

2020-2021 Sandbox Certification Scenarios (Ed-Fi 3.1)

Minnesota Department of Education & Minnesota IT Services Automated Student Data Collection System

Revision date: 04/22/2020

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**Change Log:**

|  |  |  |
| --- | --- | --- |
| **Version** | **Date** | **Description of Changes** |
| v1.0 | 4/22/2020 | Initial |

## School Year 20-21 Collection Updates Summary

School Year 20-21 will continue collection of MARSS and Ancestry of Ethnic Origin data via Ed-Fi. In addition, MDE will begin collecting Early Education Enrollment along with Early Education Parent data.

* EE Enrollment includes:
  + StudentSchoolAssociation
  + StudentEducationOrganizationAssociation
  + StudentEarlyEducationProgramAssociation
* EE Parent includes:
  + Parent
  + StudentParentAssociation

**IMPORTANT NOTE:** The API for MDE’s MCCC, GRR, and MCA/MTAS Assessments has been developed and made available in the 3.1 codebase and in the School Year 20-21 sandbox environment, however integration with the endpoints encompassed in these domains will not be rolled out to districts until 2021-2022.

The inclusion of these API resources at this early stage is intended to assist vendors with review the work required to integrate your application with these collections and begin planning your development effort. With this early release we hope that you will have the ability to plan for the size of this project and plan accordingly.

Ed-Fi MCCC will start with the 2021-22 data collection based on the current schedule. Additional details coming soon include a mapping of the current data collection to the Ed-Fi standard and details on validations added to EDVP that had been previously done via XML. Timelines for GRR and Assessments via Ed-Fi are to be determined.

## Education Organization Id usage by Resource

Education Organization References in the Ed-Fi API allow an API client to submit either a Local Education Agency,School Id, PostSecondaryInstitutionId however the MDE implementation requires that the following ids must be used for Education Organization References.

| **Resource** | **Element** | **ID** |
| --- | --- | --- |
| StudentEducationOrganizationAssociation | educationOrganizationReference.educationOrganizationId | School Id |
| StudentProgramAssociation (all program types) | educationOrganizationReference. educationOrganizationId | School Id |
| StudentProgramAssociation (all program types) | programReference.educationOrganizationId | Local Education Agency Id |

## 2020-2021 SIS Submitted MDE Ed-Fi API Resources – MARSS Data Collection

### Resource: Students

**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.

**Prerequisite Data**

* None

**Certification Scenarios**

1. Create 14 student records including the following elements.
   1. studentUniqueID
   2. birthdate
   3. birthSexDescriptor
   4. firstName
   5. generationCodeSuffix
   6. lastSurname
   7. middleName

### Resource: StudentSchoolAssociations

**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.

**Prerequisite Data**

* Students
* Schools

**Certification Scenarios**

1. Enroll student 1 at Elementary School, including
   1. homeboundServiceIndicator
   2. specialPupilIndicator
2. Enroll student 2 at Middle School.
3. Withdraw student from Middle School.
4. Enroll student 2 at High School.
5. Create the following records for Student 2
   1. An enrollment
   2. Withdrawal
   3. Re-enrollment of a student who changes resident districts but does not change schools. Place a 20 day gap between records.
6. Update Student 1’s Percent Enrolled to 50% and set membershipAttendanceUnitDescriptor to days, set membership and attendance.
7. Update Student **1’s Percent Enrolled to 100%** membershipAttendanceUnitDescriptor to hours and adjust membership and attendance accordingly.
8. Update Student 2’s Transportation Category.
9. Update Student 3’s StateAid Category.
10. Create 2 enrollment records (a, b) for a student that is in two different schools within the same district at the same time. Enrollment dates 09/10/17 through 06/10/18.
11. Create the records for
    1. An enrollment,
    2. Withdrawal and
    3. Re-enrollment for a kindergarten student who receives an IEP mid-year – send updated special education evaluation status. (Grade change from KA to HK, and specialEducationEvaluationStatus updated)

### Resource: StudentEducationOrganizationAssociation

**Description**

This association indicates any relationship between a student and an education organization other than how the state views enrollment. Enrollment relationship semantics are covered by StudentSchoolAssociation.

MDE allows for the capture of student demographic data by school enrollment. Therefore, a StudentEducationOrganizationAssociation record must be submitted for each **school** in which the student is enrolled to provide the student demographic data provided to the enrolling school by the parent(s).

**Prerequisite Data**

* Students
* EducationOrganizations (Schools)

**Scenarios**

1. Create a StudentEducationOrganizationAssociation between Student 1 and an Elementary School, Include the following data points:
   1. EthnicCode by sending a StudentCharacteristic = ‘American Indian - Alaskan Native (Minnesota)’
   2. Race = ‘American Indian - Alaska Native’
   3. Birthdate
   4. sexDescriptor
   5. firstName, middleName, lastName, generationCodeSuffix
   6. hispanicLatinoEthnicity
   7. languageDescriptor
   8. languageUseDescriptor = ‘Home Language’
   9. studentIdentificationCodes
   10. studentIdentificationSystemDescriptor = ‘Local’
   11. assigningOrganizationIdentificationCode = ‘District Id’
   12. identificationCode = local use code
2. Update Student 1’s record to include Ancestry of Ethnic Origin = ai-cherokee
3. Update Student 1’s record to include a second Ancestry of Ethnic Origin = as-burmese
4. Create a StudentEducationOrganizationAssociation between Student 2 and Middle School.
5. Create a StudentEducationOrganizationAssociation between Student 2 and High School.
6. Update Student 3’s OptOutIndicator

### Resource: Calendar

**Description**

Ed-Fi Description: A set of dates associated with an organization. MDE is not using the Calendar entity as collection of dates, rather MDE captures the following key pieces of Calendar Metadata in the Calendar file: Instructional Days, Length of Day, and Kindergarten Schedule (when applicable). Calendar is captured at the School Level by grade.

**Prerequisite Data**

* Schools (published to ODS by MDE)

**Changes from 19-20 to 20-21**

New properties:

* DaysInSession
* Description
* New CalendarTypeDescriptor for MCCC

**Scenarios**

**MARSS**

1. Create calendar record for Elementary School grades 1 through 5 (do not include kindergarten as grade level)
   1. Length of day = 360
   2. Instructional Days = 167
2. Update calendar created in scenario one by reducing the Instructional Days from 167 to 166
3. Create calendar record for Elementary School for Kindergarten only - use grade KG
   1. Length of day = 360
   2. Instructional Days = 165
4. Create Full Year School Readiness Plus calendar for Elementary School grade RA
   1. Length of day = 150
   2. Instructional Days = 148
5. Create Half Year School Readiness Plus calendar for Elementary School grade RB
   1. Length of day = 150
   2. Instructional Days = 78
6. Create Middle School Calendar
7. Create High School Calendar

### Resource: Programs

**Program Records for each of the following program types will be loaded for each district by MDE**

The educationOrganizationReference for the StudentProgramAssociation is the **SchoolId**.

The educationOrganizationReference on the StudentProgramAssociation’s programReference is the **LocalEducationAgencyId**.

## StudentProgramAssociations

### Resource: Student21stCenturyLearningCenterGrantProgramAssociation

**Description**

This association represents Students in the 21st Century Community Learning Centers Grant Program.

**Prerequisite Data**

* Schools
* Program - where ProgramTypeDescriptor = “21st Century Learning Center Grant”
* Students

**Scenarios**

* Associate Student 1 with this StudentProgramAssociation

### Resource: StudentCEISProgramAssociation

**Description**

This association represents Students in the Coordinated Early Intervening Service Program.

**Prerequisite Data**

* Schools
* Program - where ProgramTypeDescriptor = “Coordinated Early Intervening Services”
* Students

**Scenarios**

* Associate Student 2 with this StudentProgramAssociation
* Delete this Student Program Association
* Delete Student 2’s Middle School StudentEducationOrganizationAssociation record.
* Delete student 2’s Middle School enrollment record.

### Resource: StudentEarlyChildhoodScreeningProgramAssociations

**Description**

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

**Prerequisite Data**

* Schools
* Program - where ProgramTypeDescriptor = “Early Childhood Screening”
* Students

**Scenarios**

1. Associate Student 3 with this StudentProgramAssociation
2. Change the earlyChildhoodScreenerDescriptor to ‘Head Start’ and earlyChildhoodScreeningExitStatusDescriptor to ‘Rescreen’

### Resource: StudentGiftedTalentedProgramAssociation

**Description**

This association represents Students in the Gifted Talented Program.

**Prerequisite Data**

* Schools
* Program - where ProgramTypeDescriptor = “Gifted and Talented”
* Students

**Scenarios**

1. Associate Student 4 with this StudentProgramAssociation
2. Change the gifted talented participation code to ‘Full-time services’

### Resource: StudentADSISProgramAssociation

**Description**

This association represents Students in the Alternative Delivery of Specialized Instruction (ADSIS) Program.

**Prerequisite Data**

* Schools
* Program - where ProgramTypeDescriptor = “Alternative Delivery Of SIS”
* Students

**Scenarios**

1. Associate Student 5 with this StudentProgramAssociation

### Resource: StudentHomelessProgramAssociation

**Description**

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

**Prerequisite Data**

* Schools
* Program - where ProgramTypeDescriptor = “Homeless”
* Students

**Scenarios**

1. Associate Student 6 with this StudentProgramAssociation
2. Change the primary nighttime residence code to ‘Doubled-Up’ and Unaccompanied Youth to True
3. Submit a StudentHomelessProgramAssociation for the EE enrolled student
   1. Primary Nighttime Residence = SHR
   2. Begin Date 9/5/2019
   3. End Date 12/25/2020

### Resource: StudentLanguageInstructionProgramAssociation

**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.

**Prerequisite Data**

* Schools
* Program - where ProgramTypeDescriptor = “English Learner”
* Students

**Scenarios**

1. Associate Student 7 with this StudentProgramAssociation where English Learner Participation is set to True (Indicates EL Served)
2. Change the English Learner Participation to False, to Indicate EL Identified, but not served
3. Associate another student with this program and set the language service code to ‘Newcomer Program’

### Resource: StudentPSEOConcurrentProgramAssociation

**Description**

This association represents Students in the PSEO Concurrent Enrollment Program.

**Prerequisite Data**

* Schools
* Program - where ProgramTypeDescriptor = “PSEO Concurrent”
* Students

**Scenarios**

1. Associate Student 8 with this StudentProgramAssociation

### Resource: StudentPSEOProgramAssociation

**Description**

This association represents Students in the PSEO Program.

**Prerequisite Data**

* Schools
* Program - where ProgramTypeDescriptor = “PSEO Program”
* Students

**Scenarios**

1. Update PSEO High School Hours to 650
2. Associate Student 9 with this StudentProgramAssociation

### Resource: StudentSAAPProgramAssociation

**Description**

This association represents Students in a State Approved Alternative Program.

**Prerequisite Data**

* Schools
* Program - where ProgramTypeDescriptor = “SAAP”
* Students

**Scenarios**

1. Associate Student 10 with this StudentProgramAssociation
2. Change SAAP Credits to 5.75 and Set Independent Study indicator to True and SAAP concurrent indicator to Yes

### Resource: StudentSchoolFoodServiceProgramAssociation

**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.

Note: in School Year 18-19 schoolFoodServicesEligibility was tracked as a separate field under StudentSchoolAssociation. This element is now tracked using SchoolFoodServiceProgramService on studentSchoolFoodServicesProgramAssociation.

**Prerequisite Data**

* Schools
* Program - where ProgramTypeDescriptor = “School Food Service”
* Students

**Scenarios**

1. Associate Student 11 with this StudentProgramAssociation with SchoolFoodServiceProgramService = 2
2. Change FRP Meal Code to 1

### Resource: StudentSection504PlanProgramAssociation

**Description**

Students who have a Section 504 plan.

**Prerequisite Data**

* Schools
* Program - where ProgramTypeDescriptor = “Section 504 Plan”
* Students

**Scenarios**

1. Associate Student 12 with this StudentProgramAssociation

### Resource: StudentSpecialEducationProgramAssociation

**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.

**Important Notes on Order of Disability**

MDE collects the primary disability code for a student during an enrollment period.

* Disability codes must be reported to Ed-Fi with the 'order of disability' as 1 to designate the primary disability.
* Although additional disability codes for a student might be reported for a particular begin date, they will be ignored by MDE and not collected or stored in the MDE transformations. In other words, only the disability code with ‘order of disability’ 1 will be used for any begin date.
* If multiple disability codes for a student are reported with the same begin date, there must only be one with an order of disability = 1.

**Prerequisite Data**

* Schools
* Program - where ProgramTypeDescriptor = “Special Education”
* Students

**Scenarios**

1. Associate Student 13 with this StudentProgramAssociation include a disability with order of priority = 1
2. Change disability code to 12, set special education service hours to 1100.5

### Resource: StudentTitleIPartAProgramAssociations

**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.

**Prerequisite Data**

* Schools
* Program - where ProgramTypeDescriptor = “Title I Part A”
* Students

**Scenarios**

1. Associate Student 14 with this StudentProgramAssociation

## 2020-2021 Early Education Enrollment Certification Scenarios - API Resources

### Resource: StudentSchoolAssociations

**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.

**Prerequisite Data**

* Students
* Schools

**Certification Scenarios**

1. Submit an Early Education Enrollment record (StudentSchoolAssociation with entrygradelevel = EE)
   1. Required elements
      1. School Id
      2. Student Unique Id
      3. Entry Grade Level = EE
      4. Entry Type (Last Location Code) = 0
      5. Entry Date = 9/5/2020
      6. Exit Withdraw Date (Defaulted to end of school year)
      7. Exit Withdraw Type = 20
      8. Homebound Service Indicator = N
      9. Resident Local Education Agency
      10. Special Pupil Indicator = N
   2. Data **not** collected for Early Education
      1. State Aid Category
      2. Membership Attendance Units
      3. Membership Attendance Percent Enrolled
      4. Special Education Eval Status
      5. Transportation
2. Submit an Early Education Enrollment record (StudentSchoolAssociation with entrygradelevel = 1)
   1. School Id
   2. Student Unique Id
   3. Entry Grade Level = 1
   4. Entry Type (Last Location Code) = 4
   5. Entry Date = 9/6/2020
   6. Exit Withdraw Date (Defaulted to end of school year)
   7. Exit Withdraw Type = 40
   8. Homebound Service Indicator = N
   9. Resident Local Education Agency
   10. Special Pupil Indicator = N
3. Submit an Early Education Enrollment record (StudentSchoolAssociation with entrygradelevel = PA)
   1. School Id
   2. Student Unique Id
   3. Entry Grade Level = PA
   4. Entry Type (Last Location Code) = 4
   5. Entry Date = 9/6/2020
   6. Exit Withdraw Date (Defaulted to end of school year)
   7. Exit Withdraw Type = 40
   8. Homebound Service Indicator = N
   9. Resident Local Education Agency
   10. Special Pupil Indicator = N

### Resource: Parent

**Description**

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

**Prerequisite Data**

None

**Scenarios**

1. Submit Parent Records for the following Early Ed Student in Gradelevel EE
   1. Required Elements:
      1. Parent Unique Id
      2. firstName
      3. lastSurname
      4. MiddleName
      5. generationCodeSuffix
      6. highestCompletedLevelOfEducationDescriptor
      7. householdIncome
      8. householdSize
      9. receivingInterpreterAssistance
      10. classroomVolunteerDescriptor
      11. birthDate
      12. sexDescriptor
   2. Submit Parent Records for the following Early Ed Student in Gradelevel 1
   3. Submit Parent Records for the following Early Ed Student in Gradelevel PA

### Resource: StudentParentAssociation

**Description**

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

**Prerequisite Data**

Students

Parents

StudentSchoolAssociations

**Scenarios**

1. Submit Student Parent Association Record for the Early Education Student in Gradelevel EE
2. Required Elements:
   * 1. Parent Unique Id
     2. Student Unique Id
     3. Relation Descriptor
3. Submit Student Parent Association Record for the Early Education Student in Gradelevel 1
4. Submit Student Parent Association Record for the Early Education Student in Gradelevel PA

### Resource: StudentEducationOrganizationAssociation

**Description**

This association indicates any relationship between a student and an education organization other than how the state views enrollment. Enrollment relationship semantics are covered by StudentSchoolAssociation.

MDE allows for the capture of student demographic data by school enrollment. Therefore, a StudentEducationOrganizationAssociation record must be submitted for each **school** in which the student is enrolled to provide the student demographic data provided to the enrolling school by the parent(s).

**Prerequisite Data**

* Students
* EducationOrganizations (Schools)

**Scenarios**

1. Create a StudentEducationOrganizationAssociation for the Student Enrolled in Gradelevel EE
   1. Include all elements except StudentCharacteristicsDescriptors (ADP, RAEL, IMMIGRANT, SLIFE)
2. Create a StudentEducationOrganizationAssociation for the Student Enrolled in Gradelevel 1
3. Create a StudentEducationOrganizationAssociation for the Student Enrolled in Gradelevel PA

### Resource: StudentEarlyEducationProgramAssociations

**Description**

This association represents Students in either School Readiness or Early Childhood Family Education programs.

**Prerequisite Data**

* Schools
* Program - where ProgramTypeDescriptor = “SR”
* Program - where ProgramTypeDescriptor = “ECFE”
* Students

**Scenarios**

1. Associate gradelevel EE Enrolled Student with this SR StudentEarlyEducationProgramAssociation
   1. Begin Date: 9/5/2020
   2. End Date: 6/11/2021 (default to last day in the school year)
   3. End Reason Code = PE-01
   4. Membership: 640
   5. Attendance: 580
   6. Submit funding sources PF and CC
2. Associate same gradelevel EE Enrolled Student with this ECFE StudentEarlyEducationProgramAssociation
   1. Begin Date = 9/5/2020
   2. End Date = 10/15/2020
   3. End Reason Code = PE-02
   4. Membership Hours = 40
   5. Attendance Hours = 30
   6. Submit funding sources PF, CC and TITLE
3. Associate gradelevel 1 Enrolled Student with an ECFE StudentEarlyEducationProgramAssociation
   1. Begin Date: 10/6/2020
   2. End Date: 6/11/2020 (default to last day in the school year)
   3. Membership: 640
   4. Attendance: 580
   5. Submit funding sources ECFE and CC
4. Associate gradelevel PA Enrolled Student with an SR StudentEarlyEducationProgramAssociation
   1. Begin Date: 9/7/2020
   2. End Date: 6/11/2020 (default to last day in the school year)
   3. Membership: 640
   4. Attendance: 580
   5. Submit funding sources CSPF and OD

### Resource: StudentHomelessProgramAssociation

**Description**

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

**Prerequisite Data**

* Schools
* Program - where ProgramTypeDescriptor = “Homeless”
* Students

**Scenarios**

1. Submit a StudentHomelessProgramAssociation for the EE enrolled student
   1. Primary Nighttime Residence = SHR
   2. Begin Date = 9/5/2019
   3. End Date = 12/25/2020

### Resource: StudentLanguageInstructionProgramAssociation

**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.

**Prerequisite Data**

* Schools
* Program - where ProgramTypeDescriptor = “English Learner”
* Students

**Scenarios**

1. Submit StudentLanguageInstructionProgramAssociation for EE enrolled Student
   1. Begin Date = 9/5/2019
   2. End Date = 5/25/2021
   3. Lang Service Code = Transitional Bilingual
   4. EL Participation = 1