | Optional |     |     |                               |                                                                                                    |
| internationalAddre<br>sses        | addressLine4                                | String                                          | Optional |     |     |                               |                                                                                                    |
| internationalAddre<br>sses        | beginDate                                   | Date                                            | Optional |     |     |                               |                                                                                                    |
| internationalAddre<br>sses        | endDate                                     | Date                                            | Optional |     |     |                               |                                                                                                    |
| internationalAddre<br>sses        | latitude                                    | String                                          | Optional |     |     |                               |                                                                                                    |

|                           |                                     |                                                             |                 |     |     |                                        |                                                                                      |
|---------------------------|-------------------------------------|-------------------------------------------------------------|-----------------|-----|-----|----------------------------------------|--------------------------------------------------------------------------------------|
| internationalAddresses    | longitude                           | String                                                      | Optional        |     |     |                                        |                                                                                      |
| \                         | languages                           | List(Of StudentLanguage)                                    | Required        |     |     |                                        |                                                                                      |
| languages                 | languages[1]                        | StudentLanguage                                             | Required        |     |     |                                        |                                                                                      |
| languages[1]              | languageDescriptor                  | Descriptor                                                  | <b>Required</b> | STU | HL  |                                        | GetEdFiCodeValue (LanguageDescriptor, "STU", "HL", rowSTU!HL)                        |
| languages[1]              | uses                                | List(Of StudentLanguage Use)                                | Required        |     |     |                                        |                                                                                      |
| languages[1]<br>\uses     | uses[1]                             | StudentLanguage Use                                         | Required        |     |     |                                        |                                                                                      |
| languages[1]<br>\uses[1]  | languageUseDescriptor               | Descriptor                                                  | <b>Required</b> |     |     | hard code to 'Home language'           | New StudentLanguageUse() With {<br>.languageUseType = "Home language"<br>}           |
| languages                 | languages[2]                        | StudentLanguage                                             | Required        |     |     |                                        |                                                                                      |
| languages[2]              | languageDescriptor                  | LanguageMapType                                             | <b>Required</b> | STU | CL  |                                        | GetEdFiCodeValue (LanguageDescriptor, "STU", "HL", rowSTU!CL)                        |
| languages[2]              | uses                                | List(Of StudentLanguage Use)                                | Required        |     |     |                                        |                                                                                      |
| languages[2]<br>\uses     | uses[1]                             | StudentLanguage Use                                         | Required        |     |     |                                        |                                                                                      |
| languages[2]<br>\uses[1]  | languageUseDescriptor               | Descriptor                                                  | <b>Required</b> |     |     | hard code to 'Correspondence language' | New StudentLanguageUse() With {<br>.languageUseType = "Correspondence language"<br>} |
| \                         | limitedEnglishProficiencyDescriptor | LimitedEnglishProficiencyMapType                            | <b>Required</b> | STU | LF  | Mapped                                 | GetEdFiCodeValue( LimitedEnglishProficiencyDescriptor, "STU", "LF", drSTU!LF)        |
| \                         | loginId                             | String                                                      | Optional        |     |     |                                        |                                                                                      |
| \                         | oldEthnicitydescriptor              | Descriptor                                                  | Optional        |     |     |                                        |                                                                                      |
| \                         | profileThumbnail                    | String                                                      | Optional        |     |     |                                        |                                                                                      |
| \                         | programParticipations               | List(Of StudentProgram Participation)                       | Optional        |     |     |                                        |                                                                                      |
| programParticipations[n]  | beginDate                           | Date                                                        | Optional        |     |     |                                        |                                                                                      |
| programParticipations[n]  | designatedBy                        | String                                                      | Optional        |     |     |                                        |                                                                                      |
| programParticipations[n]  | endDate                             | Date                                                        | Optional        |     |     |                                        |                                                                                      |
| programParticipations[n]  | programTypeDescriptor               | Descriptor                                                  | Optional        |     |     |                                        |                                                                                      |
| programParticipations[n]  | programCharacteristics[]            | List(Of StudentProgram Participation ProgramCharacteristic) | Optional        |     |     |                                        |                                                                                      |
| programCharacteristics[n] | programCharacteristicDescriptor     | Descriptor                                                  | Optional        |     |     |                                        |                                                                                      |
| \                         | racess                              | List(Of races)                                              | Required        |     |     |                                        |                                                                                      |
| racess[1]                 | raceDescriptor                      | Descriptor                                                  | <b>Required</b> | STU | RC1 | Mapped                                 | GetEdFiCodeValue( RaceType, "STU", "RC1", racetype)                                  |
| racess[2]                 | raceDescriptor                      | Descriptor                                                  | <b>Required</b> | STU | RC2 | Mapped                                 | GetEdFiCodeValue( RaceType, "STU", "RC2", racetype)                                  |
| racess[3]                 | raceDescriptor                      | Descriptor                                                  | <b>Required</b> | STU | RC3 | Mapped                                 | GetEdFiCodeValue( RaceType, "STU", "RC3", racetype)                                  |

|                    |                                 |                              |          |     |     |                     |                                                             |
|--------------------|---------------------------------|------------------------------|----------|-----|-----|---------------------|-------------------------------------------------------------|
| racess[4]          | raceDescriptor                  | Descriptor                   | Required | STU | RC4 | Mapped              | GetEdFiCodeValue(RaceType, "STU", "RC4", racetype)          |
| racess[5]          | raceDescriptor                  | Descriptor                   | Required | STU | RC5 | Mapped              | GetEdFiCodeValue(RaceType, "STU", "RC5", racetype)          |
| \                  | sexDescriptor                   | Descriptor                   | Required | STU | GN  | Mapped              | GetEdFiCodeValue(SexType, "STU", "GN", drSTU! GN)           |
| \                  | studentReference                | StudentReference             | Identity |     |     |                     |                                                             |
| studentReference   | studentUniqueld                 | String                       | Identity | STU | ID  |                     | GetString(s("ID"))                                          |
| \                  | telephones                      | List(Of StudentTelephone)    | Required |     |     |                     |                                                             |
| telephones[1]      | orderOfPriority                 | Integer                      | Optional |     |     |                     |                                                             |
| telephones[1]      | telephoneNumber                 | String                       | Required | STU | TL  |                     | GetString(s("TL"))                                          |
| telephones[1]      | telephoneNumber TypeDescriptor  | Descriptor                   | Required |     |     | Hard code to 'Home' | EdFiTelephoneNumberTypes(EdFiTelephoneNumberType Enum.Home) |
| telephones[1]      | textMessageCapability Indicator | Boolean                      | Optional |     |     |                     |                                                             |
| telephones         | doNotPublishIndicator           | Boolean                      | Optional |     |     |                     |                                                             |
| \                  | tribalAffiliations              | List (Of tribalAffiliations) | Optional |     |     |                     |                                                             |
| tribalAffiliations | tribalAffiliationDescriptor     | Descriptor                   | Optional |     |     |                     |                                                             |

## Ed-Fi 3.x Student Entity Mapping

### Overview

This document defines the mapping of Aeries data to the Ed-Fi data standard.



### Status

Ready for v3.x Certification.

**Document Version 1.1**

**Last Updated 24 Oct 2021**

### Description

This entity represents an individual for whom instruction, services, and/or care are provided in an early childhood, elementary, or secondary educational program under the jurisdiction of a school, education agency or other institution or program. A student is a person who has been enrolled in a school or other educational institution.

### Student Links

#### Mapping v3.2.0-c

<https://mappingu.edu.ed-fi.org/#!/entity/ea046848-e7ba-ea11-80df-005056b36109/info?dataStandardId=7ec6133d-e7ba-ea11-80df-005056b36109>

#### Schema v3.2.0-c

<https://schema.ed-fi.org/datahandbook-v320c/#!/Student585>

#### API v3.4.0

<https://api.ed-fi.org/v3.4.0/docs/index.html#/students>

#### Scenarios v3

<https://techdocs.ed-fi.org/display/EDFICERT/v3+Student+%3E+Student+Scenarios>

### Natural Key

- StudentUniqueld

## Entity Mapping

| Parent                             | V3.x | Property                                  | Type                                      | Required    | Table | Field | Other  | Code / Notes                                                                        |
|------------------------------------|------|-------------------------------------------|-------------------------------------------|-------------|-------|-------|--------|-------------------------------------------------------------------------------------|
| \                                  |      | studentUniqueid                           | String                                    | Identity    | STU   | ID    |        | GetString(s("ID"))                                                                  |
| \                                  |      | birthCity                                 | String                                    | Required    | STU   | BCY   |        | GetString(s("BCY"))                                                                 |
| \                                  |      | birthCountryDescriptor                    | String                                    | Required    | STU   | BCU   |        | GetEdFiCodeValue(CountryDescriptor, "STU", "BCU", rowSTU!BCU)                       |
| \                                  |      | birthDate                                 | Date                                      | Required    | STU   | BD    |        | GetNullableDate(s("BD"))                                                            |
| \                                  |      | birthInternationalProvince                | String                                    | Optional    | STU   | BST   |        | If(GetUpperCaseString(s("BCU")) = "US", String.Empty, GetUpperCaseString(s("BST"))  |
| \                                  |      | birthSexDescriptor                        | Descriptor                                | Optional    | STU   | GN    | Mapped | GetEdFiCodeValue(SexType, "STU", "GN", drSTU!GN)                                    |
|                                    |      | birthStateAbbreviationDescriptor          | Descriptor                                | Optional    | STU   | BST   |        | If(GetUpperCaseString(s("BCU")) = "US", GetUpperCaseString(s("BST")), String.Empty) |
| \                                  |      | citizenshipStatusDescriptor               | Descriptor                                | Optional    |       |       |        |                                                                                     |
| \                                  |      | dateEnteredUS                             | Date                                      | Optional    |       |       |        |                                                                                     |
| \                                  |      | firstName                                 | String                                    | Required    | STU   | FN    |        | GetString(s("FN"))                                                                  |
| \                                  |      | generationCodeSuffix                      | String                                    | Conditional | STU   | SF    |        | GetString(s("SF"))                                                                  |
| \                                  |      | IdentificationDocuments                   | List(Of Student Identification Document)  | Optional    |       |       |        |                                                                                     |
| IdentificationDocuments[1]         |      | documentExpirationDate                    | Date                                      | Optional    |       |       |        |                                                                                     |
| IdentificationDocuments[1]         |      | documentTitle                             | String                                    | Optional    |       |       |        |                                                                                     |
| IdentificationDocuments[1]         |      | identificationDocumentUseDescriptor       | Descriptor                                | Optional    |       |       |        |                                                                                     |
| IdentificationDocuments[1]         |      | issuerCountryDescriptor                   | String                                    | Optional    |       |       |        |                                                                                     |
| IdentificationDocuments[1]         |      | issuerDocumentIdentificationCode          | String                                    | Optional    |       |       |        |                                                                                     |
| IdentificationDocuments[1]         |      | personalInformationVerificationDescriptor | Descriptor                                | Optional    |       |       |        |                                                                                     |
| IdentificationDocuments[1]         |      | issuerName                                | String                                    | Optional    |       |       |        |                                                                                     |
| \                                  |      | studentPersonalIdentificationDocuments[n] | List(Of Personal Identification Document) | Optional    |       |       |        |                                                                                     |
| personalIdentificationDocuments[n] |      | documentExpirationDate                    | Date                                      | Optional    |       |       |        |                                                                                     |
| personalIdentificationDocuments[n] |      | documentTitle                             | String                                    | Optional    |       |       |        |                                                                                     |
| personalIdentificationDocuments[n] |      | identificationDocumentUseDescriptor       | Descriptor                                | Optional    |       |       |        |                                                                                     |
| personalIdentificationDocuments[n] |      | issuerCountryDescriptor                   | String                                    | Optional    |       |       |        |                                                                                     |
| personalIdentificationDocuments[n] |      | issuerDocumentIdentificationCode          | String                                    | Optional    |       |       |        |                                                                                     |
| personalIdentificationDocuments[n] |      | issuerName                                | String                                    | Optional    |       |       |        |                                                                                     |

|                                     |  |                                            |                           |                    |     |    |  |                      |
|-------------------------------------|--|--------------------------------------------|---------------------------|--------------------|-----|----|--|----------------------|
| personalIdentification Documents[n] |  | personalInformation VerificationDescriptor | Descriptor                | Optional           |     |    |  |                      |
| \                                   |  | lastName                                   | String                    | <b>Required</b>    | STU | LN |  | GetString(s("LN"))   |
| \                                   |  | maidenName                                 | String                    | Optional           |     |    |  |                      |
| \                                   |  | middleName                                 | String                    | <b>Required</b>    | STU | MN |  | GetString(s("MN"))   |
| \                                   |  | multipleBirthStatus                        | Boolean                   | Optional           |     |    |  |                      |
| \                                   |  | otherNames                                 | List(Of StudentOtherName) | Optional           |     |    |  |                      |
| otherNames[n]                       |  | firstName                                  | String                    | Optional           |     |    |  |                      |
| otherNames[n]                       |  | generationCodeSuffix                       | String                    | Optional           |     |    |  |                      |
| otherNames[n]                       |  | lastName                                   | String                    | Optional           |     |    |  |                      |
| otherNames[n]                       |  | middleName                                 | String                    | Optional           |     |    |  |                      |
| otherNames[n]                       |  | otherNameTypeDescriptor                    | Descriptor                | Optional           |     |    |  |                      |
| otherNames[n]                       |  | personalTitlePrefix                        | String                    | Optional           |     |    |  |                      |
| \                                   |  | personalTitlePrefix                        | String                    | <b>Conditional</b> |     |    |  | Not stored in Aeries |
| \                                   |  | visas                                      | List(Of StudentVisa)      | Optional           |     |    |  |                      |
| visas[n]                            |  | visaDescriptor                             | Descriptor                | Optional           |     |    |  |                      |

## Ed-Fi 3.x Student Homeless Program Association Entity Mapping

### Overview

This document defines the mapping of Aeries data to the Ed-Fi data standard.



**Document Version** 1.0

**Last Updated** 07 Nov 2021

### Status

Ready for v3 certification.

### Description

This association represents the McKinney-Vento Homeless Program program(s) that a student participates in or from which the Student receives services.

### Student Homeless Program Association Links

#### Mapping v3.2.0-c

<https://mappingedu.ed-fi.org/#!/entity/90066848-e7ba-ea11-80df-005056b36109/info?dataStandardId=7ec6133d-e7ba-ea11-80df-005056b36109>

#### Schema v3.2.0-c

<https://schema.ed-fi.org/datahandbook-v320c/#!/StudentHomelessProgramAssociation2785>

<https://schema.ed-fi.org/datahandbook-v320c/#!/GeneralStudentProgramAssociation3051>

#### API v3.4.0

<https://api.ed-fi.org/v3.4.0/docs/index.html#/studentHomelessProgramAssociations>

#### Scenarios v3

<https://techdocs.ed-fi.org/display/EDFICERT/v3+Student+Program+%3E+StudentHomelessProgramAssociation+Scenarios>

### Natural Key

- BeginDate
- EducationOrganizationId
- ProgramEducationOrganizationId
- ProgramName
- ProgramTypeDescriptor
- StudentUniqueId

## Used By

- StudentCompetencyObjectiveSectionOrProgramChoice.GeneralStudentProgramAssociation (as optional collection)
- StudentLearningObjectiveSectionOrProgramChoice.GeneralStudentProgramAssociation (as optional collection)

## Mappings

| Parent                         | Properties                                  | Type                              | Required | Table | Field      | Other                   | Code / Notes                                         |
|--------------------------------|---------------------------------------------|-----------------------------------|----------|-------|------------|-------------------------|------------------------------------------------------|
| \                              | beginDate                                   | Date                              | Identity | PGM   | PSD or ESD | StartDate               | GetNullableDate(s("StartDate"))                      |
| \                              | educationOrganizationReference              | Reference                         | Required |       |            |                         |                                                      |
| educationOrganizationReference | educationOrganizationId                     | Integer                           | Identity | PGM   | SCL        | District ID             | edOrgId see below                                    |
| \                              | programReference                            | Reference                         | Required |       |            |                         |                                                      |
| programReference               | educationOrganizationId                     | Integer                           | Identity | PGM   | SCL        | District ID             | edOrgId see below                                    |
| programReference               | programName                                 | String                            | Identity |       |            | hard code to "Homeless" | GetString("Homeless")                                |
| programReference               | programTypeDescriptor                       | Descriptor                        | Identity |       |            | hard code to "Homeless" | GetV3Descriptor("ProgramTypeDescriptor", "Homeless") |
| \                              | studentReference                            | Reference                         | Required |       |            |                         |                                                      |
| studentReference               | studentUniqueld                             | String                            | Identity | PGM   | PID        |                         | GetString(s("PID"))                                  |
| \                              | awaitingFosterCare                          | Boolean                           | Optional |       |            |                         |                                                      |
| \                              | endDate                                     | Date                              | Optional | PGM   | PED or EED | EndDate                 | GetNullableDate(s("EndDate"))                        |
| \                              | homelessPrimaryNighttimeResidenceDescriptor | Descriptor                        | Required | PGM   | HDT        |                         | When program is 191                                  |
| \                              | homelessProgramServices                     | List (Of homelessProgramServices) | Optional |       |            |                         |                                                      |
| homelessProgramServices        | homelessProgramServiceDescriptor            | Descriptor                        | Optional |       |            |                         |                                                      |
| homelessProgramServices        | primaryIndicator                            | Boolean                           | Optional |       |            |                         |                                                      |
| homelessProgramServices        | serviceBeginDate                            | Date                              | Optional |       |            |                         |                                                      |
| homelessProgramServices        | serviceEndDate                              | Date                              | Optional |       |            |                         |                                                      |
| \                              | homelessUnaccompaniedYouth                  | Boolean                           | Required | PGM   | UY         |                         | When program is 191                                  |
| \                              | participationStatus                         | List (Of participationStatus)     | Optional |       |            |                         |                                                      |
| participationStatus            | participationStatusDescriptor               | Descriptor                        | Optional |       |            |                         |                                                      |
| participationStatus            | designatedBy                                | String                            | Optional |       |            |                         |                                                      |
| participationStatus            | statusBeginDate                             | Date                              | Optional |       |            |                         |                                                      |
| participationStatus            | statusEndDate                               | Date                              | Optional |       |            |                         |                                                      |
| \                              | reasonExitedDescriptor                      | Descriptor                        | Optional |       |            |                         |                                                      |
| \                              | servedOutsideOfRegularSession               | Boolean                           | Optional |       |            |                         |                                                      |

## Code

```
Dim scl As Integer? = GetNullableInteger(rowPGM!SCL)

scl = If(scl, 0)
Dim edOrgId As Integer? = If(scl > 0, scl, OdsConfiguration.DistrictId)
```

## Ed-Fi 3.x Student Language Instruction Program Association Entity Mapping

### Overview

This document defines the mapping of Aeries data to the Ed-Fi data standard.



**Document Version** 1.1

**Last Updated** 24 Oct 2021

### Status

Ready for v3.x Certification.

### Description

This association represents the Title III Language Instruction for Limited English Proficient and Immigrant Students program(s) that a student participates in or from which the Student receives services.

### Student Language Instruction Program Association Links

#### Mapping v3.2.0-c

<https://mappingedu.ed-fi.org/#!/entity/cd066848-e7ba-ea11-80df-005056b36109/info?dataStandardId=7ec6133d-e7ba-ea11-80df-005056b36109>

#### Schema v3.2.0-c

<https://schema.ed-fi.org/datahandbook-v320c/#!/StudentLanguageInstructionProgramAssociation2790>

<https://schema.ed-fi.org/datahandbook-v320c/#!/GeneralStudentProgramAssociation3051>

#### API v3.4.0

<https://api.ed-fi.org/v3.4.0/docs/index.html#/studentLanguageInstructionProgramAssociations>

#### Scenarios v3

<https://techdocs.ed-fi.org/display/EDFICERT/v3+Student+Program+%3E+StudentLanguageInstructionProgramAssociation+Scenarios>

### Natural Keys

- BeginDate
- EducationOrganizationId
- ProgramEducationOrganizationId
- ProgramName
- ProgramTypeDescriptor
- StudentUniqueld

### Used By

- StudentCompetencyObjectiveSectionOrProgramChoice.GeneralStudentProgramAssociation (as optional collection)
- StudentLearningObjectiveSectionOrProgramChoice.GeneralStudentProgramAssociation (as optional collection)

### Mappings

| Parent                                                         | Properties                                  | Type                                          | Required | Table | Field | Other                                           | Code / Notes                                                                                                                                         |
|----------------------------------------------------------------|---------------------------------------------|-----------------------------------------------|----------|-------|-------|-------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|
| \                                                              | beginDate                                   | Date                                          | Identity | LAC   | SD    | BEGIN_DATE                                      | GetNullableDate(s("StartDate"))<br><br>EO, or IFEP, or RFEP<br><br>if stu.If is blank or e use district start date                                   |
| \                                                              | educationOrganizationReference              | Class                                         | Required |       |       |                                                 |                                                                                                                                                      |
| educationOrganizationReference                                 | educationOrganizationId                     | Integer                                       | Identity | STU   | SC    | SC or DistrictId                                | If(STU.SC > 0, STU.SC, OdsConfiguration.DistrictId)                                                                                                  |
| \                                                              | programReference                            | Class                                         | Required |       |       |                                                 |                                                                                                                                                      |
| programReference                                               | educationOrganizationId                     | Integer                                       | Identity |       |       | DistrictId                                      | OdsConfiguration.DistrictId                                                                                                                          |
| programReference                                               | programName                                 | String                                        | Identity |       |       | Hard Coded                                      | Hard Coded to 'English as a Second Language (ESL)'                                                                                                   |
| programReference                                               | programTypeDescriptor                       | Descriptor                                    | Identity |       |       | Hard Coded                                      | Hard Coded to 'English as a Second Language (ESL)'                                                                                                   |
| \                                                              | studentReference                            | Class                                         | Required |       |       |                                                 |                                                                                                                                                      |
| studentReference                                               | studentUniqueId                             | String                                        | Identity | STU   | ID    |                                                 | GetString(s("ID"))                                                                                                                                   |
| \                                                              | dosage                                      | Number                                        | Optional |       |       |                                                 |                                                                                                                                                      |
| \                                                              | endDate                                     | Date                                          | Optional | LAC   | ED    | END_DATE                                        | GetNullableDate(s("END_DATE"))                                                                                                                       |
| \                                                              | englishLanguageProficiencyAssessments       | List(Of englishLanguageProficiencyAssessment) | Required |       |       |                                                 | Only Latest values are sent                                                                                                                          |
| englishLanguageProficiencyAssessment[]                         | monitoredDescriptor                         | Descriptor                                    | Required |       |       | MONITORED_DESCRIPTOR                            | This comes from different places for CA and TX (see SQL)<br><br>GetEdFiCodeValue(MonitoredDescriptor, "STU", "LF", rowLAC!MONITORED_DESCRIPTOR)      |
| englishLanguageProficiencyAssessment[]                         | participationDescriptor                     | Descriptor                                    | Required | TST   | PL    | PL_INT                                          | This comes from TST and looks for different TST.ID values for CA and TX<br><br>GetEdFiCodeValue(ParticipationDescriptor, "TST", "PL", rowLAC!PL_INT) |
| englishLanguageProficiencyAssessment[]                         | proficiencyDescriptor                       | Descriptor                                    | Required | TST   | PL    | PL_INT                                          | This comes from TST and looks for different TST.ID values for CA and TX<br><br>GetEdFiCodeValue(ProficiencyDescriptor, "TST", "PL", rowLAC!PL_INT)   |
| englishLanguageProficiencyAssessment[]                         | progressDescriptor                          | Descriptor                                    | Optional |       |       |                                                 |                                                                                                                                                      |
| englishLanguageProficiencyAssessment[]                         | schoolYearTypeReference                     | Class                                         | Required |       |       |                                                 |                                                                                                                                                      |
| englishLanguageProficiencyAssessment[]\schoolYearTypeReference | schoolYear                                  | Integer                                       | Required | TST   | TD    | SCHOOL_YR                                       | YR from the last day of DAY, YR = Year(TST.TD)                                                                                                       |
| \                                                              | englishLearnerParticipation                 | Boolean                                       | Required |       |       | ENGLISH_LEARNER_PARTICIPATION                   | GetNullableBoolean(s("ENGLISH_LEARNER_PARTICIPATION"))                                                                                               |
| \                                                              | LanguageInstructionProgramServices[]        | List(Of LanguageInstructionProgramService)    | Required |       |       |                                                 | Create just 1 record (only works for CA)                                                                                                             |
| LanguageInstructionProgramService[]                            | LanguageInstructionProgramServiceDescriptor | Descriptor                                    | Required | LAC   | SR    | LANGUAGE_INSTRUCTION_PROGRAM_SERVICE_DESCRIPTOR | GetEdFiCodeValue(LanguageInstructionProgramServiceDescriptor, "LAC", "SR", rowLAC!LANGUAGE_INSTRUCTION_PROGRAM_SERVICE_DESCRIPTOR)                   |
| LanguageInstructionProgramService[]                            | primaryIndicator                            | Boolean                                       | Optional |       |       |                                                 |                                                                                                                                                      |
| LanguageInstructionProgramService[]                            | serviceBeginDate                            | Date                                          | Optional |       |       |                                                 |                                                                                                                                                      |

|                                         |                                                    |            |          |  |  |  |  |
|-----------------------------------------|----------------------------------------------------|------------|----------|--|--|--|--|
| LanguageInstruction<br>ProgramService[] | serviceEndDate                                     | Date       | Optional |  |  |  |  |
| \                                       | participationStatus                                | Class      | Optional |  |  |  |  |
| participationStatus                     | <a href="#">participationStatus<br/>Descriptor</a> | Descriptor | Optional |  |  |  |  |
| participationStatus                     | designatedBy                                       | String     | Optional |  |  |  |  |
| participationStatus                     | statusBeginDate                                    | Date       | Optional |  |  |  |  |
| participationStatus                     | statusEndDate                                      | Date       | Optional |  |  |  |  |
| \                                       | reasonExited<br>Descriptor                         | Descriptor | Optional |  |  |  |  |
| \                                       | servedOutsideOf<br>RegularSession                  | Boolean    | Optional |  |  |  |  |

## Ed-Fi 3.x Student Migrant Education Program Association Entity Mapping

### Overview

This document defines the mapping of Aeries data to the Ed-Fi data standard.



### Status

Ready for v3 certification

**Document Version** 1.0

**Last Updated** 06 Nov 2021

### Description

This association represents the migrant education program(s) that a student participates in or receives services from. The association is an extension of the StudentProgramAssociation with added elements particular to migrant education programs.

### Student Migrant Education Program Association Links

#### Mapping v3.2.0-c

<https://mappingedu.ed-fi.org/#!/entity/1e076848-e7ba-ea11-80df-005056b36109/info?dataStandardId=7ec6133d-e7ba-ea11-80df-005056b36109>

#### Schema v3.2.0-c

<https://schema.ed-fi.org/datahandbook-v320c/#!/StudentMigrantEducationProgramAssociation610>

<https://schema.ed-fi.org/datahandbook-v320c/#!/GeneralStudentProgramAssociation3051>

#### API v3.4.0

<https://api.ed-fi.org/v3.4.0/docs/index.html#/studentMigrantEducationProgramAssociations>

#### Scenarios v3

<https://techdocs.ed-fi.org/display/EDFICERT/v3+Student+Program+%3E+StudentMigrantProgramAssociation+Scenarios>

### Natural Key

- BeginDate
- EducationOrganizationId
- ProgramEducationOrganizationId
- ProgramName
- ProgramTypeDescriptor
- StudentUniqueId

### Used By

- StudentCompetencyObjectiveSectionOrProgramChoice.GeneralStudentProgramAssociation (as optional collection)
- StudentLearningObjectiveSectionOrProgramChoice.GeneralStudentProgramAssociation (as optional collection)

### Mappings

| Parent                           | Properties                               | Type                                    | Required    | Table | Field      | Other                            | Code / Notes                                                                                   |
|----------------------------------|------------------------------------------|-----------------------------------------|-------------|-------|------------|----------------------------------|------------------------------------------------------------------------------------------------|
| \                                | beginDate                                | Date                                    | Identity    | PGM   | PSD or ESD | START_DATE                       | GetNullableDate(s("START_DATE"))                                                               |
| \                                | educationOrganizationReference           | Class                                   | Required    |       |            |                                  |                                                                                                |
| educationOrganizationReference   | educationOrganizationId                  | Integer                                 | Identity    | PGM   | SCL        | DistrictId                       | If(schoolCode > 0, schoolCode, OdsConfiguration.DistrictId)                                    |
| \                                | programReference                         | Class                                   | Required    |       |            |                                  |                                                                                                |
| programReference                 | educationOrganizationId                  | Integer                                 | Identity    |       |            | DistrictId                       | OdsConfiguration.DistrictId                                                                    |
| programReference                 | programName                              | String                                  | Identity    |       |            | hard code to "Migrant Education" | hard code to "Migrant Education"                                                               |
| programReference                 | programTypeDescriptor                    | Descriptor                              | Identity    |       |            | hard code to "Migrant Education" | GetV3Descriptor("ProgramTypeDescriptor", "Migrant Education")                                  |
| \                                | studentReference                         | Class                                   | Required    |       |            |                                  |                                                                                                |
| studentReference                 | studentUniqueld                          | String                                  | Identity    | PGM   | PID        |                                  | GetString(s("PID"))                                                                            |
| \                                | endDate                                  | Date                                    | Optional    | PGM   | PED or EED | END_DATE                         | GetNullableDate(s("END_DATE"))                                                                 |
| \                                | migrantEducationProgramServices          | List(Of MigrantEducationProgramService) | Conditional |       |            |                                  |                                                                                                |
| migrantEducationProgramService[] | migrantEducationProgramServiceDescriptor | Descriptor                              | Conditional | PGS   | SR         |                                  | GetEdFiCodeValue(MigrantEducationProgramServiceDescriptor, "PGS", "SR", rowProgramServices!SR) |
| migrantEducationProgramService[] | primaryIndicator                         | Boolean                                 | Optional    |       |            |                                  |                                                                                                |
| migrantEducationProgramService[] | serviceBeginDate                         | Date                                    | Optional    |       |            |                                  |                                                                                                |
| migrantEducationProgramService[] | serviceEndDate                           | Date                                    | Optional    |       |            |                                  |                                                                                                |
| \                                | participationStatus                      | Class                                   | Optional    |       |            |                                  |                                                                                                |
| participationStatus              | participationStatusDescriptor            | Descriptor                              | Optional    |       |            |                                  |                                                                                                |
| participationStatus              | designatedBy                             | String                                  | Optional    |       |            |                                  |                                                                                                |
| participationStatus              | statusBeginDate                          | Date                                    | Optional    |       |            |                                  |                                                                                                |
| participationStatus              | statusEndDate                            | Date                                    | Optional    |       |            |                                  |                                                                                                |
| \                                | reasonExitedDescriptor                   | Descriptor                              | Optional    |       |            |                                  |                                                                                                |
| \                                | servedOutsideOfRegularSession            | Boolean                                 | Optional    |       |            |                                  |                                                                                                |
| \                                | priorityForServices                      | Boolean                                 | Required    | PGM   | CD         | PRIMARY_N                        | must have 135 migrant and 172 at risk to return "true"                                         |
| \                                | lastQualifyingMove                       | Date                                    | Required    | STU   | DD         | DISTRICT_ENTER_DATE              | GetNullableDate(s("DISTRICT_ENTER_DATE"))                                                      |
| \                                | continuationOfServicesReasonDescriptor   | Descriptor                              | Optional    |       |            |                                  |                                                                                                |
| \                                | usInitialEntry                           | Date                                    | Optional    |       |            |                                  |                                                                                                |
| \                                | usMostRecentEntry                        | Date                                    | Optional    |       |            |                                  |                                                                                                |
| \                                | usInitialSchoolEntry                     | Date                                    | Optional    |       |            |                                  |                                                                                                |
| \                                | qualifyingArrivalDate                    | Date                                    | Optional    |       |            |                                  |                                                                                                |
| \                                | stateResidencyDate                       | Date                                    | Optional    |       |            |                                  |                                                                                                |
| \                                | eligibilityExpirationDate                | Date                                    | Optional    |       |            |                                  |                                                                                                |

## Ed-Fi 3.x Student Neglected Or Delinquent Program Association Entity Mapping Overview

This document defines the mapping of Aeries data to the Ed-Fi data standard.



## Status

Ready for v3.x Certification.

## Description

This association represents the Title I Part D Neglected or Delinquent program(s) that a student participates in or from which the Student receives services.

## Student Neglected Or Delinquent Program Association Links

### Mapping v3.2.0-c

<https://mappingedu.ed-fi.org/#!/entity/3e076848-e7ba-ea11-80df-005056b36109/info?dataStandardId=7ec6133d-e7ba-ea11-80df-005056b36109>

### Schema v3.2.0-c

<https://schema.ed-fi.org/datahandbook-v320c/#!/StudentNeglectedOrDelinquentProgramAssociation2798>

### API v3.4.0

<https://api.ed-fi.org/v3.4.0/docs/index.html#/studentNeglectedOrDelinquentProgramAssociations>

### Scenarios v3

<https://techdocs.ed-fi.org/display/EDFICERT/v3+Student+Program+%3E+StudentNeglectedOrDelinquentProgramAssociation+Scenarios>

## Natural Key

- BeginDate
- EducationOrganizationId
- ProgramEducationOrganizationId
- ProgramName
- ProgramTypeDescriptor
- StudentUniqueId

## Used By

- StudentCompetencyObjectiveSectionOrProgramChoice.GeneralStudentProgramAssociation (as optional collection)
- StudentLearningObjectiveSectionOrProgramChoice.GeneralStudentProgramAssociation (as optional collection)

## Mappings

| Parent                         | Properties                     | Type    | Required | Table | Field      | Other                                           | Code / Notes                                  |
|--------------------------------|--------------------------------|---------|----------|-------|------------|-------------------------------------------------|-----------------------------------------------|
| \                              | beginDate                      | Date    | Identity | PGM   | PSD or ESD | START_DATE                                      | GetNullableDate(s("START_DATE"))              |
| \                              | educationOrganizationReference | Class   | Required |       |            |                                                 |                                               |
| educationOrganizationReference | educationOrganizationId        | Integer | Identity | PGM   | SCL        |                                                 | GetNullableInteger(rowSTU!SCL)                |
| \                              | programReference               | Class   | Required |       |            |                                                 |                                               |
| programReference               | educationOrganizationId        | Integer | Identity |       |            |                                                 | OdsConfiguration.DistrictId                   |
| programReference               | programName                    | String  | Identity |       |            | hard code to "Neglected and Delinquent Program" | GetString("Neglected and Delinquent Program") |

|                                         |                                               |                                               |          |     |            |                                                 |                                                                                                                             |
|-----------------------------------------|-----------------------------------------------|-----------------------------------------------|----------|-----|------------|-------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| programReference                        | programTypeDescriptor                         | Descriptor                                    | Identity |     |            | hard code to "Neglected and Delinquent Program" | GetV3Descriptor("ProgramTypeDescriptor", "Neglected and Delinquent Program")                                                |
| \                                       | studentReference                              | Class                                         | Required |     |            |                                                 |                                                                                                                             |
| studentReference                        | studentUniqueId                               | String                                        | Identity | PGM | PID        |                                                 | GetString(s("PID"))                                                                                                         |
| \                                       | endDate                                       | Date                                          | Optional | PGM | PED or EED | END_DATE                                        | GetNullableDate(s("END_DATE"))                                                                                              |
| \                                       | neglectedOrDelinquentProgramServices          | List (Of neglectedOrDelinquentProgramService) | Required |     |            |                                                 |                                                                                                                             |
| neglectedOrDelinquentProgramServices[ ] | neglectedOrDelinquentProgramServiceDescriptor | Descriptor                                    | Required | PGS | SR         |                                                 | GetEdFiCodeValue(EdFiResourceDescriptors.NeglectedOrDelinquentProgramServiceDescriptor, "PGS", "SR", rowProgramServices!SR) |
| neglectedOrDelinquentProgramService[ ]  | primaryIndicator                              | Boolean                                       | Optional |     |            |                                                 |                                                                                                                             |
| neglectedOrDelinquentProgramService[ ]  | serviceBeginDate                              | Date                                          | Optional |     |            |                                                 |                                                                                                                             |
| neglectedOrDelinquentProgramService[ ]  | serviceEndDate                                | Date                                          | Optional |     |            |                                                 |                                                                                                                             |
| \                                       | participationStatus                           | Class                                         | Optional |     |            |                                                 |                                                                                                                             |
| participationStatus                     | participationStatusDescriptor                 | Descriptor                                    | Optional |     |            |                                                 |                                                                                                                             |
| participationStatus                     | designatedBy                                  | String                                        | Optional |     |            |                                                 |                                                                                                                             |
| participationStatus                     | statusBeginDate                               | Date                                          | Optional |     |            |                                                 |                                                                                                                             |
| participationStatus                     | statusEndDate                                 | Date                                          | Optional |     |            |                                                 |                                                                                                                             |
| \                                       | reasonExitedDescriptor                        | Descriptor                                    | Optional |     |            |                                                 |                                                                                                                             |
| \                                       | servedOutsideOfRegularSession                 | Boolean                                       | Optional |     |            |                                                 |                                                                                                                             |
| \                                       | neglectedOrDelinquentProgramDescriptor        | Descriptor                                    | Required |     |            | hard code to "Other Programs"                   | GetV3Descriptor ("NeglectedOrDelinquentProgramDescriptor", "Other Programs")<br>not a value stored in Aeries                |
| \                                       | elaProgressLevelDescriptor                    | Descriptor                                    | Optional |     |            |                                                 |                                                                                                                             |
| \                                       | mathematicsProgressLevelDescriptor            | Descriptor                                    | Optional |     |            |                                                 |                                                                                                                             |

## Ed-Fi 3.x Student Parent Association Entity Mapping

### Overview

This document defines the mapping of Aeries data to the Ed-Fi data standard.



### Status

Ready for v3 certification.

**Document Version 1.0**

**Last Updated 07 Nov 2021**

### Description

This association relates students to their parents, guardians, or caretakers.

### Student Parent Association Links

#### Mapping v3.2.0-c

<https://mappingedu.ed-fi.org/#!/entity/56076848-e7ba-ea11-80df-005056b36109/info?dataStandardId=7ec6133d-e7ba-ea11-80df-005056b36109>

Schema v3.2.0-c  
<https://schema.ed-fi.org/datahandbook-v320c/##StudentParentAssociation611>

API v3.4.0  
<https://api.ed-fi.org/v3.4.0/docs/index.html#studentParentAssociations>

Scenarios v3  
<https://techdocs.ed-fi.org/display/EDFICERT/v3+Parent+%3E+StudentParentAssociation+Scenarios>

Natural Key

- ParentUniqueid
- StudentUniqueid

Used By

- tbd

Logic

While looping through SQL results, only output IF LW = "Y" OR ERH = "Y" OR PC = "Y" OR AP = "Y"

Mapping

| Parent           | Properties             | Type             | Required | Table    | Field          | Other                 | Code / Notes                                                                  |
|------------------|------------------------|------------------|----------|----------|----------------|-----------------------|-------------------------------------------------------------------------------|
| \                | contactPriority        | Integer          | Optional |          |                |                       |                                                                               |
| \                | contactRestrictions    | String           | Optional |          |                |                       |                                                                               |
| \                | emergencyContactStatus | Boolean          | Required | CON      | CD             |                       | GetNullableBoolean(GetEdFiCodeValue(BooleanType, "CON", "CD", rowCON!CD))     |
| \                | livesWith              | Boolean          | Optional |          |                |                       |                                                                               |
| \                | parentReference        | ParentReference  | Identity |          |                |                       |                                                                               |
| ParentReference  | link                   | Link             | Optional |          |                |                       |                                                                               |
| ParentReference  | parentUniqueid         | String           | Identity | STU, CON | STU.ID, CON.SQ | STU.ID & "-" & CON.SQ | GetString(s("ID")) & "-" & GetString(s("SQ"))                                 |
| \                | primaryContactStatus   | Boolean          | Required | CON      | PC             |                       | GetNullableBoolean(s("PC"))<br><br>Always "Y" or "N"<br>No translation needed |
|                  | relationType           | String           | Required | CON      | RL             |                       | GetEdFiCodeValue(RelationType, "CON", "RL", rowCON!RL)                        |
| \                | studentReference       | StudentReference | Identity |          |                |                       |                                                                               |
| studentReference | link                   | Link             | Optional |          |                |                       |                                                                               |
| studentReference | studentUniqueid        | String           | Identity | STU      | ID             |                       | GetString(s("ID"))                                                            |

```
[
  {
    "id": "string",
```

```

    "parentReference": {
      "parentUniqueId": "string",
      "link": {
        "rel": "string",
        "href": "string"
      }
    },
    "studentReference": {
      "studentUniqueId": "string",
      "link": {
        "rel": "string",
        "href": "string"
      }
    },
    "contactPriority": 0,
    "contactRestrictions": "string",
    "emergencyContactStatus": true,
    "livesWith": true,
    "primaryContactStatus": true,
    "relationDescriptor": "string",
    "_etag": "string"
  }
]

```

## Ed-Fi 3.x Student Program Association Entity Mapping

### Overview

This document defines the mapping of Aeries data to the Ed-Fi data standard.



**Document Version 1.0**

**Last Updated 06 Nov 2021**

### Status

Ready for v3 certification

### Description

This association represents the Program(s) that a student participates in or is served by.

### Student Program Association Links

#### Mapping v3.2.0-c

<https://mappingedu.ed-fi.org/#!/entity/62076848-e7ba-ea11-80df-005056b36109/info?dataStandardId=7ec6133d-e7ba-ea11-80df-005056b36109>

#### Schema v3.2.0-c

<https://schema.ed-fi.org/datahandbook-v320c/#!/StudentProgramAssociation612>

<https://schema.ed-fi.org/datahandbook-v320c/#!/GeneralStudentProgramAssociation3051>

#### API v3.4.0

<https://api.ed-fi.org/v3.4.0/docs/index.html#/studentProgramAssociations>

#### Scenarios v3

<https://techdocs.ed-fi.org/display/EDFICERT/v3+StudentProgram+%3E+StudentProgramAssociation+Scenarios>

### Natural Key

- BeginDate
- EducationOrganizationId
- ProgramEducationOrganizationId
- ProgramName
- ProgramTypeDescriptor
- StudentUniqueId

## Used By

- StudentCompetencyObjectiveSectionOrProgramChoice.GeneralStudentProgramAssociation (as optional collection)
- StudentLearningObjectiveSectionOrProgramChoice.GeneralStudentProgramAssociation (as optional collection)

## Entity Mapping

| Parent                         | Property                       | Type                                              | Required        | Table | Field      | Other       | Code / Notes                                                                                                                                                                                                                    |
|--------------------------------|--------------------------------|---------------------------------------------------|-----------------|-------|------------|-------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| \                              | beginDate                      | Date                                              | <b>Identity</b> | PGM   | PSD or ESD | StartDate   | GetNullableDate(s("StartDate"))                                                                                                                                                                                                 |
| \                              | educationOrganizationReference | EducationOrganizationReference                    | Identity        |       |            |             |                                                                                                                                                                                                                                 |
| educationOrganizationReference | educationOrganizationId        | Integer                                           | <b>Identity</b> | PGM   | SCL        | District ID | scl As = GetNullableInteger(rowPGM!SCL)<br>scl = If(scl, 0)<br><br>If(scl > 0, scl, DistrictId)                                                                                                                                 |
| \                              | endDate                        | Date                                              | Optional        | PGM   | PED or EED | EndDate     | GetNullableDate(s("EndDate"))                                                                                                                                                                                                   |
| \                              | participationStatus            |                                                   |                 |       |            |             |                                                                                                                                                                                                                                 |
| participationStatus            | participationStatusDescriptor  | List (Of participationStatus)                     |                 |       |            |             |                                                                                                                                                                                                                                 |
| participationStatus            | designatedBy                   | String                                            |                 |       |            |             |                                                                                                                                                                                                                                 |
| participationStatus            | statusBeginDate                | Date                                              |                 |       |            |             |                                                                                                                                                                                                                                 |
| participationStatus            | statusEndDate                  | Date                                              |                 |       |            |             |                                                                                                                                                                                                                                 |
| \                              | programReference               | ProgramReference                                  | Identity        |       |            |             |                                                                                                                                                                                                                                 |
| programReference               | educationOrganizationId        | Integer                                           | <b>Identity</b> | PGM   | SCL        | District ID | scl As = GetNullableInteger(rowPGM!SCL)<br>scl = If(scl, 0)<br><br>If(scl > 0, scl, DistrictId)                                                                                                                                 |
| programReference               | programName                    | String                                            | <b>Identity</b> | PGM   | CD         |             | If rowPGM!CD = "144" Then<br>.name = "Special Education",<br>Else<br>.name = GetMaxLengthString<br>(GetDescription(scl, "PGM", "CD",<br>rowPGM!CD), 60),<br>End If<br><br>Max Length is 60 chars or it<br>will fail validation! |
| programReference               | programTypeDescriptor          | Descriptor                                        | <b>Identity</b> | PGM   | CD         |             | GetEdFiCodeValue<br>(ProgramTypeDescriptor,<br>"PGM", "CD", rowPGM!CD)<br><br>If unable to map ProgramType the<br>entity will NOT be uploaded to the<br>ODS, and no error message will be<br>returned.                          |
| \                              | reasonExitedDescriptor         | ReasonExitedDescriptor<br><br>ReasonExitedMapType | Optional        |       |            |             |                                                                                                                                                                                                                                 |
| \                              | servedOutsideOfRegularSession  | Boolean                                           | Optional        |       |            |             |                                                                                                                                                                                                                                 |
| \                              | services                       | List(Of StudentProgramAssociationService)         | Optional        |       |            |             |                                                                                                                                                                                                                                 |
| services                       | primaryIndicator               | True                                              | Optional        |       |            |             |                                                                                                                                                                                                                                 |

|                  |                   |                   |                 |     |     |  |                     |
|------------------|-------------------|-------------------|-----------------|-----|-----|--|---------------------|
| services         | serviceBeginDate  | Date              | Optional        |     |     |  |                     |
| services         | serviceDescriptor | ServiceDescriptor | Optional        |     |     |  |                     |
| services         | serviceEndDate    | Date              | Optional        |     |     |  |                     |
| \                | studentReference  | StudentReference  | Identity        |     |     |  |                     |
| studentReference | studentUniquelId  | String            | <b>Identity</b> | PGM | PID |  | GetString(s("PID")) |

## Ed-Fi 3.x Student School Association Entity Mapping

### Overview

This document defines the mapping of Aeries data to the Ed-Fi data standard.



**Document Version 1.0**

**Last Updated 07 Nov 2021**

### Status

Ready for v3 certification.

### Description

This association represents the School in which a student is enrolled. The semantics of enrollment may differ slightly by state. Non-enrollment relationships between a student and an education organization may be described using the StudentEducationOrganizationAssociation.

### Student School Association Links

#### Mapping v3.2.0-c

<https://mappingedu.ed-fi.org/#!/entity/8c076848-e7ba-ea11-80df-005056b36109/info?dataStandardId=7ec6133d-e7ba-ea11-80df-005056b36109>

#### Schema v3.2.0-c

<https://schema.ed-fi.org/datahandbook-v320c/#!/StudentSchoolAssociation613>

#### API v3.4.0

<https://api.ed-fi.org/v3.4.0/docs/index.html#/studentSchoolAssociations>

#### Scenarios v3

<https://techdocs.ed-fi.org/display/EDFICERT/v3+Student+Enrollment+%3E+StudentSchoolAssociation+Scenarios>

### Natural Key

- EntryDate
- SchoolId
- StudentUniquelId

### Used By

- tbd

### Entity Mapping

| Parent            | Property                           | Type    | Required        | Table | Field | Other | Code / Notes             |
|-------------------|------------------------------------|---------|-----------------|-------|-------|-------|--------------------------|
| \                 | entryDate                          | Date    | <b>Identity</b> | ENR   | ED    |       | GetNullableDate(s("ED")) |
| \                 | calendarReference                  | Class   | Optional        |       |       |       |                          |
| calendarReference | calendarReference                  | String  | Optional        |       |       |       |                          |
| calendarReference | schoolId                           | Integer | Optional        |       |       |       |                          |
| calendarReference | schoolYear                         | Integer | Optional        |       |       |       |                          |
| \                 | classOfSchoolYear<br>TypeReference | Class   | Optional        |       |       |       |                          |
|                   | schoolYear                         | Integer | Optional        |       |       |       |                          |

|                                        |                                     |                                            |                 |     |                         |                            |                                                                                                                                                                                                                                                                                      |
|----------------------------------------|-------------------------------------|--------------------------------------------|-----------------|-----|-------------------------|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| classOfSchoolYear<br>TypeReference     |                                     |                                            |                 |     |                         |                            |                                                                                                                                                                                                                                                                                      |
| \                                      | graduationPlan<br>Reference         | Class                                      | <b>Required</b> |     |                         |                            | DO NOT SEND graduationPlan<br>data for previous year enrollment<br><br>Only Students in Grades 9-12 will<br>have this data extracted.                                                                                                                                                |
| graduationPlan<br>Reference            | education<br>OrganizationId         | Integer                                    | <b>Required</b> | ENR | SC                      |                            | GetNullableInteger(s("SC"))                                                                                                                                                                                                                                                          |
| graduationPlan<br>Reference            | graduationPlanTypeDescriptor        | Descriptor                                 | <b>Required</b> | STU | GRT                     | Mapped                     | GetEdFiCodeValue(<br>GraduationPlanTypeDescriptor,<br>"REQ", "GRT", rowENR!GRT)                                                                                                                                                                                                      |
| graduationPlan<br>Reference            | graduationSchoolYear                | Integer                                    | <b>Required</b> | ENR | 13- GR +<br>CurrentYear | function<br>call:          | GetGraduationSchoolYear<br>(rowENR!GR)<br>where rowENR!GR is grade<br><br>13 - If(grade > 12, 12, grade) +<br>currentSchoolYear<br><br>where currentSchoolYear is<br>DAY_Functions.<br>GetCurrentYear(0,<br>connectionString)<br><br>GetGraduationYear(<br>dr!GR, CurrentSchoolYear) |
| \                                      | schoolReference                     | SchoolReference                            | <b>Required</b> |     |                         |                            |                                                                                                                                                                                                                                                                                      |
| schoolReference                        | schoolId                            | Integer                                    | <b>Identity</b> | ENR | SC                      |                            | GetNullableInteger(s("SC"))                                                                                                                                                                                                                                                          |
| \                                      | schoolYearType<br>Reference         | SchoolYearType<br>Reference                | Optional        |     |                         |                            |                                                                                                                                                                                                                                                                                      |
| schoolYearType<br>Reference            | schoolYear                          | Integer                                    | Optional        | ENR | YR+1                    |                            | If(GetNullableInteger(s("YR")).<br>HasValue,<br>GetNullableInteger(s("YR")).Value<br>+ 1,<br>Nothing)                                                                                                                                                                                |
| \                                      | studentReference                    | Class                                      | <b>Required</b> |     |                         |                            |                                                                                                                                                                                                                                                                                      |
| studentReference                       | studentUniqueId                     | String                                     | <b>Identity</b> | ENR | ID                      |                            | GetString(s("ID"))                                                                                                                                                                                                                                                                   |
|                                        | alternativeGraduationPlans          | List (Of<br>alternativeGraduat<br>ionPlan) | Optional        |     |                         |                            |                                                                                                                                                                                                                                                                                      |
| alternativeGraduationPlan<br>[1]       | alternativeGraduationPlanReference  | Class                                      | Optional        |     |                         |                            |                                                                                                                                                                                                                                                                                      |
| alternativeGraduationPlanR<br>eference | educationOrganizationId             | Integer                                    | Optional        |     |                         |                            |                                                                                                                                                                                                                                                                                      |
| alternativeGraduationPlanR<br>eference | graduationPlanTypeDescriptor        | Descriptor                                 | Optional        |     |                         |                            |                                                                                                                                                                                                                                                                                      |
| alternativeGraduationPlanR<br>eference | graduationSchoolYear                | Integer                                    | Optional        |     |                         |                            |                                                                                                                                                                                                                                                                                      |
| \                                      | educationPlans                      | List(Of<br>educationPlan)                  | Optional        |     |                         |                            |                                                                                                                                                                                                                                                                                      |
| educationPlan[1]                       | educationPlanDescriptor             | Descriptor                                 | Optional        |     |                         |                            |                                                                                                                                                                                                                                                                                      |
| \                                      | employedWhile<br>Enrolled           | Boolean                                    | Optional        |     |                         |                            |                                                                                                                                                                                                                                                                                      |
| \                                      | entryGradeLevel<br>Descriptor       | Descriptor                                 | <b>Required</b> | ENR | GR                      | Mapped                     | GetEdFiCodeValue(<br>GradeLevelDescriptor,<br>"STU", "GR", drENR!GR)                                                                                                                                                                                                                 |
| \                                      | entryGradeLevel<br>ReasonDescriptor | Descriptor                                 | Optional        |     |                         |                            |                                                                                                                                                                                                                                                                                      |
| \                                      | entryTypeDescriptor                 | Descriptor                                 | <b>Required</b> |     |                         | Hard<br>code to<br>"Other" | Not stored in Aeries<br>GetV3Descriptor<br>("EntryTypeDescriptor", "Other")                                                                                                                                                                                                          |
|                                        | exitWithdrawDate                    | Date                                       | <b>Required</b> | ENR | LD                      |                            | GetNullableDate(s("LD"))                                                                                                                                                                                                                                                             |
| \                                      | exitWithdraw<br>TypeDescriptor      | Descriptor                                 | <b>Required</b> | ENR | ER                      | Mapped                     | GetEdFiCodeValue(<br>ExitWithdrawTypeDescriptor,<br>"ATT", "RS", drENR!ER)<br><br>mapped from ATT.RS code sets.                                                                                                                                                                      |
| \                                      | fullTimeEquivalency                 | Integer                                    | Optional        |     |                         |                            |                                                                                                                                                                                                                                                                                      |
| \                                      | primarySchool                       | Boolean                                    | Optional        |     |                         |                            |                                                                                                                                                                                                                                                                                      |
| \                                      | repeatGradeIndicator                | Boolean                                    | <b>Required</b> | RET | CD                      | Mapped                     | GetNullableBoolean<br>(GetEdFiCodeValue(                                                                                                                                                                                                                                             |

|   |                               |            |          |     |    |        |                                                                                                                       |
|---|-------------------------------|------------|----------|-----|----|--------|-----------------------------------------------------------------------------------------------------------------------|
|   |                               |            |          |     |    |        | EdFiResourceTypes.<br>BooleanType,<br>"RET", "CD", rowENR!RET_CD)                                                     |
| \ | residencyStatus<br>Descriptor | Descriptor | Required | ENR | IT | Mapped | GetEdFiCodeValue(<br>ResidencyStatusDescriptor,<br>"STU", "IT", drENR!IT)                                             |
| \ | schoolChoiceTransfer          | Boolean    | Required | ENR | IT | Mapped | GetNullableBoolean(EdFiTypes.<br>GetEdFiCodeValue<br>(EdFiResourceTypes.<br>BooleanType, "STU", "IT.2",<br>rowENR!IT) |
| \ | termCompletionIndicator       | Boolean    | Optional |     |    |        |                                                                                                                       |

## Ed-Fi 3.x Student School Attendance Event Entity Mapping

### Overview

This document defines the mapping of Aeries data to the Ed-Fi data standard.



**Document Version 1.0**

**Last Updated 07 Nov 2021**

### Status

Ready for v3 certification.

### Description

This event entity represents the recording of whether a student is in attendance for a school day.

### Student School Attendance Event Links

#### Mapping v3.2.0-c

<https://mappingedu.ed-fi.org/#!/entity/b0076848-e7ba-ea11-80df-005056b36109/info?dataStandardId=7ec6133d-e7ba-ea11-80df-005056b36109>

#### Schema v3.2.0-c

<https://schema.ed-fi.org/datahandbook-v320c/#!/StudentSchoolAttendanceEvent593>

#### API v3.4.0

<https://api.ed-fi.org/v3.4.0/docs/index.html#/studentSchoolAttendanceEvents>

#### Scenarios v3

<https://techdocs.ed-fi.org/display/EDFICERT/v3+Student+Attendance+%3E+StudentSchoolAttendanceEvent+Scenarios>

### Natural Key

- AttendanceEventCategoryDescriptor
- EventDate
- SchoolId
- SchoolYear
- SessionName
- StudentUniqueId

### Used By

- None

### Entity Mapping

We get a list of these items from a single row from the ATT table - We create one item for each of the AL, A0-A9 column values, when any are found.

| Parent | Property  | Type | Required | Table | Field | Other | Code / Notes               |
|--------|-----------|------|----------|-------|-------|-------|----------------------------|
| \      | eventDate | Date | Identity | ATT   | DT    |       | GetNullableDate(rowATT!DT) |

|                  |                                       |                  |                 |     |            |  |                                                                                                                          |
|------------------|---------------------------------------|------------------|-----------------|-----|------------|--|--------------------------------------------------------------------------------------------------------------------------|
| \                | schoolReference                       | SchoolReference  | Identity        |     |            |  |                                                                                                                          |
| schoolReference  | schoolId                              | Integer          | <b>Identity</b> | ATT | SC         |  | GetNullableInteger(s("SC"))                                                                                              |
| \                | sessionReference                      | SessionReference | Identity        |     |            |  |                                                                                                                          |
| sessionReference | schoolId                              | Integer          | <b>Identity</b> | ATT | SC         |  | GetNullableInteger(s("SC"))                                                                                              |
| sessionReference | schoolYear                            | Integer          | <b>Identity</b> | ATT | SchoolYear |  | GetNullableInteger(s("SchoolYear"))<br>GetCurrentYear() + 1 (see below)                                                  |
| sessionReference | sessionName                           | string           | <b>Identity</b> | TRM | SC, DT     |  | termName =<br>GetTermDescriptorForEvent<br>(rowATT!SC, rowATT!DT)<br><br>GetSessionName(rowATT!<br>SchoolYear, termName) |
| \                | studentReference                      | StudentReference | Identity        |     |            |  |                                                                                                                          |
| studentReference | studentUniqueld                       | string           | <b>Identity</b> | ATT | SC, SN     |  | STU_Functions.<br>ConvertSCSNtoid(<br>rowATT!SC, rowATT!SN)                                                              |
| \                | attendanceEvent<br>CategoryDescriptor | Descriptor       | <b>Identity</b> | ATT | AL         |  | GetEdFiCodeValue(<br>AttendanceEvent<br>CategoryDescriptor, "ATT", "AL",<br>rowATT!AL)                                   |
| \                | educationalEnvironment<br>Descriptor  | Descriptor       | Optional        |     |            |  |                                                                                                                          |
| \                | attendanceEvent<br>Reason             | String           | <b>Required</b> | ATN | CO         |  | GetString(rowATT!AttDesc))                                                                                               |
| \                | eventDuration                         | number           | Optional        |     |            |  |                                                                                                                          |
| \                | arrivalTime                           | String           | Optional        |     |            |  |                                                                                                                          |
| \                | departureTime                         | String           | Optional        |     |            |  |                                                                                                                          |
| \                | schoolAttendanceDuration              | number           | Optional        |     |            |  |                                                                                                                          |

## Code

```

Public Shared Function GetCurrentYear(ByVal SC As Integer, ByVal
ConnectionString As String) As Integer

    Dim CurrentYear As Integer = 0

    Using drDAY As SqlDataReader =
        ConnectDB.GetDataReader("SELECT TOP 1 CASE WHEN SC = @SC THEN
'1' ELSE '2' END as [SORT], DT, DY
        FROM DAY WHERE DEL = 0 ORDER BY SORT, DY", ConnectionString,
New SqlParameter() {MakeParam("@SC", SqlDbType.Int, 0, SC)})

        If drDAY IsNot Nothing AndAlso drDAY.HasRows Then
            drDAY.Read()
            CurrentYear = Year(drDAY("DT"))
        End If
    End Using

    If CurrentYear = 0 Then
        CurrentYear = ConnectDB.GetSchoolYearFromConnection
(ConnectionString)
    End If

```

```
Return CurrentYear
```

```
End Function
```

```
Public Shared Function GetTermDescriptorForEvent(ByVal schoolcode As  
String, ByVal eventDate As String, ByVal connectionString As String) As  
String
```

```
    Dim termDescriptor As String = String.Empty
```

```
    Dim eventDateValue As Date
```

```
    If Date.TryParse(eventDate, eventDateValue) Then
```

```
        Dim term As String = TRM_Functions.GetTerm(schoolcode,  
eventDateValue, String.Empty, connectionString)
```

```
        termDescriptor = EdFiV2Functions.GetTermDescriptor  
(schoolcode, term, connectionString)
```

```
    End If
```

```
    Return termDescriptor
```

```
End Function
```

```
Public Shared Function GetTerm(ByVal SC As Integer, ByVal eventDate As  
Date, ByVal USR As String, ByVal ConnectionString As String) As String
```

```
    Dim ix1 As Integer = 1
```

```
    Dim rcdTRM As TRM_Record
```

```
    GetTerm = ""
```

```
    If Trimester(SC, ConnectionString) Then
```

```
        For ix1 = 1 To 4
```

```
            rcdTRM = New TRM_Record(USR, SC, ix1.ToString(),  
ConnectionString)
```

```
            If Not rcdTRM.NewRecord Then
```

```
                Dim endDateTrimester As Date
```

```
                If Date.TryParse(rcdTRM!D2,  
endDateTrimester) Then
```

```
                    If eventDate <=  
endDateTrimester Then
```

```
                        GetTerm = rcdTRM.TM  
                        GoTo CurrentTerm_exit
```

```
                    End If
```

```
                End If
```

```
            End If
```

```
        Next
```

```
    Else
```

```
        rcdTRM = New TRM_Record(USR, SC, "F", ConnectionString)
```

```
        If Not rcdTRM.NewRecord Then
```

```
            Dim endDateFall As Date
```

```

        If Date.TryParse(rcdTRM!D2, endDateFall) Then
            If eventDate <= endDateFall Then
                GetTerm = rcdTRM.TM
                GoTo CurrentTerm_exit
            End If
        End If
    End If
    rcdTRM = New TRM_Record(USR, SC, "S", ConnectionString)
    If Not rcdTRM.NewRecord Then
        Dim endDateSpring As Date
        If Date.TryParse(rcdTRM!D2, endDateSpring) Then
            If eventDate <= endDateSpring Then
                GetTerm = rcdTRM.TM
                GoTo CurrentTerm_exit
            End If
        End If
    End If
End If

rcdTRM = New TRM_Record(USR, SC, "Y", ConnectionString)
If Not rcdTRM.NewRecord Then
    GetTerm = rcdTRM.TM
    GoTo CurrentTerm_exit
End If

CurrentTerm_exit:
    rcdTRM = Nothing
    Exit Function

End Function

Public Shared Function GetTermDescriptor(ByVal SC As Integer, ByVal TM
As String, ByVal ConnectionString As String) As String

    Select Case TM
        Case "Y"           Return "Year Round"
        Case "S"           Return "Spring Semester"
        Case "F"           Return "Fall Semester"
    End Select

    If Trimester(SC, ConnectionString) Then
        Select Case TM
            Case "1"       Return "First Trimester"
            Case "2"       Return "Second Trimester"
            Case "3"       Return "Third Trimester"
        End Select
    Else
        Select Case TM
            Case "1"       Return "First Quarter"
            Case "2"       Return "Second Quarter"

```

```

                                Case "3"           Return "Third Quarter"
                                Case "4"           Return "Fourth Quarter"
                                End Select
                            End If
                        Return TM
                    End Function

```

## Ed-Fi 3.x Student School Combination Entity Mapping

### Overview

This document defines the mapping of Aeries data to the Ed-Fi data standard. This is an Aeries custom entity that behaves just like an Ed-Fi standard entity.



### Purpose

It's purpose is to make it easier for districts to upload Student entity and Student School Association entity data to the ODS. There are dependencies between them that allow Students to be uploaded initially, but when trying to upload them a second time an error is returned stating that an established relationship is missing. That's the Student School Association entity that is expected to exist in the ODS. Without that the student data is not accessible. So we handle the uploading of both at the same time to eliminate this confusion.

**Document Version 1.1**

**Last Updated 24 Oct 2021**

### Status

Ready for v3.x Certification.

### General Links

#### ED-FI Data Standard v3.2.0-c

<https://mappingedu.ed-fi.org/#!/data-standard/detail/7ec6133d-e7ba-ea11-80df-005056b36109/groups>

#### Ed-Fi Data Handbook v3.2.0-c

<https://schema.ed-fi.org/datahandbook-v320c>

#### Ed-Fi Operational Data Store API v3.4.0

<https://api.ed-fi.org/v3.4.0/docs/index.html>

#### Student Information Systems API v3 Certification - Test Scenarios

<https://techdocs.ed-fi.org/display/EDFICERT/Student+Information+Systems+API+v3+Certification+-+Test+Scenarios>

### Getting Resources

We are actually going to get 3 resources for each Student School Combination resource - School, Student, and Student School Association

1. Get the Student School Associations
2. Loop through all the results
3. For each resource get the school Code and Unique Student Id
4. **Add the Student School Association resource to the results list**
5. Get the School resource by the School Code
6. **Add the School resource info to the results list**
7. Get the Student resource by the Student Id
8. **Add the Student resource info to the results list**
9. Repeat for Student School Association resource in the list.

### Uploading Resources

We have special logic to only insert Student and Student School Association data to the database if everything is correct, so no data will get orphaned.

1. Get the **Student** data from the database that needs to be mapped and uploaded to the ODS
2. Get **Student Enrollment** data from the database
3. For each **Student** record
  - a. get a list of **Enrollment** records from the data
  - b. If enrollment records are found
    - i. Process the **Student** entity  
If an error occurs it may be that the **Student School Association** does not exist. Keep track of this flag.
    - ii. For each enrollment record process the **Student School Association** entity
    - iii. Then try uploading the **Student** Entity try again.

## Ed-Fi 3.x Student School Food Service Program Association Entity Mapping

### Overview

This document defines the mapping of Aeries data to the Ed-Fi data standard.



**Document Version** 1.1

**Last Updated** 24 Oct 2021

### Status

Updated for v3.x. Ready for Certification.

### Description

This association represents the school food services program(s), such as the Free or Reduced Lunch Program, that a student participates in or from which the Student receives services.

### Student School Food Service Program Association Links

#### Mapping v3.2.0-c

<https://mappingedu.ed-fi.org/#!/entity/c5076848-e7ba-ea11-80df-005056b36109/info?dataStandardId=7ec6133d-e7ba-ea11-80df-005056b36109>

#### Schema v3.2.0-c

<https://schema.ed-fi.org/datahandbook-v320c/#!/StudentSchoolFoodServiceProgramAssociation2803>

<https://schema.ed-fi.org/datahandbook-v320c/#!/GeneralStudentProgramAssociation3051>

#### API v3.4.0

<https://api.ed-fi.org/v3.4.0/docs/index.html#/studentSchoolFoodServiceProgramAssociations>

#### Scenarios v3

<https://techdocs.ed-fi.org/display/EDFICERT/v3+Student+Program+%3E+StudentSchoolFoodServicesProgramAssociation+Scenarios>

### Natural Key

- BeginDate
- EducationOrganizationId
- ProgramEducationOrganizationId
- ProgramName
- ProgramTypeDescriptor
- StudentUniquelId

### Used By

- StudentCompetencyObjectiveSectionOrProgramChoice.GeneralStudentProgramAssociation (as optional collection)
- StudentLearningObjectiveSectionOrProgramChoice.GeneralStudentProgramAssociation (as optional collection)

## Mappings

| Parent                           | Properties                                | Type       | Required | Table | Field | Other                                       | Code / Notes                                                                         |
|----------------------------------|-------------------------------------------|------------|----------|-------|-------|---------------------------------------------|--------------------------------------------------------------------------------------|
| \                                | beginDate                                 | Date       | Identity | FRE   | ESD   |                                             | GetNullableDate(s ("StartDate"))                                                     |
| \                                | educationOrganizationReference            | Class      | Required |       |       |                                             |                                                                                      |
| educationOrganizationReference   | educationOrganizationId                   | Integer    | Identity | STU   | SC    |                                             | GetNullableInteger (rowSTU!SC)                                                       |
| \                                | programReference                          | Class      | Required |       |       |                                             |                                                                                      |
| programReference                 | educationOrganizationId                   | Integer    | Identity |       |       | DistrictId                                  | OdsConfiguration. DistrictId                                                         |
| programReference                 | programName                               | String     | Identity |       |       | Hard Coded to "Student School Food Service" |                                                                                      |
| programReference                 | programTypeDescriptor                     | Descriptor | Identity |       |       | Hard Coded to "Student School Food Service" |                                                                                      |
| \                                | studentReference                          | Class      | Required |       |       |                                             |                                                                                      |
| studentReference                 | studentUniqueId                           | String     | Identity | STU   | ID    |                                             | GetString(s("ID"))                                                                   |
| \                                | directCertification                       | Boolean    | Optional |       |       |                                             |                                                                                      |
| \                                | endDate                                   | Date       | Optional | FRE   | EED   |                                             | GetNullableDate(s ("EndDate"))                                                       |
| \                                | schoolFoodServiceProgramServices          | Class      | Required |       |       |                                             |                                                                                      |
| schoolFoodServiceProgramServices | schoolFoodServiceProgramServiceDescriptor | Descriptor | Required | FRE   | CD    |                                             | GetEdFiCodeValue (SchoolFoodServiceProgramServiceDescriptor, "FRE", "CD", rowSTU!CD) |
| schoolFoodServiceProgramServices | primaryIndicator                          | Boolean    | Optional |       |       |                                             |                                                                                      |
| schoolFoodServiceProgramServices | serviceBeginDate                          | Date       | Optional |       |       |                                             |                                                                                      |
| schoolFoodServiceProgramServices | serviceEndDate                            | Date       | Optional |       |       |                                             |                                                                                      |
| \                                | participationStatus                       | Class      | Optional |       |       |                                             |                                                                                      |
| participationStatus              | participationStatusDescriptor             | Descriptor | Optional |       |       |                                             |                                                                                      |
| participationStatus              | designatedBy                              | String     | Optional |       |       |                                             |                                                                                      |
| participationStatus              | statusBeginDate                           | Date       | Optional |       |       |                                             |                                                                                      |
| participationStatus              | statusEndDate                             | Date       | Optional |       |       |                                             |                                                                                      |
| \                                | reasonExitedDescriptor                    | Descriptor | Optional |       |       |                                             |                                                                                      |
| \                                | servedOutsideOfRegularSession             | Boolean    | Optional |       |       |                                             |                                                                                      |

## Ed-Fi 3.x Student Section Association Entity Mapping

### Overview

This document defines the mapping of Aeries data to the Ed-Fi data standard.

### Status

Ready for v3 certification.

### Description

This association indicates the course sections to which a student is assigned.



**Document Version 1.0**

**Last Updated 07 Nov 2021**

## Student Section Association Links

### Mapping v3.2.0-c

<https://mappingedu.ed-fi.org/#!/entity/de076848-e7ba-ea11-80df-005056b36109/info?dataStandardId=7ec6133d-e7ba-ea11-80df-005056b36109>

### Schema v3.2.0-c

<https://schema.ed-fi.org/datahandbook-v320c/#!/StudentSectionAssociation614>

### API v3.4.0

<https://api.ed-fi.org/v3.4.0/docs/index.html#/studentSectionAssociations>

### Scenarios v3

<https://techdocs.ed-fi.org/display/EDFICERT/v3+Student+Enrollment+%3E+StudentSectionAssociation+Scenarios>

## Natural Key

- BeginDate
- LocalCourseCode
- SchoolId
- SchoolYear
- SectionIdentifier
- SessionName
- StudentUniqueld

## Used By

- StudentCompetencyObjectiveSectionOrProgramChoice.StudentSectionAssociation (as optional collection)
- StudentLearningObjectiveSectionOrProgramChoice.StudentSectionAssociation (as optional collection)
- Grade.StudentSectionAssociation (as required)
- StudentGradebookEntry.StudentSectionAssociation (as required)

## Mappings

| Parent           | Properties                          | Type             | Required           | Table                      | Field  | Other | Code / Notes                                                                                                                   |
|------------------|-------------------------------------|------------------|--------------------|----------------------------|--------|-------|--------------------------------------------------------------------------------------------------------------------------------|
| \                | beginDate                           | Date             | <b>Identity</b>    | CAR                        | DS     |       | GetNullableDate(s("DS"))                                                                                                       |
| \                | endDate                             | Date             | <b>Required</b>    | CAR                        | DE     |       | GetNullableDate(s("DE"))                                                                                                       |
| \                | homeroomIndicator                   | Boolean          | <b>Conditional</b> | LOC.A,<br>LOC.L,<br>CAR.PD |        |       | GetHomeRoomIndicator(A, J, PD)                                                                                                 |
| \                | repeatIdentifierDescriptor          | Descriptor       | Optional           |                            |        |       |                                                                                                                                |
| \                | sectionReference                    | SectionReference | Identity           |                            |        |       |                                                                                                                                |
| sectionReference | sessionName                         | String           | <b>Identity</b>    | MST                        | SM     |       | termName = GetTermName<br>(rowCAR!SC, rowCAR!SM,<br>DbConnectionString)<br><br>GetSessionName(rowCar!<br>SchoolYear, termName) |
| sectionReference | sectionIdentifier                   | String           | <b>Identity</b>    | CAR                        | SC, SE |       | GetUniqueSectionCode(<br>s("SC"), s("SE"))                                                                                     |
| sectionReference | localCourseCode                     | String           | <b>Identity</b>    | CAR                        | CN     |       | s("CN")                                                                                                                        |
| sectionReference | schoolId                            | Integer          | <b>Identity</b>    | CAR                        | SC     |       | GetNullableInteger(s("SC"))                                                                                                    |
| sectionReference | schoolYear                          | Integer          | <b>Identity</b>    | CAR                        | DS     |       | GetNullableInteger(s<br>("SchoolYear"))                                                                                        |
| \                | studentReference                    | StudentReference | Identity           |                            |        |       |                                                                                                                                |
| studentReference | studentUniqueld                     | String           | <b>Identity</b>    | STU                        | ID     |       | GetString(s("ID"))                                                                                                             |
| \                | teacherStudent<br>DataLinkExclusion | Boolean          | Optional           |                            |        |       |                                                                                                                                |
| \                | attemptStatusDescriptor             | String           | Optional           |                            |        |       |                                                                                                                                |

## Code

```
Public Shared Function GetHomeRoomIndicator(ByVal A As String, ByVal J
As String, ByVal PD As String) As Boolean?

    Return If(A = "1", Nothing, If(J = PD, True, False))

End Function

Public Shared Function GetSessionName(ByVal schoolYear As Integer,
ByVal term As String) As String

    Return schoolYear.ToString() & " " & term

End Function

Public Shared Function GetTermName(ByVal schoolcode As Integer, ByVal
termCode As String, ByVal ConnectionString As String) As String

    'Ref: https://mappedu.ed-fi.org/#/element/e778beed-1c80-ea11-
80df-005056b36109/details?dataStandardId=e8efbbaa-1b80-ea11-80df-
005056b36109

    Select Case termCode
        Case "Y"
            Return "Year Round"
        Case "S"
            Return "Spring Semester"
        Case "F"
            Return "Fall Semester"
    End Select

    If Trimester(schoolcode, ConnectionString) Then

        Select Case termCode
            Case "1"
                Return "First Trimester"
            Case "2"
                Return "Second Trimester"
            Case "3"
                Return "Third Trimester"
        End Select
    Else
        Select Case termCode
            Case "1"
                Return "First Quarter"
            Case "2"
                Return "Second Quarter"
            Case "3"
```

```

                Return "Third Quarter"
            Case "4"
                Return "Fourth Quarter"
            End Select
        End If

        Return termCode
    End Function

Public Shared Function GetUniqueSectionCode(ByVal school As String,
ByVal section As String) As String

    Return school & "-" & section

End Function

```

```

[
  {
    "id": "string",
    "beginDate": "2020-12-17",
    "sectionReference": {
      "localCourseCode": "string",
      "schoolId": 0,
      "schoolYear": 0,
      "sectionIdentifier": "string",
      "sessionName": "string",
      "link": {
        "rel": "string",
        "href": "string"
      }
    },
    "studentReference": {
      "studentUniqueId": "string",
      "link": {
        "rel": "string",
        "href": "string"
      }
    },
    "attemptStatusDescriptor": "string",
    "endDate": "2020-12-17",
    "homeroomIndicator": true,
    "repeatIdentifierDescriptor": "string",
    "teacherStudentDataLinkExclusion": true,

```

```

    "_etag": "string"
  }
]

```

## Ed-Fi 3.x Student Section Attendance Event Entity Mapping

### Overview

This document defines the mapping of Aeries data to the Ed-Fi data standard.



**Document Version 1.0**

**Last Updated 07 Nov 2021**

### Status

Ready for v3 certification.

### Description

This event entity represents the recording of whether a student is in attendance for a section.

### Student Section Attendance Event Links

#### Mapping v3.2.0-c

<https://mappingedu.ed-fi.org/#!/entity/f6076848-e7ba-ea11-80df-005056b36109/info?dataStandardId=7ec6133d-e7ba-ea11-80df-005056b36109>

#### Schema v3.2.0-c

<https://schema.ed-fi.org/datahandbook-v320c/#!/StudentSectionAttendanceEvent594>

#### API v3.4.0

<https://api.ed-fi.org/v3.4.0/docs/index.html#/studentSectionAttendanceEvents>

#### Scenarios v3

<https://techdocs.ed-fi.org/display/EDFICERT/v3+Student+Attendance+%3E+StudentSectionAttendanceEvent+Scenarios>

### Natural Key

- AttendanceEventCategoryDescriptor
- EventDate
- LocalCourseCode
- SchoolId
- SchoolYear
- SectionIdentifier
- SessionName
- StudentUniqueId

### Used By

None

### Mapping

| Parent | Property                          | Type       | Required        | Table                    | Field | Other | Code / Notes                                                                |
|--------|-----------------------------------|------------|-----------------|--------------------------|-------|-------|-----------------------------------------------------------------------------|
| \      | attendanceEventCategoryDescriptor | Descriptor | <b>Identity</b> | CAT                      | CD    |       | GetEdFiCodeValue(AttendanceEventCategoryDescriptor, "ATT", "AL", rowATT!CD) |
| \      | attendanceEventReason             | String     | <b>Required</b> | COD.<br>DE<br>ATN.<br>CO |       | NOTES | GetString(s("NOTES"))                                                       |

|                  |                                   |                  |          |     |    |                                         |                                                                                            |
|------------------|-----------------------------------|------------------|----------|-----|----|-----------------------------------------|--------------------------------------------------------------------------------------------|
| \                | educational EnvironmentDescriptor | Descriptor       | Optional |     |    |                                         |                                                                                            |
| \                | eventDate                         | Date             | Identity | ATT | DT |                                         | GetNullableDate(s("DT"))                                                                   |
| \                | eventDuration                     | String           | Optional |     |    |                                         |                                                                                            |
| \                | arrivalTime                       | Time             | Optional |     |    |                                         |                                                                                            |
| \                | departureTime                     | Time             | Optional |     |    |                                         |                                                                                            |
| \                | sectionReference                  | SectionReference | Required |     |    |                                         |                                                                                            |
| sectionReference | sectionIdentifier                 | String           | Identity |     |    |                                         | GetUniqueSectionCode(s("SC"), s("SE"))))                                                   |
| sectionReference | sessionName                       | String           | Identity |     |    |                                         | TermName =GetTermName(rowATT!SC, rowATT!SM)<br>GetSessionName(rowATT!SchoolYear, termName) |
| sectionReference | localCourseCode                   | String           | Identity | CAR | CN |                                         | GetString(s("CN"))                                                                         |
| sectionReference | schoolId                          | Integer          | Identity | CAR | SC |                                         | GetNullableInteger(s("SC"))                                                                |
| sectionReference | schoolYear                        | Integer          | Identity |     |    | Aeries<br>current<br>school<br>Year + 1 | GetNullableInteger(s("SCHOOLYEAR"))                                                        |
| \                | studentReference                  | StudentReference | Identity |     |    |                                         |                                                                                            |
| studentReference | studentUniqueld                   | String           | Identity | STU | ID |                                         | GetString(s("ID"))                                                                         |

## Code

```
Public Shared Function GetSessionName(ByVal schoolYear As Integer,
ByVal term As String) As String
```

```
    Return schoolYear.ToString() & " " & term
```

```
End Function
```

```
Public Shared Function GetTermName(ByVal schoolcode As Integer, ByVal
termCode As String, ByVal ConnectionString As String) As String
```

```
    'Ref: https://mappedu.ed-fi.org/#/element/e778beed-1c80-ea11-
80df-005056b36109/details?dataStandardId=e8efbbaa-1b80-ea11-80df-
005056b36109
```

```
    Select Case termCode
        Case "Y"
            Return "Year Round"
        Case "S"
            Return "Spring Semester"
        Case "F"
            Return "Fall Semester"
```

```
End Select
```

```
If Trimester(schoolcode, ConnectionString) Then
    Select Case termCode
        Case "1"
            Return "First Trimester"
        Case "2"
```

```

        Return "Second Trimester"
    Case "3"
        Return "Third Trimester"
    End Select
Else
    Select Case termCode
        Case "1"
            Return "First Quarter"
        Case "2"
            Return "Second Quarter"
        Case "3"
            Return "Third Quarter"
        Case "4"
            Return "Fourth Quarter"
    End Select
End If

Return termCode

End Function

Public Shared Function GetUniqueSectionCode(ByVal school As String,
ByVal section As String) As String

    Return school & "-" & section

End Function

```

```

[
{
  "id": "string",
  "attendanceEventCategoryDescriptor": "string",
  "eventDate": "2020-12-17",
  "sectionReference": {
    "localCourseCode": "string",
    "schoolId": 0,
    "schoolYear": 0,
    "sectionIdentifier": "string",
    "sessionName": "string",
    "link": {
      "rel": "string",
      "href": "string"
    }
  },
  "studentReference": {
    "studentUniqueId": "string",
    "link": {

```

```

        "rel": "string",
        "href": "string"
      }
    },
    "arrivalTime": "string",
    "attendanceEventReason": "string",
    "departureTime": "string",
    "educationalEnvironmentDescriptor": "string",
    "eventDuration": 0,
    "sectionAttendanceDuration": 0,
    "_etag": "string"
  }
]

```

## Ed-Fi 3.x Student Special Education Program Association Entity Mapping

### Overview

This document defines the mapping of Aeries data to the Ed-Fi data standard.



### Status

Ready for v3 certification

**Document Version** 1.0

**Last Updated** 06 Nov 2021

### Description

This association represents the special education program(s) that a student participates in or receives services from. The association is an extension of the StudentProgramAssociation particular for special education programs.

### Student Special Education Program Association Links

#### Mapping v3.2.0

<https://mappingedu.ed-fi.org/#!/entity/11086848-e7ba-ea11-80df-005056b36109/info?dataStandardId=7ec6133d-e7ba-ea11-80df-005056b36109>

#### Schema v3.2.0

<https://schema.ed-fi.org/datahandbook-v320c/#!/StudentSpecialEducationProgramAssociation615>

<https://schema.ed-fi.org/datahandbook-v320c/#!/GeneralStudentProgramAssociation3051>

#### API v3.4.0

<https://api.ed-fi.org/v3.4.0/docs/index.html#/studentSpecialEducationProgramAssociations>

#### Scenarios v3

<https://techdocs.ed-fi.org/display/EDFICERT/v3+StudentProgram+%3E+StudentSpecialEducationProgramAssociation+Scenarios>

### Natural Key

- BeginDate
- EducationOrganizationId
- ProgramEducationOrganizationId
- ProgramName
- ProgramTypeDescriptor
- StudentUniqueId

### Used By

- StudentCompetencyObjectiveSectionOrProgramChoice.GeneralStudentProgramAssociation (as optional collection)

- StudentLearningObjectiveSectionOrProgramChoice.GeneralStudentProgramAssociation (as optional collection)

## Entity Mapping

| Parent                          | Property                                 | Type                                                              | Required        | Table | Field | Other                            | Code / Notes                                                                                                           |
|---------------------------------|------------------------------------------|-------------------------------------------------------------------|-----------------|-------|-------|----------------------------------|------------------------------------------------------------------------------------------------------------------------|
| \                               | beginDate                                | Date                                                              | <b>Identity</b> | CSE   | ED    | StartDate                        | GetNullableDate(s("StartDate"))                                                                                        |
| \                               | educationOrganizationReference           | EducationOrganizationReference                                    | Required        |       |       |                                  |                                                                                                                        |
| educationOrganizationReference  | educationOrganizationId                  | Integer                                                           | <b>Identity</b> | CSE   | SC    | District ID                      | scl = GetNullableInteger(rowCSE!SC)<br>scl = If(scl, 0)<br><br>edOrgId = If(scl > 0, scl, OdsConfiguration.DistrictId) |
| \                               | endDate                                  | Date                                                              | Optional        | CSE   | XD    | EndDate                          | GetNullableDate(s("EndDate"))                                                                                          |
| \                               | ideaEligibility                          | Boolean                                                           | <b>Required</b> | CSE   | DI    |                                  | Not String.IsNullOrEmpty(WhiteSpace(rowCSE!DI))                                                                        |
| \                               | iepBeginDate                             | Date                                                              |                 |       |       |                                  |                                                                                                                        |
| \                               | iepEndDate                               | Date                                                              |                 |       |       |                                  |                                                                                                                        |
| \                               | iepReviewDate                            | Date                                                              |                 |       |       |                                  |                                                                                                                        |
| \                               | lastEvaluationDate                       | Date                                                              |                 |       |       |                                  |                                                                                                                        |
| \                               | medicallyFragile                         | Boolean                                                           |                 |       |       |                                  |                                                                                                                        |
| \                               | multiplyDisabled                         | Boolean                                                           |                 |       |       |                                  |                                                                                                                        |
| \                               | programReference                         | ProgramReference                                                  | Required        |       |       |                                  |                                                                                                                        |
| programReference                | educationOrganizationId                  | Integer                                                           | <b>Identity</b> | CSE   | SC    | District ID                      | scl = GetNullableInteger(rowCSE!SC)<br>scl = If(scl, 0)<br><br>edOrgId = If(scl > 0, scl, OdsConfiguration.DistrictId) |
| programReference                | programName                              | String                                                            | <b>Identity</b> |       |       | hard code to "Special Education" | GetString("Special Education"))                                                                                        |
| programReference                | programTypeDescriptor                    | Descriptor                                                        | <b>Identity</b> |       |       | hard code to "Special Education" | GetV3Descriptor("ProgramTypeDescriptor", "Special Education"))                                                         |
| \                               | reasonExitedDescriptor                   | Descriptor                                                        |                 |       |       |                                  |                                                                                                                        |
| \                               | schoolHoursPerWeek                       | Double                                                            |                 |       |       |                                  |                                                                                                                        |
| \                               | servedOutsideOfRegularSession            | Boolean                                                           |                 |       |       |                                  |                                                                                                                        |
| \                               | serviceProviders                         | List(Of StudentSpecialEducationProgramAssociationServiceProvider) |                 |       |       |                                  |                                                                                                                        |
| serviceProviders                | primaryProvider                          | Boolean                                                           |                 |       |       |                                  |                                                                                                                        |
| serviceProviders                | staffReference                           | StaffReference                                                    |                 |       |       |                                  |                                                                                                                        |
| serviceProviders                | staffUniqueId                            | String                                                            |                 |       |       |                                  |                                                                                                                        |
| \                               | specialEducationProgramServices          | List(Of StudentProgramAssociationService)                         |                 |       |       |                                  |                                                                                                                        |
| specialEducationProgramServices | primaryIndicator                         | Boolean                                                           |                 |       |       |                                  |                                                                                                                        |
| specialEducationProgramServices | serviceBeginDate                         | Date                                                              |                 |       |       |                                  |                                                                                                                        |
| specialEducationProgramServices | specialEducationProgramServiceDescriptor | Descriptor                                                        |                 |       |       |                                  |                                                                                                                        |
| specialEducationProgramServices | serviceEndDate                           | Date                                                              |                 |       |       |                                  |                                                                                                                        |
| \                               | specialEducationHoursPerWeek             | Double                                                            |                 |       |       |                                  |                                                                                                                        |
| \                               | specialEducationSettingDescriptor        | Descriptor                                                        | <b>Required</b> | CSE   | IRC   |                                  |                                                                                                                        |

|                     |                                              |                               |          |     |    |  |                                                                                |
|---------------------|----------------------------------------------|-------------------------------|----------|-----|----|--|--------------------------------------------------------------------------------|
|                     |                                              |                               |          |     |    |  | GetEdFiCodeValue(SpecialEducationSettingDescriptor, "CSE", "IRC", rowCSE! IRC) |
|                     | studentReference                             | StudentReference              | Required |     |    |  |                                                                                |
| studentReference    | studentUniqueld                              | String                        | Identity | CSE | ID |  | GetString(s("ID"))                                                             |
| \                   | participationStatus                          | List (Of participationStatus) | Optional |     |    |  |                                                                                |
| participationStatus | participationStatusDescriptor                | Descriptor                    | Optional |     |    |  |                                                                                |
| participationStatus | designatedBy                                 | String                        | Optional |     |    |  |                                                                                |
| participationStatus | statusBeginDate                              | Date                          | Optional |     |    |  |                                                                                |
| participationStatus | statusEndDate                                | Date                          | Optional |     |    |  |                                                                                |
| \                   | disabilities                                 | List (Of disabilities)        | Optional |     |    |  |                                                                                |
| disabilities        | disabilityDescriptor                         | Descriptor                    | Optional |     |    |  |                                                                                |
| disabilities        | disabilityDeterminationSourceTypesDescriptor | Descriptor                    | Optional |     |    |  |                                                                                |
| disabilities        | disabilityDiagnosis                          | String                        | Optional |     |    |  |                                                                                |
| disabilities        | orderOfDisability                            | Integer                       | Optional |     |    |  |                                                                                |
| disabilities        | designations                                 | Integer                       | Optional |     |    |  |                                                                                |

```
[
  {
    "id": "string",
    "beginDate": "2020-12-18",
    "educationOrganizationReference": {
      "educationOrganizationId": 0,
      "link": {
        "rel": "string",
        "href": "string"
      }
    },
    "programReference": {
      "educationOrganizationId": 0,
      "programName": "string",
      "programTypeDescriptor": "string",
      "link": {
        "rel": "string",
        "href": "string"
      }
    },
    "studentReference": {
      "studentUniqueId": "string",
      "link": {
        "rel": "string",
        "href": "string"
      }
    },
    "disabilities": [
      {
        "disabilityDescriptor": "string",
```

```
    "disabilityDeterminationSourceTypeDescriptor": "string",
    "disabilityDiagnosis": "string",
    "orderOfDisability": 0,
    "designations": [
      {
        "disabilityDesignationDescriptor": "string"
      }
    ]
  },
  ],
  "endDate": "2020-12-18",
  "ideaEligibility": true,
  "iepBeginDate": "2020-12-18",
  "iepEndDate": "2020-12-18",
  "iepReviewDate": "2020-12-18",
  "lastEvaluationDate": "2020-12-18",
  "medicallyFragile": true,
  "multiplyDisabled": true,
  "participationStatus": {
    "participationStatusDescriptor": "string",
    "designatedBy": "string",
    "statusBeginDate": "2020-12-18",
    "statusEndDate": "2020-12-18"
  },
  "reasonExitedDescriptor": "string",
  "schoolHoursPerWeek": 0,
  "servedOutsideOfRegularSession": true,
  "serviceProviders": [
    {
      "primaryProvider": true,
      "staffReference": {
        "staffUniqueId": "string",
        "link": {
          "rel": "string",
          "href": "string"
        }
      }
    }
  ]
},
  ],
  "specialEducationHoursPerWeek": 0,
  "specialEducationProgramServices": [
    {
      "specialEducationProgramServiceDescriptor": "string",
      "primaryIndicator": true,
      "serviceBeginDate": "2020-12-18",
      "serviceEndDate": "2020-12-18",
      "providers": [
        {
          "primaryProvider": true,
          "staffReference": {
```

```

        "staffUniqueId": "string",
        "link": {
            "rel": "string",
            "href": "string"
        }
    }
]
},
"specialEducationSettingDescriptor": "string",
"_etag": "string"
}
]

```

## Ed-Fi 3.x Student Title I Part A Program Association Entity Mapping

### Overview

This document defines the mapping of Aeries data to the Ed-Fi data standard.



**Document Version** 1.0

**Last Updated** 06 Nov 2021

### About

This association represents the Title I Part A program(s) that a student participates in or from which the Student receives services.

The association is an extension of the Student Program Association particular for Title I Part A programs.

### Status

Ready for v3.x certification

### Description

This association represents the Title I Part A program(s) that a student participates in or from which the Student receives services. The association is an extension of the StudentProgramAssociation particular for Title I Part A programs.

### Student Title I Part A Program Association Links

#### Mapping v3.2.0-c

<https://mappingedu.ed-fi.org/#!/entity/3f086848-e7ba-ea11-80df-005056b36109/info?dataStandardId=7ec6133d-e7ba-ea11-80df-005056b36109>

#### Schema v3.2.0-c

<https://schema.ed-fi.org/datahandbook-v320c/#!/StudentTitleIPartAProgramAssociation616>

<https://schema.ed-fi.org/datahandbook-v320c/#!/GeneralStudentProgramAssociation3051>

#### API v3.4.0

<https://api.ed-fi.org/v3.4.0/docs/index.html#/studentTitleIPartAProgramAssociations>

#### Scenarios v3

<https://techdocs.ed-fi.org/display/EDFICERT/v3+Student+Program+%3E+StudentTitleIPartAProgramAssociation+Scenarios>

### Natural Key

- BeginDate

- EducationOrganizationId
- ProgramEducationOrganizationId
- ProgramName
- ProgramTypeDescriptor
- StudentUniqueld

## Used By

- StudentCompetencyObjectiveSectionOrProgramChoice.GeneralStudentProgramAssociation (as optional collection)
- StudentLearningObjectiveSectionOrProgramChoice.GeneralStudentProgramAssociation (as optional collection)

## Entity Mapping

| Parent                                       | Property                                     | Type                                                   | Required        | Table | Field      | Other                        | Code / Notes                                                           |
|----------------------------------------------|----------------------------------------------|--------------------------------------------------------|-----------------|-------|------------|------------------------------|------------------------------------------------------------------------|
| \                                            | beginDate                                    | Date                                                   | <b>Identity</b> | PGM   | PSD or ESD | StartDate                    | GetNullableDate(s("StartDate"))                                        |
| \                                            | educationOrganizationReference               | EducationOrganizationReference                         | Required        |       |            |                              |                                                                        |
| educationOrganizationReference               | educationOrganizationId                      | Integer                                                | <b>Identity</b> | PGM   | SCL        | District ID                  | scl = GetNullableInteger(rowPGM!SCL)<br>If(scl > 0, scl, DistrictId)   |
| \                                            | endDate                                      | Date                                                   | Optional        | PGM   | PSD or PED | EndDate                      | GetNullableDate(s("EndDate"))                                          |
| \                                            | programReference                             | ProgramReference                                       | Required        |       |            |                              |                                                                        |
| programReference                             | educationOrganizationId                      | Integer                                                | <b>Identity</b> | PGM   | SCL        | District Id                  | scl = GetNullableInteger(rowPGM!SCL)<br>If(scl > 0, scl, DistrictId)   |
| programReference                             | programName                                  | String                                                 | <b>Identity</b> |       |            | Hardcode to 'Title I Part A' | 'Title I Part A'                                                       |
| programReference                             | programTypeDescriptor                        | Descriptor                                             | <b>Identity</b> |       |            | Hardcode to 'Title I Part A' | GetV3Descriptor("ProgramTypeDescriptor", "Title I Part A")             |
| \                                            | reasonExitedDescriptor                       | Descriptor                                             | Optional        |       |            |                              |                                                                        |
| \                                            | servedOutsideOfRegularSession                | Boolean                                                | Optional        |       |            |                              |                                                                        |
| \                                            | services                                     | List(Of StudentProgramAssociationService)              | Optional        |       |            |                              |                                                                        |
| services                                     | primaryIndicator                             | Boolean                                                | Optional        |       |            |                              |                                                                        |
| services                                     | serviceBeginDate                             | Date                                                   | Optional        |       |            |                              |                                                                        |
| services                                     | serviceDescriptor                            | <a href="#">ServiceDescriptor</a>                      | Optional        |       |            |                              |                                                                        |
| services                                     | serviceEndDate                               | Date                                                   | Optional        |       |            |                              |                                                                        |
| \                                            | studentReference                             | StudentReference                                       | Required        |       |            |                              |                                                                        |
| studentReference                             | studentUniqueld                              | String                                                 | <b>Identity</b> | PGM   | PID        |                              | GetString(s("PID"))                                                    |
| \                                            | titleIPartAParticipantDescriptor             | Descriptor                                             | <b>Required</b> | PGM   | CD         |                              | GetEdFiCodeValue(TitleIPartAParticipantType, "PGM", "CD.2", rowPGM!CD) |
|                                              | participationStatus                          | List (Of participationStatus)                          | Optional        |       |            |                              |                                                                        |
| participationStatus[]                        | participationStatusDescriptor                | Descriptor                                             | Optional        |       |            |                              |                                                                        |
| participationStatus[]                        | designatedBy                                 | String                                                 | Optional        |       |            |                              |                                                                        |
| participationStatus[]                        | statusBeginDate                              | Date                                                   | Optional        |       |            |                              |                                                                        |
| participationStatus[]                        | statusEndDate                                | Date                                                   | Optional        |       |            |                              |                                                                        |
| \                                            | studentTitleIPartAProgramAssociationServices | List (Of studentTitleIPartAProgramAssociationServices) | Optional        |       |            |                              |                                                                        |
| studentTitleIPartAProgramAssociationServices | primaryIndicator                             | Boolean                                                | Optional        |       |            |                              |                                                                        |
|                                              | serviceDescriptor                            | Descriptor                                             | Optional        |       |            |                              |                                                                        |



## Code

TBD

```
[
  {
    "id": "string",
    "weekIdentifier": "string",
    "schoolReference": {
      "schoolId": 0,
      "link": {
        "rel": "string",
        "href": "string"
      }
    },
    "beginDate": "2020-12-17",
    "endDate": "2020-12-17",
    "totalInstructionalDays": 0,
    "_etag": "string"
  }
]
```