

Student Period Attendance

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Summary

This object provides attendance for a student in the context of a SectionInfo object. This object is used by all agents in a zone that provide period attendance, but don't have the logic to determine whether or not they have sufficient rights to override attendance from another user or system. Agents that represent a system that can validate attendance based on, among other things, its source, should subscribe to StudentPeriodAttendance events to collect "suggested" attendance changes from the zone, and should then publish "accepted" attendance changes as OfficialStudentPeriodAttendance events. A rejected change would result in an event that reverts the system that generated the rejected event back to its previous state or to some other state that represents the correct "official" attendance.

SIF_Events are reported for this object.

v4.3 - <http://specification.sifassociation.org/Implementation/NA/4.3/GradeBookWorkingGroup.html#379StudentPeriodAttendance>

Batch Condition

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

Object Triggering Logic

Action	Business Rule(s)
Add	<ol style="list-style-type: none"> 1. When a new (Excuse NOT = X) attendance event is verified and saved for a student with an enrollment 2. When a student's enrollment exists which didn't previously existed <p>Note:</p> <ul style="list-style-type: none"> • The student must have a StudentSectionEnrollment record to report • A record will send for each distinct Date, Section and Attendance Event • Do not send records if the student's enrollment is marked as a No Show or State Exclude
Change	When a (Excuse = X) attendance event is changed to a (Excuse NOT = X) attendance event
Delete	<ol style="list-style-type: none"> 1. When a period attendance is set to blank or from a non-exempt attendance code to an exempt attendance code. 2. Delete attendance record if all attendance is removed for the day 3. When No Show or State Exclude check boxes are checked 4. When a student's enrollment no longer exists
	<p>Note:</p> <ul style="list-style-type: none"> • When a student's enrollment is deleted, no delete events are sent <ul style="list-style-type: none"> ◦ Reference ticket : SIS-153363 • Student Period Attendance will not be deleted if the student is removed from the course section. Users must either delete the attendance event or use the Deleter Tool

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)). 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)). 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 StudentPeriodAttendance 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. When no Attendance Code is selected on the Zone Options, all attendance codes will report. 3. When any Attendance Code is selected on the Zone Options, only the attendance codes selected are reported.

R4

- 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.
- Do Not Report when the Calendar > 'Exclude from SIF Exchange' is selected

R5 Follow [SIF Unity Zone Options](#) Rules for Zones:

Exclude:

☐ No Show Enrollments ☐ Secondary Enrollments ☐ State Exclude Enrollments ☐ State Exclude District Assignments

Publish:

☐ Social Security Numbers in StaffPersonal ☐ Social Security Numbers in StudentPersonal

Demographics:

☐ Use Legal Gender ☐ Use Legal Name

Object Data Elements Logic

	Data Element Label	Business Rule(s)	M/ C/ O	Data Source GUI Path	Database Field
1	@RefId	<hr/> Calculated	M		
2	@StudentPersonalRefId	<i>The GUID of the student that this attendance applies to.</i> <hr/> References the applicable StudentPersonal	M		attendance.personId
3	@SectionInfoRefId	<i>The GUID of the section that this attendance applies to.</i> <hr/> References the applicable SectionInfo	M		Section.sectionID
4	@SchoolInfoRefId	<i>The school where the attendance was recorded. Somewhat redundant, needed for requests.</i> <hr/> References the applicable SschoolInfo	M		calendar.schoolId
5	@Date	<i>The date of the attendance event.</i> <hr/> The attendance date.	M	Student Information > General > Attendance > attendance record > Date	attendance.date

TECHNOLOGY FOUNDATIONS - STUDENT PERIOD ATTENDANCE

6	TimetablePeriod	<i>The period within which attendance is being reported, e.g. "4D". Conditional on the SectionInfo object having MeetingTime elements. If one or more are defined for the Section, this element is required.</i>	C		
7	TimeIn	<i>Optional. Does Not Report.</i>			
8	TimeOut	<i>Optional. Does Not Report.</i>			
9	AttendanceCode (List)	<i>The local attendance code.</i>	M		
10	AttendanceCode/ @AttendanceCodeInfoRefId	<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. 	M		
11	AuditInfo (List)	<i>An audit trail to help determine who entered this attendance event and when.</i>	M		
12	AuditInfo/ CreationUser (List)	<i>Information about which staff member created this attendance record.</i>	M		
13	AuditInfo/CreationUser/ @Type	<hr/> <ol style="list-style-type: none"> Checks for direct title match to the values listed. If none, reports "Other" 			employmentAssignment. title

TECHNOLOGY FOUNDATIONS - STUDENT PERIOD ATTENDANCE

14	AuditInfo/ CreationUser/ UserId	<p><i>Unique identifier of the user that created the attendance record. This will depend on the user and the source. The preferred identifier would be a RefId for a StaffPersonal, StudentContact, or StudentPersonal Object. However, the user may not be associated with any of these SIF objects. In that case a unique Id given by the source should be used.</i></p> <hr/> <p>Reports the creator</p>	M		
15	AuditInfo/ CreationDateTime	<p><i>The date and time of this attendance record was created.</i></p> <hr/> <p>Reports the Time</p>	M		
16	AttendanceComment	<i>Optional. Does Not Report.</i>			
17	InstructionalDeliveryMode	<i>Optional. Does Not Report.</i>			
18	ExpectationsMet	<i>Optional. Does Not Report.</i>			

JSON Sample

```
{
  "StudentPeriodAttendance": {
    "RefId": "98157AA013BA8C3D00AA012B359D7512",
    "StudentPersonalRefId": "A75A00101A8C301D02E3A05B359D0A00",
    "SchoolInfoRefId": "11737EA4301CADCA75C87214A7C46BDB",
    "Date": "2001-03-05",
    "SectionInfoRefId": "D02E3A05B359DA75A00101A8C3010A00",
    "TimetablePeriod": "P4",
    "AttendanceCode": {
      "AttendanceCodeInfoRefId": "1A0000359D75101A8C3D00AA00A2E35B",
      "value": "042"
    },
    "AuditInfo": {
      "CreationUser": {
        "Type": "School Admin",
        "UserId": "AttendanceKeeper"
      },
      "CreationDateTime": "2006-09-26T13:43:00-07:00"
    }
  }
}
```

Appendix