

# UDM Dates Analysis Summary

Updated 7/1/2016



# Recommended UDM Date Additions

A summary of the recommended changes to the Ed-Fi UDM is included on the following set of slides.

The recommendations are based on the evaluation of the Ed-Fi UDM using the [Guiding Principles](#) outlined by the Ed-Fi Alliance, with consideration given to real world use cases and experience with implementing the Ed-Fi solution.

The worksheet is a filtered view of all Domain Aggregates where UDM additions are recommended. The full Domain Aggregate is displayed for full context.

Please review these items and share any insight into additional use cases that might provide justification for the addition of these dates. Alternatively, we want to know if you see no real benefit, or any particular challenge with the inclusion of the proposed date fields.

In some cases we have made a recommendation on whether a field should be required or optional. We welcome your input here as well.

# Guiding Principles

## Guiding Principles of UDM History

The recommendations in this document are based on an evaluation of the Ed-Fi UDM using real world use cases and experience with implementing the Ed-Fi solution in addition to the following Guiding Principles outlined by the Ed-Fi Alliance:

The entity or field is mutable in the real-world: subject to and even likely to change over time, based on "real-world" events

The date has business processes associated with it that indicate its value to SEA or LEAs

The date has regulatory or compliance significance.

The date is defined in other standards or vocabularies (like CEDS)

The date(s) are captured in current technology systems, particularly in SIS systems given the current Ed-Fi ecosystem

Multiple stakeholders can as a result of common business practices request the date

Reflects attempts to segment users (students, staff, etc.) into sub-populations of interest to stakeholders

## Summary - Recommended Additions (1 of 2)

Domain Aggregate	Recommended Additions
<a href="#">Students</a>	Track BeginDate and EndDate for a number of elements or collections. ( <a href="https://tracker.ed-fi.org/browse/DATASTD-960">https://tracker.ed-fi.org/browse/DATASTD-960</a> )
<a href="#">Staffs</a>	Track BeginDate and EndDate for a number of elements or collections. ( <a href="https://tracker.ed-fi.org/browse/DATASTD-961">https://tracker.ed-fi.org/browse/DATASTD-961</a> )
<a href="#">Courses</a>	Track BeginDate (optional) and EndDate (optional) at the entity level. ( <a href="https://tracker.ed-fi.org/browse/DATASTD-962">https://tracker.ed-fi.org/browse/DATASTD-962</a> )
<a href="#">graduationPlans</a>	Track BeginDate and EndDate (optional) at the entity level. ( <a href="https://tracker.ed-fi.org/browse/DATASTD-963">https://tracker.ed-fi.org/browse/DATASTD-963</a> )
<a href="#">leaveEvents</a>	Track BeginDate and EndDate for leaveEvents. ( <a href="https://tracker.ed-fi.org/browse/DATASTD-965">https://tracker.ed-fi.org/browse/DATASTD-965</a> )

## Summary - Recommended Additions (2 of 2)

<b>Domain Aggregate</b>	<b>Recommended Additions</b>
<a href="#">studentCTEProgramAssociations</a>	Modify Ed-Fi model to allow tracking of BeginDate (optional) and EndDate (optional) for sequence of courses within studentCTEProgramAssociationCTEProgram.CareerPathway. <a href="https://tracker.ed-fi.org/browse/DATASTD-966">https://tracker.ed-fi.org/browse/DATASTD-966</a>
<a href="#">studentEducationOrganizationAssociations</a>	Track BeginDate and EndDate at the entity level - to track the start and end of a District's official responsibility for a student. <a href="https://tracker.ed-fi.org/browse/DATASTD-967">https://tracker.ed-fi.org/browse/DATASTD-967</a>
<a href="#">StaffSchoolAssociation</a>	Track BeginDate and EndDate at the entity level - for partial year associations. <a href="https://tracker.ed-fi.org/browse/DATASTD-968">https://tracker.ed-fi.org/browse/DATASTD-968</a>
educationOrganizationNetworks, educationServiceCenters, localEducationAgencies, stateEducationAgencies, schools ( <a href="#">link</a> )	As a reference from each of the "edOrg" entities, track Operational Status Effective Date within a new Entity "EdOrgOperationalStatus". <a href="https://tracker.ed-fi.org/browse/DATASTD-969">https://tracker.ed-fi.org/browse/DATASTD-969</a>
<a href="#">Programs</a>	Track BeginDate and EndDate at the entity level. <a href="https://tracker.ed-fi.org/browse/DATASTD-970">https://tracker.ed-fi.org/browse/DATASTD-970</a>

# Summary - Feedback Requested

Domain Aggregate	Recommendation
<a href="#">students/staffs</a>	Should BeginDate and EndDate be tracked for the following: <ul style="list-style-type: none"><li>• student/staff.oldEthnicityType</li></ul>
competencyObjectives, learningStandards, learningObjectives ( <a href="#">link</a> )	Tracking BeginDate (optional) and EndDate (optional) at the Entity Level for the following: <ul style="list-style-type: none"><li>• competencyObjective - This entity holds additional competencies for student achievement that are not associated with specific learning objectives (e.g., paying attention in class).</li><li>• learningObjective - This entity represents identified learning objectives for courses in specific grades.</li><li>• learningStandard - This entity is a sub-element of a learning objective consisting of a precise statement of the expectation of a student's proficiency.</li></ul>
assessment, assessmentItem ( <a href="#">link</a> )	Tracking additional Effective Dates apart from the currently captured Assessment.RevisionDate is not necessary for the top level Assessment or AssessmentItem objects. Assessment administration date on the Student Assessment entity provides the historical context of when a specific assessment was taken by a student. There does not appear to be any additional reporting or operational need for tracking effective dates against these high level objects.
DisciplineAction ( <a href="#">link</a> )	Would it be useful to know the date a discipline action ended? Or is the actualDisciplineActionLength field sufficient. If a student is given a disciplinary action of removal with a length of 4. If those removals aren't sequential, and were spread out over 4 calendar weeks, would there be any benefit to tracking the actual date of the final removal?

## Domain Aggregate: Student

Recommended: Track **BeginDate** and **EndDate** for the following elements, or collections:

student.economicDisadvantaged  
student.schoolFoodServicesEligibilityDescriptor  
student.limitedEnglishProficiencyDescriptor  
student.displacementStatus  
Student.disabilities  
Student.races  
student.hispanicLatinoEthnicity  
student.studentLanguage.languageUseType (?)

Track **IssueDate** for the following:

studentIdentificationDocument (? - defer?)

### **Use Case/Benefit:**

Track changes for reporting purposes.

## Domain Aggregate: Staff

Recommended: Tracking **Effective Date** for the following:

staff.staffLanguage.languageUseType - <http://tracker.ed-fi.org/browse/MODL-13>

Staff.races - <http://tracker.ed-fi.org/browse/MODL-14>

staff.hispanicLatinoEthnicity - <http://tracker.ed-fi.org/browse/MODL-15>

### Use Case/Benefit:

Reporting and Tracking changes over time.



## Domain Aggregate: Courses

Recommended: Track **BeginDate (optional)** and **EndDate (optional)** at the entity level for:

Courses - (<http://tracker.ed-fi.org/browse/MODL-17>)

### Use Case/Benefit:

Vendors must be able to tie a course offering to a valid and current Course that is part of the State's or District's course catalog for the current School Year. Adding a date(s) to the Course object would make the courseOffering to course association more straightforward, less prone to error by selecting historical course.

We are suggesting that course dates be optional per the standard, and that implementations can require them should they have a need to track historical course records? **We would like feedback on this approach.**

-- **CM: How would implementations make BeginDate required - impact on API endpoints?**

Alternate implementation options:

- 1) Add a begin date to the key, and require it, leave end date optional
- 2) Add School year to key
- 3) Forego dates and add a status element to determine whether course is valid/current

## Domain Aggregate: graduationPlans

Recommended: Track **BeginDate** and **EndDate (optional)** at the entity level for:

graduationPlans - 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.

<http://tracker.ed-fi.org/browse/MODL-18>

### Use Case/Benefit:

For the tracking of effective dates on standard or individualized graduation plans.

## Domain Aggregate: leaveEvents

Recommended: Track **BeginDate** and **EndDate** for leaveEvents.

LeaveEvent - This event entity represents the recording of the dates of staff leave (e.g., sick leave, personal time, vacation).

<http://tracker.ed-fi.org/browse/MODL-19>

### Use Case/Benefit:

Currently leaveEvents are tracked by individual dates. Work being done for The New Teacher Project (TNTP) will result in a new entity with leaveEvent begin and end dates. The TNTP model, or similar, might be considered as a permanent model for core. This would allow for a more efficient way to report multi-day leave events (e.g. FMLA or maternity leave).

## Domain Aggregate: studentCTEProgramAssociations

Recommended: Modify Ed-Fi model to allow tracking of **BeginDate (optional)** and **EndDate (optional)** for sequence of courses within:

studentCTEProgramAssociationCTEProgram.CareerPathway - A sequence of courses within an area of interest that is a student's educational road map to a chosen career.

### Use Case/Benefit:

Known implementations have extended studentCTEProgramAssociations to include dates tracking each sequential course or step through the CTE program.

## Domain Aggregate: StudentEducationOrganizationAssociations

Recommended: Track **BeginDate** and **EndDate** for at the entity level for:

studentEducationOrganizationAssociation

### Use Case/Benefit:

Track the start and end of a District's official responsibility (financial, attendance, IEP, transportation etc) for a student. This has been implemented by various SEAs through extensions.

## Domain Aggregate: StaffSchoolAssociation

Recommended: Tracking **Begin Date and End Date** for the following:

StaffSchoolAssociation

### Use Case/Benefit:

Required for partial year associations. (Teacher Attrition)

# Recommended UDM Date Additions

**Domain Aggregates:** educationOrganizationNetworks, educationServiceCenters, localEducationAgencies, stateEducationAgencies, schools

Recommended: As a reference from each of the above entities, track **Operational Status Effective Date** within a new Entity "EdOrgOperationalStatus". This date would be track changes to the following element:

operationalStatusType

## **Use Case/Benefit:**

Known implementations have added extensions to capture Operational Status date for reporting purposes. In some instances this is being captured through a separate entity that allows tracking of Status over time.

# Recommended UDM Date Additions

## Domain Aggregate: Program

Recommended: Track **Begin Date and End Date** for the following:

Program

### Use Case/Benefit:

SEA defines programs and validates the student program association dates against the program dates to make sure the program was active.



# Potential UDM Additions Licensee Feedback Requested

The next set of slides contains specific areas where the Ed-Fi Alliance will request feedback from the Ed-Fi community in order to determine whether specific use cases or reporting needs exist to justify the addition of data to the UDM.

The worksheet is a filtered view of all Domain Aggregates where community feedback is needed before a recommendation can be made. The full Domain Aggregate is displayed for full context.

## Domain Aggregate: Student/Staff

Recommended: Track **BeginDate** and **EndDate** for the following elements:

student/staff.oldEthnicityType

### Feedback Requested:

Are dates for this data points currently tracked by SIS vendors?  
Would tracking this date be valuable for reporting?

**Domain Aggregates:** competencyObjectives, learningStandards, learningObjectives

Recommended: Tracking **BeginDate (optional)** and **EndDate (optional)** at the Entity Level for the following:

**competencyObjective** - This entity holds additional competencies for student achievement that are not associated with specific learning objectives (e.g., paying attention in class).

**learningObjective** - This entity represents identified learning objectives for courses in specific grades.

**learningStandard** - This entity is a sub-element of a learning objective consisting of a precise statement of the expectation of a student's proficiency.

## Feedback Requested:

Are begin and end dates currently tracked for each of these entities in the real world? Is keeping track of changes to the Learning Standards and Objectives useful for reporting needs? If it is helpful, is it necessary to keep the historical record of learning standards

Are competency objectives used for cognitive measure/non-course grades, or for rubric based assessment?

## Domain Aggregate: Assessment, AssessmentItem

**Assumption:** Tracking additional Effective Dates apart from the currently captured Assessment.RevisionDate is not necessary for the top level Assessment or AssessmentItem objects. Assessment administration date on the Student Assessment entity provides the historical context of when a specific assessment was taken by a student. There does not appear to be any additional reporting or operational need for tracking effective dates against these high level objects.

### Feedback Requested:

Are there any scenarios that would require effective dates to be tracked at the Assessment or Assessment Item level?

## Domain Aggregate: Discipline Actions

Consider: Tracking **EndDate** for the following:

Discipline Action

### Feedback Requested:

Discipline action currently includes

`disciplineDate`

`length` - The length of time in school days for the Discipline Action (e.g. removal, detention), if applicable.

`actualDisciplineActionLength` - Indicates the actual length in school days of a student's disciplinary assignment.

Would it be useful to know the date a discipline action ended? Or is the `actualDisciplineActionLength` field sufficient?

If a student is given a disciplinary action of removal, with a length of 4. If those removals aren't sequential, and are spread out over 4 calendar weeks, is there any benefit to tracking the date of the final removal?

UDM Dates Not Recommended

# UDM Dates Not Recommended

The worksheet is a filtered view of all elements where there is currently no UDM date, and adding a UDM date is not required or recommended.

Note: There are areas within the UDM where dates are not included with the top level entity because those dates can be derived through association or reference to other entities. For example:

Program: via StudentProgramAssociation

CourseOffering: via SessionReference

ReportCard: via GradingPeriodReference

Grade: via GradingPeriodReference