

Student Daily Attendance

April
2025

Student Daily Attendance

Table of Contents

- [Summary](#)
- [Batch Condition](#)
- [Object Triggering Logic](#)
- [Object Population and Business Rules](#)
- [Object Data Elements Logic](#)
- [JSON Sample](#)
- [Appendix](#)

Summary

This object provides daily attendance information for a particular student in a particular school on a particular date.

SIF_Events are reported for this object.

v4.3- <http://specification.sifassociation.org/Implementation/NA/4.3/StudentInformationSystemsWorkingGroup.html#31628StudentDailyAttendance>

Batch Condition

1. Existing SIF_Condition elements to support:
 - a. @StudentPersonalRefId
 - b. @SchoolInfoRefId
 - c. @Date
 - d. @SchoolYear

Object Triggering Logic

Action	Business Rule(s)
--------	------------------

Add	<p>When a new (Excuse NOT = X) attendance event is verified for a student and saved for a student with an enrollment</p> <p>When a student has both attendance and positive attendance</p> <ul style="list-style-type: none"> • Note: An Add is not sent when the only attendance occurrence that exists is a positive attendance (Unit attendance) event. Attendance event must exist on attendance table for given day to send Add. • When a student's enrollment exists which didn't previously existed • Report attendance for each school the student has a Student School Enrollment record for • Attendance date must fall on or between enrollment start and end dates • A record will send for each distinct Date and Attendance Event • Do not send records if the student's enrollment is marked as a No Show or State Exclude
Add/Change/Delete	If Attendance Event Excuse is changed
Add/Change	If Positive Attendance Time In or Time Out Changes or Positive Attendance Time is removed
Change	<p>If Attendance Comments on the Attendance table change</p> <p>When a (Excuse = X) attendance event is changed to a (Excuse NOT = X) attendance event</p>
Delete	<p>Delete attendance record if all attendance is removed for the day</p> <ul style="list-style-type: none"> • Note: When a student's enrollment is deleted, no delete events are sent • Reference ticket : SIS-153363

Object Population and Business Rules

#	Requirement
R1	<ol style="list-style-type: none"> 1. <u>Half Day absent (0.5):</u> <ol style="list-style-type: none"> a. The sum of all absent minutes the student is assigned in their periods, where the attendance code has Status = A and Excuse NOT = X, minus any Present Minutes must be \geq ((Half Day Absent Minutes)), and $<$ ((Whole Day Absent Minutes)). <ol style="list-style-type: none"> i. If the student qualifies to report half day (0.5) absent: <ol style="list-style-type: none"> 1. StudentDailyAttendance/AttendanceCodeInfoRefId must match the RefId for the Absent/Unknown AttendanceCodeInfo object with AbsenceValue = 0.5 in the calendar. 2. When the calendar does not have an Absent attendance code with Excuse = Unknown, report the RefId for the attendance code in the calendar with Status = Absent and Excuse= Unexcused that has AbsenceValue = 0.5. 3. When neither an Absent/Unknown nor Absent/Unexcused attendance code exists in the calendar, do not report the absence. 2. <u>Whole Day absent (1.0):</u> <ol style="list-style-type: none"> a. The sum of all absent minutes the student is assigned in their periods, where the attendance code has Status = A and Excuse NOT = X, minus any Present Minutes must be \geq ((Whole Day Absent Minutes)). <ol style="list-style-type: none"> i. If the student qualifies to report full day (1.0) absent: <ol style="list-style-type: none"> 1. StudentDailyAttendance/AttendanceCodeInfoRefId must match the RefId for the Absent/Unknown AttendanceCodeInfo object with AbsenceValue = 1.0 in the calendar. 2. When the calendar does not have an Absent attendance code with Excuse = Unknown, report the RefId for the attendance code in the calendar with Status = Absent and Excuse= Unexcused that has AbsenceValue = 1.0. 3. When neither an Absent/Unknown nor Absent/Unexcused attendance code exists in the calendar, do not report the absence. 3. Definitions: <ol style="list-style-type: none"> a. Half Day Absent Minutes: <ol style="list-style-type: none"> i. (System Admin>Calendar>Calendar>Grade Levels>Grade Level Detail>Half Day Absence (minutes)) for the grade the student is enrolled on this day. <ol style="list-style-type: none"> 1. When Null, (System Admin>Calendar>Calendar>Half Day Absence (minutes)) <ol style="list-style-type: none"> a. When Null, use 120. b. Whole Day Absent Minutes: <ol style="list-style-type: none"> i. (System Admin>Calendar>Calendar>Grade Levels>Grade Level Detail>Whole Day Absence (minutes)) for the grade the student is enrolled on this day. <ol style="list-style-type: none"> 1. When Null, (System Admin>Calendar>Calendar>Whole Day Absence (minutes)) <ol style="list-style-type: none"> a. When Null, use 240.
R2	When the student is NOT either half or full day absent, a StudentDailyAttendance object must not be reported for this student and day.

R3	<p>The Attendance Code being referenced (AttendanceCodeInfoRefId) must be in the Attendance Code Allowed List:</p> <ol style="list-style-type: none"> 1. System Admin>Data Interchange>Zones>SIF Zone Options>Attendance Code Allowed List 2. We will report all attendance codes when no attendance code is entered in the allowed list on the Zone Options tab.
R4	<ul style="list-style-type: none"> • Student does not have "State Exclude" = Checked on the enrollment unless the Zone Options allows these students to report. • Student does not have "No Show" = Checked on the enrollment unless the Zone Options allows these students to report. • Student is not exclusively enrolled in a non-Primary enrollment on this day unless "Exclude All Secondary Enrollments" = NOT Checked. • Send records for only Primary enrolled students when "Exclude All Secondary Enrollments" = Checked. • The associated calendar does not have "Exclude from SIF Exchange" = Checked • "Exclude from SIF reporting" on the enrollment State Grade Level is not checked. • Do Not Report when the Calendar > 'Exclude from SIF Exchange' is selected
R5	<p>Follow SIF Unity Zone Options Rules for Zones:</p> <p>Exclude:</p> <div> <input type="checkbox"/> No Show Enrollments <input type="checkbox"/> Secondary Enrollments <input type="checkbox"/> State Exclude Enrollments <input type="checkbox"/> State Exclude District Assignments </div> <p>Publish:</p> <div> <input type="checkbox"/> Social Security Numbers in StaffPersonal <input type="checkbox"/> Social Security Numbers in StudentPersonal </div> <p>Demographics:</p> <div> <input type="checkbox"/> Use Legal Gender <input type="checkbox"/> Use Legal Name </div> <p>Note: A Natural RefId is not created for this object, it is created by a compilation of IDs. Users can use other IDs within the object to run batch.</p>

Object Data Elements Logic

	Data Element Label	Business Rule(s)	M/ C/ O	Data Source GUI Path	Database Field	Uses Template Logic (✓ / ✗ / EXT)
1	@RefId	<i>A GUID that identifies an instance of this object. This RefId is new for 2.7M and MUST be supported like other objects that have a RefId (i.e. it is the key for the object). The alternate keys MUST continue to be supported.</i>	M			
2	@StudentPersonalRefId	<i>The ID (GUID) of the student for whom this attendance information is being reported.</i> <hr/> The RefId for the student.	M		attendance. personId	
3	@SchoolInfoRefId	<i>The ID (GUID) of the school for which this attendance information is being reported.</i> <hr/> The RefId for the school.	M		calendar. schoolId	
4	@Date	<i>The calendar date to which this attendance information relates.</i> <hr/> The attendance date.	M	Attendance > Date	attendance. date	

5	@SchoolYear	<p><i>School year for which this enrollment is applicable, expressed as the four-digit year in which the school year ends (e.g. 2007 for the 2006-07 school year).</i></p> <hr/> <p>The school year.</p>	M		Enrollment. endYear	
6	AttendanceCodeInfoRefId	<p><i>The ID (GUID) of the locally-defined daily attendance code information.</i></p> <hr/> <ol style="list-style-type: none"> Report the RefId based on the most common absent (Status = A and Excuse NOT = X) attendance code assigned across all of the student's periods in the day. <ol style="list-style-type: none"> When > 1 attendance code is considered most common (assigned during the same number of periods in the day), use the attendance code with the most absent minutes. <ol style="list-style-type: none"> Otherwise, use the last-entered absent attendance code. When the student is considered ((Half Day Absent)), report the AttendanceCodeInfo version with an AbsenceValue = 0.5. When the student is considered (Whole Day Absent)), report the AttendanceCodeInfo version with an AbsenceValue = 1.0. <p>The AttendanceCodeInfo RefId in the StudentDailyAttendance object provided for the student and day will always reference an existing, valid AttendanceCodeInfo.</p>	M		attendance. status attendance. excuse	

7	TimeIn	<p><i>The time the student entered or returned to school.</i></p> <hr/> <ol style="list-style-type: none"> 1. Attendance exists on a day <ol style="list-style-type: none"> a. Report the start time of the student's first attended non-absent and non-Early Release instructional period in the day, where: <ol style="list-style-type: none"> i. Status NOT = Absent or Early Release b. Do not report this element when: <ol style="list-style-type: none"> i. Student does not have any periods in the day in which: <ol style="list-style-type: none"> 1. Status isn't = Absent or Early Release c. Format example: 08:52:00 <ol style="list-style-type: none"> i. Do not change the time format. 2. Attendance AND Positive Attendance exist on a given day <ol style="list-style-type: none"> a. Follow Attendance exists logic above <ol style="list-style-type: none"> i. Utilize the positive attendance TimeIn instead of the associated period startTime in the calculation for earliest time <ol style="list-style-type: none"> 1. Format example: 08:52:00 <ol style="list-style-type: none"> a. Do not change the time format. b. Positive attendance will be ignored if the time overlaps a period with an entered absence on the attendance table. 	O	<p>System Administration> Calendar> Calendar> Periods</p> <p>Student Information > General > Attendance > Positive Attendance > positive attendance record</p>	<p>period. startTime</p> <p>AttendanceUnit. startTime</p> <p>attendance</p>	
---	--------	---	---	---	---	--

8	TimeOut	<p><i>The time the student left school.</i></p> <hr/> <ol style="list-style-type: none"> Report the end time of the student's latest attended non-absent, non-early release instructional period in the day, where: <ol style="list-style-type: none"> Status NOT = Absent or Early Release Do not report this element when: <ol style="list-style-type: none"> Student does not have any periods in the day in which: <ol style="list-style-type: none"> Status isn't = Absent or Early Release Format example: 08:52:00 <ol style="list-style-type: none"> Do not change the time format. Attendance AND Positive Attendance exist on a given day <ol style="list-style-type: none"> Follow Attendance exists logic above <ol style="list-style-type: none"> Utilize the positive attendance TimeOut instead of the associated period endTime in the calculation for latest time <ol style="list-style-type: none"> Format example: 08:52:00 <ol style="list-style-type: none"> Do not change the time format. Positive attendance will be ignored if the time overlaps a period with an entered absence on the attendance table. 	O	<p>System Administration> Calendar> Calendar> Periods</p> <p>Student Information > General > Attendance > Positive Attendance > positive attendance record</p>	<p>period. endTime</p> <p>AttendanceUnit. endTime</p> <p>attendance</p>	
---	---------	--	---	---	---	--

9	AttendanceNote	<p>Note related to this particular attendance.</p> <ol style="list-style-type: none"> 1. Report the non-null Comment (Student Info>General>Attendance>Comments) from across all periods in which the student had a qualified(Not excuse = 'X'), "most common" absent Attendance Code where: <ol style="list-style-type: none"> a. Status = Absent b. Excuse NOT = Exempt AND c. The Comments field is NOT Null 2. In the case of a tie, will select alphabetically by the code. (i.e: AE before AU) <p>*Positive Attendance recorded on the AttendanceUnit table will not be utilized.</p>	O	<p>Student Info>General>Attendance>Comments</p> <p>Student Information > General > Attendance > Positive Attendance > positive attendance record</p>	<p>attendance.comments</p> <p>AttendanceUnit.comments</p>	
10	InstructionalDeliveryMode	<i>Optional. Does Not Report.</i>				
11	ExpectationsMet	<i>Optional. Does Not Report.</i>				

JSON Sample

```
{
  "StudentDailyAttendance": {
    "RefId": "359D75101AD0A9D7A8C3DAD0A85103A2",
    "StudentPersonalRefId": "D3E34B359D75101A8C3D00AA001A1652",
    "SchoolInfoRefId": "CA285746359D75101A8C36432A901A16",
    "Date": "2002-11-01",
    "SchoolYear": "2003",
    "AttendanceCodeInfoRefId": "84726485960937465A53B2781BB260AA",
    "TimeIn": "13:30:00",
    "TimeOut": "12:05:00",
    "AttendanceNote": "Left for Orthodontist appt. and returned to school afterward."
  }
}
```

Appendix