

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