



# **SIF Profile Mappings**

## **Using Schools Interoperability Framework**

Version 11.0 2023-2024

## Contents

SIF Profile Revision History .....	4
2023-2024 Changes .....	5
Added Collection .....	5
Deleted Objects .....	5
Added Objects .....	5
Deleted Elements .....	5
Added Elements .....	5
Changed Elements .....	5
Other Changes .....	6
1.1 – Purpose .....	7
1.2 – How to Use This Document.....	7
1.3 – SRI (Student Reporting in Iowa) Workflow .....	8
1.4 – SLF (Student Locator Framework) Automation Workflow .....	8
1.5 – Iowa MTSS Automation Workflow .....	8
1.6 – Iowa IDEA Automation Workflow.....	8
2 – Breakdown of SIF Objects by State Collection .....	9
3 – SIF Object Definition Format.....	9
Table Definitions .....	10
4 – SIF Object Definitions .....	10
4.1 – Grade Book Objects .....	10
4.1.1 MarkInfo .....	10
4.1.2 MarkValueInfo .....	11
4.1.3 SectionMarkInfo.....	14
4.1.4 StudentPeriodAttendance .....	16
4.1.5 StudentSectionMarks.....	18
4.2 – Student Information System Objects .....	20
4.2.1 AttendanceCodeInfo .....	20
4.2.17 CalendarDate .....	22
4.2.2 CalendarSummary.....	24

4.2.3 DisciplineIncident.....	26
4.2.4 LEAInfo.....	38
4.2.5 SchoolCourseInfo .....	39
4.2.6 SchoolInfo .....	44
4.2.7 SectionInfo .....	46
4.2.8 StaffAssignment .....	49
4.2.9 StaffPersonal .....	51
4.2.10 StudentAttendanceSummary .....	52
4.2.11 StudentContact.....	55
4.2.12 StudentDailyAttendance .....	58
4.2.13 StudentPersonal .....	59
4.2.14 StudentSchoolEnrollment .....	66
4.2.15 StudentSectionEnrollment .....	81
4.2.16 TermInfo .....	82
4.3 - Student Record Exchange Objects .....	83
4.3.1 StudentDemographicRecord.....	83
4.3.2 StudentAcademicRecord .....	89

# SIF Profile Revision History

Version	Date	Changes	Description
<b>1.0</b>	<b>7/16/2012</b>	<b>2012-2013 Release</b>	<b>Profile release for 2012-13 school year.</b>
1.0.1	8/14/2012	Minor update	Minor updates to version 1.0.
1.0.2	8/09/2013	2013-2014 Release	Profile release for 13-14 school year.
1.0.2	9/24/2013	Minor update	Minor updates to version 1.0.2.
1.0.2	9/30/2013	Minor update	Minor updates to version 1.0.2.
1.0.2	11/15/2013	Minor update	Minor updates to version 1.0.2.
1.0.2	11/26/2013	Minor update	Minor updates to version 1.0.2.
<b>2.0</b>	<b>12/31/2014</b>	<b>2014-2015 Release</b>	<b>Profile release for 2014-15 school year.</b>
2.0.1	2/5/2015	Minor update	Minor updates to version 2.0.
2.0.2	3/20/2015	Minor update	Minor updates to version 2.0.
<b>3.0</b>	<b>5/26/2015</b>	<b>2015-16 Release</b>	<b>Profile release for 2015-16 school year.</b>
<b>4.0</b>	<b>5/6/2016</b>	<b>2016-17 Release</b>	<b>Profile release for 2016-17 school year.</b>
<b>5.0</b>	<b>5/10/2017</b>	<b>2017-18 Release</b>	<b>Profile release for 2017-18 school year.</b>
5.1	6/28/2017	Revision	Five extended elements moved from StudentSnapshot to StudentSchoolEnrollment.
<b>6.0</b>	<b>5/7/2018</b>	<b>2018-2019 Release</b>	<b>Profile release for 2018-2019 school year.</b>
<b>7.0</b>	<b>5/3/2019</b>	<b>2019-2020 Release</b>	<b>Profile release for 2019-2020 school year.</b>
7.1	6/20/2019	Minor update	Update to JobFunction / Code and ... in StaffAssignment.

Version	Date	Changes	Description
8.0	5/20/2020	2020-2021 Release	Profile release for 2020-2021 school year.
8.1	6/24/2020	Minor Update	Update to CourseType codeset and new language list for BilitLang2/3
9.0	5/12/2021	2021-2022 Release	Profile release for 2021-2022 school year.
10.0	5/11/2022	2022-2023 Release	Profile release for 2022-2023 school year
11.0	5/12/2023	2023-2024 Release	Profile release for 2023-2024 school year

## 2023-2024 Changes

The following changes have been made to this profile in compliance with the Student Reporting in Iowa 2023-2024 Data Dictionary, MTSS, SLF, and IDEA (historical profile changes are available upon request)

### Added Collection

- None

### Deleted Objects

- None

### Added Objects

- None

### Deleted Elements

- None

### Added Elements

- StudentAcademicRecord / SIF\_ExtendedElement / BilitLang2
- StudentAcademicRecord / SIF\_ExtendedElement / BilitLang3
- StudentSchoolEnrollment / SIF\_ExtendedElement/ ESA
- SchoolCourseInfo / SIF\_ExtendedElement / EmbedWBL

### Changed Elements

- None

**Other Changes**

- None

This profile document is being provided to application vendors based on the Iowa DE data reporting requirements for SRI, SLF, MTSS, IDEA and transcripts. The Iowa Department of Education is committed to helping districts and schools collect and report state-mandated State ID, and Student Reporting In Iowa, Iowa MTSS, IDEA and transcript data in a more timely and automated manner. Web-enabled software tools are available to all LEAs to facilitate the collection of this data using SIF.

The Schools Interoperability Framework™ (SIF) standard describes both a data model and a transport mechanism by which data is securely requested from, routed, and delivered to authorized applications. Several application vendors already provide SIF-enabling extensions (agents) for their software although most support only a small number of SIF objects and data elements. The full SIF Implementation Specification can be found at the [Access 4 Learning \(A4L\) Community website](#).

## 1.1 – Purpose

The purpose of this document is to provide application vendors with the information needed to successfully develop SIF agents in compliance with Iowa Department of Education reporting requirements. Districts and schools are encouraged to work with their application vendors to ensure a suitable SIF agent is available and able to publish the data needed to best represent their interests with the state.

The information in this document is provided in addition to and in concert with current DE publications for data definitions. As such, there is no attempt here to replicate all data element definitions and code sets, or to describe business logic or validation rules except where further explanation or context is needed.

## 1.2 – How to Use This Document

This document contains SIF object definitions and explanations that facilitate the collection of data for DE systems. While the SIF specification contains in excess of 250 SIF objects and services, only those applicable to DE reporting requirements are documented in this profile. Accompanying each object are notes on usage and expected behaviors, including whether support for SIF events is needed or not.

SIF mappings are based on SIF Implementation Specification v2.4. DE data elements are mapped to existing SIF objects and data elements where possible. SIF extended elements are used in cases where no suitable mapping is available. DE data element codes are used within the SIF object definitions to signify the element mapping.

For most of the SIF\_ExtendedElements, which are located at the root of an object, the parent element SIF\_ExtendedElements was intentionally left out from the path after its first mention. The XML structure remains the same, but the notation has been simplified. Where the SIF\_ExtendedElements is an extension of an element, and not the root, then the full path is noted. The Appendix provides code sets for data elements as they pertain to DE and other useful information not generally found in other DE documents or in the SIF object definitions.

### **1.3 – SRI (Student Reporting in Iowa) Workflow**

State reporting personnel within districts and schools (LEAs) are given access to a secure web portal through which they can direct the collection, validation, and submission of state reporting data. These folks are given complete control over state reporting processes and decide when it is appropriate to approve the data and submit it to DE. The portal facilitates the collection of data using SIF. Validation checks are performed against collected data and the results are made available for review. Any data issues need to be corrected in the source system. Data previews are available in the software to assist in determining whether the data set is complete and ready for submission.

### **1.4 – SLF (Student Locator Framework) Automation Workflow**

When using a capable SIF agent, LEAs are able to acquire student state IDs from and communicate demographic changes to the state-hosted student identifier system. When a student is added to the local Student Information System (SIS), the corresponding SIF agent generates a SIF Add event on the StudentPersonal and StudentSchoolEnrollment objects. These events cause the SIF agent for SLF to request a student state ID from the state-hosted student identifier system. Upon successful resolution the assigned state ID is delivered to the local SIF zone in the form of a SIF Change event on the StudentPersonal object. The SIS agent should then consume the assigned state ID and write it to the appropriate location with the SIS application database. Changes to a student's demographic attributes in a local SIS generate SIF Change events on the StudentPersonal and StudentSchoolEnrollment objects. These changes could update the data in the state-hosted student identifier system.

The SIF objects needed to support this workflow are limited to the LEAInfo, StudentPersonal, StudentSchoolEnrollment, and SchoolInfo objects. Specific elements can be located within this specification by searching for the keyword "SLF".

### **1.5 – Iowa MTSS Automation Workflow**

LEAs are able to populate the Iowa MTSS Data System and/or Assessment System automatically when using a SIF agent that responds to event-driven transactions. When data are changed in the local SIS, the corresponding SIF agent should generate a SIF Add, Change (Update), or Delete event as appropriate. Specific elements can be located within this profile by searching for the keyword "MTSS".

### **1.6 – Iowa IDEA Automation Workflow**

LEAs are able to populate the Iowa IDEA Data System for students with an IEP automatically when using a SIF agent that responds to event-driven transactions. When data are changed in the local SIS, the corresponding SIF agent should generate a SIF Add, Change (Update), or Delete event as appropriate. Specific elements can be located within this profile by searching for the keyword "IDEA".



## 2 – Breakdown of SIF Objects by State Collection

The table below shows the Iowa DE collections and the SIF Objects used to gather their respective data. Please note that the submitting district identifier for all Iowa State SIF collections is provided through LEAInfo/StateProvinceId.

Collection	Objects
MTSS	MarkInfo, MarkValueInfo, SectionMarkInfo, StudentPeriodAttendance, StudentSectionMarks, AttendanceCodeInfo, CalendarDate, CalendarSummary, DisciplineIncident, LEAInfo, SchoolCourseInfo, SchoolInfo, SectionInfo, StaffAssignment, StudentAttendanceSummary, StaffPersonal, StudentDailyAttendance, StudentPersonal, StudentSchoolEnrollment, StudentSectionEnrollment, TermInfo
Student Reporting in Iowa (SRI)	StudentSectionMarks, CalendarSummary, DisciplineIncident, LEAInfo, SchoolCourseInfo, SchoolInfo, SectionInfo, StaffPersonal, StudentAttendanceSummary, StudentPersonal, StudentSchoolEnrollment, StudentSectionEnrollment, TermInfo
Transcript	LEAInfo, StudentDemographicRecord, StudentAcademicRecord
SLF	LEAInfo, SchoolInfo, StudentPersonal, StudentSchoolEnrollment
IDEA	CalendarSummary, DisciplineIncident, LEAInfo, SchoolInfo, StaffAssignment, StudentAttendanceSummary, StaffPersonal, StudentContact, StudentPersonal, StudentSchoolEnrollment, TermInfo

## 3 – SIF Object Definition Format

The SIF objects needed for Iowa reporting requirements are listed in this document and appear in a format very similar to that used in the SIF Implementation Specification, with the following additions:

- The column “Profile Char” reflects whether an element or an attribute is Mandatory, Optional, or Conditional.
  - “M” stands for Mandatory and means that an agent must provide the SIF element and a valid value in every instance.
  - “O” stands for Optional and means that an agent must provide the SIF element and a valid value if a value exists in the Student Information System or other software system.
  - “C” stands for Conditional and means that an agent must provide the SIF element and a valid value if the condition exists according to the IA DE Business Rules.
  - “R” indicates that, in addition to the restrictions above, the element is repeatable.
- The gray cells in the “Profile Char” column highlight discrepancies between the SIF Specification and Iowa SIF Profile mappings.
- A column has been added to explain any business rules or instructions as they relate to this SIF mapping.

## Table Definitions

Element/Attribute	Profile Chart	IA DE Collection/ Element Code	Description	SIF Type	IA DE Business Rules
SIF Element or attribute name	Requirement level (Mandatory, optional, conditional, etc.) as required for adherence to this profile.	The identifying IA DE code.	Description as identified by the SIF Implementation Specification 2.4	The data type as defined by the SIF Implementation Specification 2.4	Brief explanations of IA DE Business Rules, or references to notes, or brief instructions for an element.

## 4 – SIF Object Definitions

### 4.1 – Grade Book Objects

The goal of the Grade Book Objects is an efficient, functional standard that supports the entire SIF structure, allowing for easy, bi-directional transfer of data integral to grading.

#### 4.1.1 MarkInfo

(SIF Implementation Specification 2.4 - 6.7.4)

This object defines each mark that can be recorded and associates it with a MarkValueInfo object that lists the types of values and valid values for each type. It also places the definition in the context of a school and a school year.

SIF\_Events are reported for this object.

Element/Attribute	Profile Chart	IA DE Collection/ Element Code	Description	SIF Type	IA DE Business Rules
@RefId	M		The Id (GUID) that uniquely identifies this Grading Mark entity	RefIdType	
@MarkValueInfoRefId	M		The Id (GUID) that uniquely identifies the MarkValueInfo.	RefIdType	
@SchoolInfoRefId	M		The Id (GUID) that uniquely identifies the School that this Mark applies to	RefIdType	

Element/Attribute	Profile Chart	IA DE Collection/ Element Code	Description	SIF Type	IA DE Business Rules
SchoolYear	M		The school year for which this MarkInfo is applicable, expressed as the four-digit year in which the school year ends (e.g. 2024 for the 2023-24 school year).	SchoolYear	
Description	M	MTSS	Textual description of the type of Mark (e.g. "Marking Period Grade", "Comment1", "Comment2", "Conduct", "Effort", "WorkHabits").	xs:string	

#### 4.1.2 MarkValueInfo

(SIF Implementation Specification 2.4 - 6.7.5)

This object defines the types of values allowed for a mark and the domain for each mark value. At least one of the Percentage, Numeric, Letter, or Narrative nodes must be used to create a valid MarkValueInfo.

SIF\_Events are reported for this object.

Element/Attribute	Profile Chart	IA DE Collection/ Element Code	Description	SIF Type	IA DE Business Rules
@RefId	M		The Id (GUID) that uniquely identifies this MarkValueInfo entity	RefIdType	
@SchoolInfoRefId	M		The Id (GUID) that uniquely identifies the School that this Mark Values apply to.	RefIdType	
SchoolYear	M		The school year for which this MarkValueInfo is applicable, expressed as the four-digit year in which the school year ends (e.g. 2024 for the 2023-24 school year).	SchoolYear	

Element/Attribute	Profile Chart	IA DE Collection/ Element Code	Description	SIF Type	IA DE Business Rules
Name	M	MTSS	The text name of the value list ("Letter Grades", "Letter Grades (+/-)", "ESU", "Pass/Fail", "Override Grades", "Citizenship Comment Codes", etc.).	xs:string	
Percentage	M	MTSS	Indicates whether a percent Mark is accepted (format ##0.00).		
@IsAccepted	M	MTSS	Indicates whether a percent Mark is accepted and is used in Change events to unambiguously signal whether support for the Mark has changed, especially ended.	xs: boolean	
Percentage / Minimum	O	MTSS	The minimum percent value accepted for this mark. If present, the publisher of this object is required to ensure that any values present in the tudentSectionMarks object will not be lower than this value.	xs: decimal xs:fractionDigits 2	
Percentage / Maximum	O	MTSS	The maximum percent value accepted for this mark. If present, the publisher of this object is required to ensure that any values present in the tudentSectionMarks object will not be higher than this value.	xs: decimal xs:fractionDigits 2	
Numeric	M	MTSS	Indicates whether a raw numeric score is accepted.		
@IsAccepted	M	MTSS	Indicates whether a raw numeric score is accepted and is used in Change events to unambiguously signal whether support for the score has changed, especially ended	xs: boolean	

Element/Attribute	Profile Chart	IA DE Collection/ Element Code	Description	SIF Type	IA DE Business Rules
Numeric / Precision	O	MTSS	Number of significant digits.	xs: unsignedInt	
Numeric / Scale	O	MTSS	Number of decimal places.	xs: unsignedInt	
Numeric / Low	O	MTSS	Lowest Mark in the range (e.g., 98, 3.95).	xs: decimal xs:fractionDigits 2	
Numeric / High	O	MTSS	Highest Mark in the range (e.g., 100, 4.0).	xs: decimal xs:fractionDigits 2	
Letter	M	MTSS	Indicates whether a letter Mark is accepted.	ActionList (ValidMark/Code)	
@IsAccepted	M	MTSS	Indicates whether a letter Mark is accepted and is used in Change events to unambiguously signal whether support for the Mark has changed, especially ended.	xs: boolean	
Letter / ValidMark	CR	MTSS	List of specific valid letter Marks. May be omitted when IsAccepted is false, otherwise mandatory.		
@SIF_Action	O	MTSS	In a Change event, this flag can be used to indicate an element has been deleted from the parent list container. At a minimum, the key for the list must also be present.	Delete	
Letter / ValidMark / Code	M	MTSS	String representing the actual Mark that would appear on the report card (e.g., "A+", "I", "100").	xs: token	
Letter / ValidMark / NumericEquivalent	O	MTSS	Numeric equivalent for the Mark (e.g., "100", "4.0").	xs: decimal xs:fractionDigits 2	

Element/Attribute	Profile Chart	IA DE Collection/ Element Code	Description	SIF Type	IA DE Business Rules
Letter / ValidMark / Description	O	MTSS	The description for this code (e.g. “Excellent”, “Participates in Class”, “Incomplete”, etc.).	xs: string	
Narrative	M	MTSS	If present, indicates that a free-form text narrative is accepted.		
@IsAccepted	M	MTSS	Indicates whether a narrative is accepted and is used in Change events to unambiguously signal whether support for a narrative has changed, especially ended.	xs: boolean	
Narrative / MaximumSize	O	MTSS	An integer value representing the maximum number of Unicode characters for the narrative, the UTF-8 encoding of which may be longer.	xs: unsignedInt	

#### 4.1.3 SectionMarkInfo

(SIF Implementation Specification 2.4 - 6.7.4)

This object defines the marking periods (TermInfo) that marks (StudentSectionMarks) are recorded in for a particular section (SectionInfo) and lists the types of marks (MarkTypeInfo) that are valid for that marking period (TermInfo).

SIF\_Events are reported for this object.

Element/Attribute	Profile Chart	IA DE Collection/ Element Code	Description	SIF Type	IA DE Business Rules
@SectionInfoRefId	M		The Id (GUID) that uniquely identifies the SectionInfo object that this item refers to.	RefIdType	

Element/Attribute	Profile Chart	IA DE Collection/ Element Code	Description	SIF Type	IA DE Business Rules
@SchoolInfoRefId	M		The Id (GUID) that uniquely identifies the School that these Mark Values apply to.	RefIdType	
TermMarksLists	M	MTSS		ActionList (MarkInfoList/@TermInfoRefId)	
TermMarkLists/MarkInfoList	MR	MTSS	The grading-related information for a section, repeating for each marking period (TermInfo) in which the section reports Marks.	List	
@TermInfoRefId	M	MTSS	The Id (GUID) that identifies the marking period that the following marks are recorded in.	RefIdType	
@SIF_Action	O	MTSS	In a Change event, this flag can be used to indicate an element has been deleted from the parent list container. At a minimum the key for the list must also be present.	Values: Delete	
TermMarkLists/MarkInfoList/MarkInfoRefId	MR	MTSS	The Id (GUID) that identifies a mark that this class uses for grading.	RefIdType	

### Sample XML

```

<SectionMarkInfo SectionInfoRefId="11737E214A7C46BDBA4301CADCA75C87" SchoolInfoRefId="11737EA4301CADCA75C87214A7C46BDB">
  <TermMarkLists>
    <MarkInfoList TermInfoRefId="BDBA4301CA1A7C461737DCA75C87E214">
      <MarkInfoRefId>A7C46BDBA4301CA11737E214DCA75C87</MarkInfoRefId>
    </MarkInfoList>
  </TermMarkLists>
</SectionMarkInfo>

```

```

    <MarkInfoRefId>BA4301CADCA75C8711737E214A7C46BD</MarkInfoRefId>
  </MarkInfoList>
  <MarkInfoList TermInfoRefId="01CA1BDBA43A7C461737DCA75C87E214">
    <MarkInfoRefId>A7C46BDBA4301CA11737E214DCA75C87</MarkInfoRefId>
    <MarkInfoRefId>BA4301CADCA75C8711737E214A7C46BD</MarkInfoRefId>
  </MarkInfoList>
</TermMarkLists>
</SectionMarkInfo>

```

#### 4.1.4 StudentPeriodAttendance

(SIF Implementation Specification 2.4 - 6.7.9)

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.

Element/Attribute	Profile Chart	IA DE Collection/ Element Code	Description	SIF Type	IA DE Business Rules
@RefId	M			RefIdType	
@StudentPersonalRefId	M		The GUID of the student that this attendance applies to.	IdRefType	
@SectionInfoRefId	M		The GUID of the section that this attendance applies to.	IdRefType	
@SchoolInfoRefId	M		The school where the attendance was recorded. Somewhat redundant, needed for requests.	IdRefType	
@Date	M		The date of the attendance event.	xs:date	



Element/Attribute	Profile Chart	IA DE Collection/ Element Code	Description	SIF Type	IA DE Business Rules
TimetablePeriod	C	MTSS	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.	xs:normalizedString	
TimeIn	O	MTSS	The time the student entered or returned to this class.	xs:time	
TimeOut	O	MTSS	The time the student left this class.	xs:time	
AttendanceCode	M	MTSS	The local attendance code	xs:token	
@AttendanceCodeInfoRefId	M			IdRefType	
AuditInfo	M	MTSS	An audit trail to help determine who entered this attendance event and when.		
AuditInfo / CreationUser	M	MTSS	Information about which staff member created this attendance record.		
@Type	M		The role of the staff member for that created this attendance record.	Values: Office Staff School Admin Parent Nurse Teacher Other	

Element/Attribute	Profile Chart	IA DE Collection/ Element Code	Description	SIF Type	IA DE Business Rules
AuditInfo / CreationUser / UserId	M	MTSS	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.	xs:normalizedString	
AuditInfo / CreationDateTime	M	MTSS	The date and time this attendance record was created.	xs:string	

#### 4.1.5 StudentSectionMarks

(SIF Implementation Specification 2.4 - 6.7.10)

This object contains the marks entered for a student in a class section for a specific marking period.

SIF\_Events are reported for this object.

Element/Attribute	Profile Chart	IA DE Collection/ Element Code	Description	SIF Type	IA DE Business Rules
@StudentPersonalRefId	M		The Id (GUID) that uniquely identifies the StudentPersonal object that this item refers to.	RefIdType	
@SectionInfoRefId	M		The Id (GUID) that uniquely identifies the SectionInfo object that this item refers to.	RefIdType	

Element/Attribute	Profile Chart	IA DE Collection/ Element Code	Description	SIF Type	IA DE Business Rules
@TermInfoRefId	M		The Id (GUID) that identifies the marking period that the following marks are recorded in.	RefIdType	
@SchoolInfoRefId	M		The Id (GUID) that uniquely identifies the School that these Mark Values apply to.	RefIdType	
IsFinal	M	MTSS	Indicates if the grades are “Final” from the prospective teacher or school. Does not mean that change events will not occur for this item.	xs: boolean	Districts must have the ability to enable sending interim grades
MarkList	M	MTSS	A list of marks received for this student in this section. For each Mark entry, at least one of the sub-elements must be specified.	List	
MarkList / Mark	MR	MTSS	Outer wrapper for marks reported for this section, in this term.		
@MarkInfoRefId	M	MTSS	The Id (GUID) that identifies a mark that was given for this student.	RefIdType	
MarkList / Mark / Percentage	C	MTSS	The percent scores for this mark (0.00 – 100.00).	xs: decimal xs:minInclusive 0 xs:maxInclusive 100 xs:fractionDigits 2	
MarkList / Mark / Numeric	C	MTSS	The raw numeric score for this mark.	xs: decimal xs:fractionDigits 2	
MarkList / Mark / Letter	C	MTSS	The letter grade for this mark.	xs: NormalizedString	

Element/Attribute	Profile Chart	IA DE Collection/ Element Code	Description	SIF Type	IA DE Business Rules
MarkList / Mark / Narrative	C	MTSS	The free form narrative for this mark.	xs: string	
SIF_ExtendedElements / SIF_ExtendedElement / [ @Name="IA Profile Extensions"]	M			SIF_ExtendedElement	
SIF_ExtendedElement / SectionFinalGrade	M	C0143	The final grade for this section of a course.	xs: token	

## 4.2 – Student Information System Objects

The Student Information Systems Working Group provides maximum interoperability between PK-12 applications that need to exchange SIS information such as student, teacher, school, and enrollment using SIF by designing SIF data objects that are easy to understand, implement and extend, and by making the communication between applications as efficient as possible by ensuring that only the minimum required amount of data is exchanged in each transaction.

### 4.2.1 AttendanceCodeInfo

(SIF Implementation Specification 2.4 - 6.14.1)

This object provides information about a particular attendance code, allows applications to synchronize each other's attendance code tables, or provides a dynamic list of attendance codes.

SIF\_Events are reported for this object.

Element/Attribute	Profile Chart	IA DE Collection/ Element Code	Description	SIF Type	IA DE Business Rules
@RefId	M		The Id (GUID) that uniquely identifies this AttendanceCodeInfo entity.	RefIdType	

Element/Attribute	Profile Chart	IA DE Collection/ Element Code	Description	SIF Type	IA DE Business Rules
@SchoolInfoRefId	M		The Id (GUID) that identifies the school where the attendance code is used.	RefIdType	
AttendanceCode	M	MTSS	Locally defined code for attendance	xs:token	
AttendanceType	M	MTSS	Type of attendance code	<u>values:</u> Absent Tardy EarlyDeparture Partial Present Other	Present will be assumed for any school day that an event is not sent for a student.
AttendanceStatus	M	MTSS	Excused status of the attendance code.	<u>values:</u> Excused Unexcused Unknown NA	
Description	O	MTSS	The text description of the attendance code.	xs:normalizedString	
AbsenceValue	M	MTSS	The amount of absence represented by AttendanceCode, up to three decimal places.	xs:decimal xs:fractionDigits - 3	
UsedForDailyAttendance	M	MTSS	Is this attendance code used for daily attendance?	<u>values:</u> Yes No	
UsedForPeriodAttendance	M	MTSS	Is this attendance code used for period attendance?	<u>values:</u> Yes No	

#### 4.2.17 CalendarDate

(SIF Implementation Specification 2.4 - 6.14.3)

This object defines information related to a school calendar day in a given school calendar year. If both CalendarDate and CalendarSummary objects are supported, there must be an instance of this object for each date between CalendarSummary StartDate and EndDate, inclusive.

SIF\_Events are reported for this object.

Element/Attribute	Profile Chart	IA DE Collection/ Element Code	Description	SIF Type	IA DE Business Rules
@Date	M	MTSS	A specific school day that occurs within the school year	xs:date	
@CalendarSummaryRefId	M	MTSS	The Id (GUID) of the calendar summary in which this calendar date is.	IdRefType	
@SchoolInfoRefId	M	MTSS	The Id (GUID) of the school for which this calendar information is being reported.	IdRefType	
@SchoolYear	M	MTSS	School year for which the information is applicable, expressed as the four-digit year in which the school year ends (e.g., "2024" for the 2023-24 school year).	LocalId	
CalendarDateType	M	MTSS	Calendar date type information.		

Element/Attribute	Profile Chart	IA DE Collection/ Element Code	Description	SIF Type	IA DE Business Rules
CalendarDateType/Code	M	MTSS	Code indicating the type of school day.	union of:  <a href="#">NCES0084CalendarEventType</a>  additional values: INST Instructional School Day MKUP Instructional day that is scheduled solely to make up for emergency days or early dismissal days.	
CalendarDateType/OtherCodeList	O				
CalendarDateNumber	O				
StudentAttendance	M	MTSS			
StudentAttendance/ CountsTowardAttendance	M	MTSS	Designates whether this date should be counted toward student attendance.	values: Yes No	
StudentAttendance/AttendanceValue	M	MTSS	Amount of the school day in which the student should be in attendance (Format is x.x; a student who should be in attendance a full day would be represented as 1.0). If CountsTowardAttendance equals Yes then StudentAttendanceValue must be greater than zero.	0.0 to 1.0	

### 4.2.2 CalendarSummary

(SIF Implementation Specification 2.4 - 6.14.4)

This object provides a summary of a school's calendar information for a given school year. A school may have more than one calendar per school year (e.g., one calendar for Kindergarten students, one for special education students, one for seniors, or one for each calendar track), and each may have different days in session, start and end dates, minutes per day, instructional minutes, etc.

SIF\_Events are reported for this object.

Element/Attribute	Profile Chart	IA DE Collection/ Element Code	Description	SIF Type	IA DE Business Rules
@RefId	M		The Id (GUID) of the calendar to which this information relates.	RefIdType	
@SchoolInfoRefId	M		The Id (GUID) that uniquely identifies the School for which this calendar information is being reported.	RefIdType	
SchoolYear	M		The school year for which this MarkInfo is applicable, expressed as the four-digit year in which the school year ends (e.g. 2024 for the 2023-24 school year).	SchoolYear	
LocalId	M	MTSS K0050 IDEA	The locally assigned identifier for this calendar	LocalId	
Description	M	MTSS K0055 IDEA	Textual description of the school calendar.	xs: string	



Element/Attribute	Profile Chart	IA DE Collection/ Element Code	Description	SIF Type	IA DE Business Rules
DaysInSession	M	MTSS IDEA	The total number of days that the school was or is anticipated to be in session during the school year. Also included are days on which the education institution facility is closed and the student body as a whole is engaged in planned activities off-campus under the guidance and direction of staff members.	xs: unsignedInt	
StartDate	O	MTSS IDEA	The first calendar date, whether or not instruction was provided. If both CalendarSummary and CalendarDate objects are supported, StartDate must be the date of the first chronological instance of CalendarDate for the school's calendar.	xs: date	
EndDate	O	MTSS IDEA	The last calendar date, whether or not instruction was provided. If both CalendarSummary and CalendarDate objects are supported, EndDate must be the date of the last chronological instance of CalendarDate for the school's calendar.	xs: date	
FirstInstructionDate	M	MTSS IDEA	The first day of student instruction.	xs: date	

Element/Attribute	Profile Chart	IA DE Collection/Element Code	Description	SIF Type	IA DE Business Rules
LastInstructionDate	M	MTSS IDEA	The last day of student instruction (including days or times that students are present for purposes of testing and/or evaluation, but not including whole or part-days whose sole purpose is for distribution of report cards).	xs: date	
GraduationDate	O	MTSS	Date of graduation ceremony.	GraduationDate	
InstructionalMinutes	M	MTSS IDEA	The total number of instructional minutes for this calendar for the school year.	xs: unsignedInt	
MinutesPerDay	M	MTSS IDEA	The number of minutes in the day in which the school is normally in session.	xs: unsignedInt	
GradeLevels	M	MTSS IDEA	Collection of grade levels applicable to this school calendar.	GradeLevels	

### 4.2.3 DisciplineIncident

(SIF Implementation Specification 2.4 - 6.14.5)

This object provides information on incidents involving violence, weapons, drugs, and other safety and discipline issues.

SIF\_Events are reported for this object.

Usage:

For Iowa State Reporting, the DisciplineIncident object is used to represent an Incident, with one or more StudentRemoval occurrences conveyed by the complex Extended Element “IA Profile Extensions”. Complex Extended Element, StudentRemoval, allows all the data elements related to a single occurrence of a student removal to maintain their association to each other, and to be repeatable. In addition, these elements allow for Iowa’s state-specific codes. For Iowa MTSS, a combination of regular and extended elements are required to describe an incident event and resulting action taken. Events are expected for this object for Iowa MTSS.

(See XML Example of the DisciplineIncident complex Extended Element “IA Profile Extensions” following the object definition.)

Element/Attribute	Profile Chart	IA DE Collection/ Element Code	Description	SIF Type	IA DE Business Rules
@RefId	M		The Id (GUID) that uniquely identifies this DisciplineIncident.	RefIdType	
@SchoolYear	M		School year in which the incident occurred, and for which the information is applicable, expressed as the four-digit year in which the school year ends (e.g., "2024" for the 2023-24 school year).	SchoolYear	
AgencyReporting	M		The Id (GUID) of the school or LEA reporting the incident, usually the school in which the incident occurred.	IdRefType	
@SIF_RefObject	M		The name of the SIF object to which the GUID relates.	<u>Values:</u> SchoolInfo	
IncidentNumber	M	E0005 MTSS IDEA	The locally-defined unique identifier (within the school or school district) to identify this specific incident or occurrence.	xs:normalizedString	
IncidentDate	M	MTSS IDEA	The date when the incident occurred.	xs:date	
IncidentTime	M	MTSS IDEA	The time when the incident occurred.	xs:time	
IncidentTime /@Type	M		Identifies whether or not the incident occurred during school hours.	SAFETYTimeType	

Element/Attribute	Profile Chart	IA DE Collection/ Element Code	Description	SIF Type	IA DE Business Rules
IncidentLocation	M	MTSS IDEA	The locally-defined identifier or description of the location where the incident occurred.	xs:string	See appendix <a href="#">A.4.2.3-1</a> for code values
IncidentLocation /@Type	M		Identifies where the incident occurred.	NCES1040IncidentLocationType	Vendor default: 9997  Codes don't match with Iowa codes.
IncidentLocationRefId	O	MTSS IDEA	GUID of the SIF object that relates to the school or location where the incident occurred, if applicable	IDRefType	
IncidentLocationRefId / @SIF_RefObject	M	MTSS IDEA	The name of the SIF object to which the GUID relates.	<u>Values:</u> SchoolInfo	
IncidentReporter	M	MTSS IDEA	Information regarding the individual who reported the incident.		
IncidentReporter /@Type	M	MTSS IDEA	Identifies the type of individual who reported the incident.	NCES1043ReporterDescriptionType	Vendor default: 9997  Codes don't match with Iowa codes.
IncidentReporter / Name	M	MTSS IDEA	The name of the individual reporting the incident.	Name	

Element/Attribute	Profile Chart	IA DE Collection/ Element Code	Description	SIF Type	IA DE Business Rules
IncidentReporter / SIF_RefId	O	MTSS IDEA	GUID of the SIF object that relates to the person who reported the incident.	IDRefType	
IncidentReporter / SIF_RefId / @SIF_RefObject	M	MTSS IDEA	The name of the SIF object to which the GUID relates.	<u>Values:</u> StudentPersonal StaffPersonal EmployeePersonal StudentContact	
RelatedToList	O		List of categories to which the incident is related.	List	
RelatedToList / RelatedTo	OR		Identifies if the incident was related to a specific category.	NCES1048SecondaryIncidentBehaviorType	
WeaponTypeList	O		List of weapons involved in the incident. If the incident involves weapons, the element must have a value. Each weapon used in the incident is identified by a WeaponType entry. When multiple weapons of a single type are used, each weapon has a separate entry in this list. Weapons used by individual offenders are also reported in WeaponTypeList entries associated to the offender.	List	Iowa does not use this element.
WeaponTypeList / WeaponType	OR			NCES1045WeaponTypeType	Iowa does not use this element.

Element/Attribute	Profile Chart	IA DE Collection/ Element Code	Description	SIF Type	IA DE Business Rules
IncidentCategory	M		The category or description for this incident.		
IncidentCategory / Code	M		Identifies the type of incident being reported.	NCES1049IncidentCodeType	Vendor default: 9000  Codes don't match with Iowa codes.
IncidentCategory / OtherCodeList	O		List of other codes or strings that crosswalk to or serve as translations of the Code element. If Code changes and OtherCode elements are supported, both Code and all associated OtherCode elements must be present.	OtherCodeList	
IncidentCategory / CodeComment	O	MTSS	A short comment clarifying the discipline code (e.g. for Nonsexual Harassment could detail "Racial comment, pushing, name-calling" or "Cell phone violation. Second offense.")	xs: normalized string	
OffenderList	M	MTSS IDEA	List of offenders.	List	
OffenderList / Offender	MR	MTSS IDEA	Information regarding the offender(s)/perpetrator(s).		

Element/Attribute	Profile Chart	IA DE Collection/ Element Code	Description	SIF Type	IA DE Business Rules
Offender /@Type	M		Identifies the type of offender involved in the incident.	NCES1043ReporterDescriptionType	Vendor default: 9997  Codes don't match with Iowa codes.
OffenderList / Offender / Name	M	MTSS IDEA	The name of the offender.	Name	
OffenderList / Offender / SIF_RefId	C	MTSS IDEA	If the Offender Type attribute identifies the offender as a Student or Staff Member, then this element should contain the Id (GUID) of the student or staff to whom this information relates.	IdRefType	
OffenderList/Offender / @SIF_RefObject	M	MTSS IDEA	SIF Object to which the SIF_RefId relates.	<u>Values:</u> StudentPersonal StaffPersonal EmployeePersonal	
OffenderList / Offender / Injury	O		Identifies whether or not this specific offender was physically injured, and if so, identifies whether the injury was major or minor.	NCES1046IncidentInjuryType	Iowa does not use this element.

Element/Attribute	Profile Chart	IA DE Collection/ Element Code	Description	SIF Type	IA DE Business Rules
OffenderList / Offender / WeaponTypeList	C		List of weapons involved in the incident used by the offender. If the incident involves weapons, the element must have a value. Each weapon used by the offender is identified by a WeaponType entry. When multiple weapons of a single type are used by the offender, each weapon has a separate entry in this list. (Note: All weapons used in the incident are reported in WeaponTypeList entries for the incident, including those weapons related to this offender.)	List	
OffenderList / Offender / WeaponTypeList / WeaponType	OR		Identifies the type of weapon used by the offender during an incident.	NCES1045WeaponTypeType	Iowa does not use this element.
VictimList	C		List of victim(s) if the incident is directed toward specific persons or their property.		
VictimList/Victim	MR		Information regarding the victim(s) in the incident.		
Type	M		Identifies the type of individual victimized in the incident.	<a href="#">NCES1043ReporterDescriptionType</a>	



Element/Attribute	Profile Chart	IA DE Collection/ Element Code	Description	SIF Type	IA DE Business Rules
VictimList/Victim/Name	O		The name of the victim.		
VictimList/Victim/SIF_RefId	M		If the Victim Type attribute identifies the victim as a Student or Staff Member, then this element should contain the Id (GUID) of the student or staff to whom this information relates.		
SIF_RefObject	M		SIF Object to which the SIFRefId relates.	values: StudentPersonal StaffPersonal EmployeePersonal	
VictimList/Victim/Injury	M		Identifies whether or not this specific victim was physically injured, and if so, identify whether the injury was major or minor.		
SIF_ExtendedElements / SIF_ExtendedElement [@Name="IA Profile Extensions"]	M			SIF_ExtendedElement LIST	
SIF_ExtendedElement / StudentRemovals	M		This extended element contains a list of StudentRemovals.	xs: token	
SIF_ExtendedElement / StudentRemovals / StudentRemoval	MR			xs: token	

Element/Attribute	Profile Chart	IA DE Collection/ Element Code	Description	SIF Type	IA DE Business Rules
SIF_ExtendedElement / StudentRemovals / StudentRemoval / StudentPersonalRefId	M	MTSS IDEA		IdRefType	
SIF_ExtendedElement / StudentRemovals / StudentRemoval / ActionTaken	M	E0012 MTSS IDEA	The action taken by school personnel because of the problem behavior.	xs: token	See appendix <a href="#">A.4.2.3-2</a> for code values
SIF_ExtendedElement / StudentRemovals / StudentRemoval / ProblemBehavior	M	E0022 MTSS IDEA	The problem behavior that caused action to be taken.	xs: token	Vendor Default: N  See appendix <a href="#">A.4.2.3-3</a> for code values
SIF_ExtendedElement / StudentRemovals / StudentRemoval / RemovalDuration	C	E0040 MTSS IDEA	Length of the action taken in number of FTE school days.	xs:decimal xs:fractionDigits - 1	1.0 to xxx.9 days Required if ActionTaken is value 1, 2, 3, 4, 5, 6
SIF_ExtendedElement / StudentRemovals / StudentRemoval / RemovalDate	C	E0050 MTSS IDEA	The date the action taken began.	xs: date	Required if ActionTaken is value 1, 2, 3, 4, 5, 6
SIF_ExtendedElement / StudentRemovals / StudentRemoval / WeaponCode	M	E0060 MTSS IDEA	The type of weapon present during or involved in the incident leading to the action taken.	xs: token	Vendor default: N  See appendix <a href="#">A.4.2.3-4</a> for code values

Element/Attribute	Profile Chart	IA DE Collection/ Element Code	Description	SIF Type	IA DE Business Rules
SIF_ExtendedElement / StudentRemovals / StudentRemoval / Motivation	M	MTSS IDEA	Perception of why the student displayed the problem behavior	xs: token	See appendix <a href="#">A.4.2.3-5</a> for code values
SIF_ExtendedElement / StudentRemovals / StudentRemoval / SeclusionRestraint	M	MTSS IDEA	Was the offender restrained and/or put in seclusion after the problem behavior?	xs:token	Vendor default: 0  0: No 1: Restraint 2: Restraint & Seclusion 3: Seclusion
SIF_ExtendedElement / StudentRemovals / StudentRemoval / MajorMinor	M	MTSS IDEA	Is the referral for a major or a minor incident?	xs:token	1: Major 2: Minor
SIF_ExtendedElement / StudentRemovals / StudentRemoval / ExpulsionZeroTolerance	M	E0025 IDEA	Was the expulsion due to a district policy of zero tolerance for this type of behavior?	xs: token	Vendor default: 99  1: Yes 0: No 99: Not applicable

Element/Attribute	Profile Chart	IA DE Collection/ Element Code	Description	SIF Type	IA DE Business Rules
SIF_ExtendedElement / StudentRemovals / StudentRemoval / InstructionalFormat	C	MTSS IDEA	What activity or instructional format was occurring at the time of the problem behavior?	xs: token	Vendor default: 99  Required if IncidentLocation is value 5, 7, 8, 10, 18  See appendix <a href="#">A.4.2.3-6</a> for code values
SIF_ExtendedElement / StudentRemovals / StudentRemoval / Assault	M	E0032 IDEA	Did behavior qualify as assault?	xs: token	Vendor default: 0  1: Yes 0: No
SIF_ExtendedElement / StudentRemovals / StudentRemoval / PropDamage	M	E0034 IDEA	Did behavior result in property damage?	xs: token	Vendor default: 0  1: Yes 0: No
SIF_ExtendedElement / StudentRemovals / StudentRemoval / BodInjury	M	E0036 IDEA	Did behavior result in personal injury?	xs: token	Vendor default: 0  1: Yes 0: No

## DisciplineIncident – XML Example of Extended Element “StudentRemovals”

```
<DisciplineIncident RefId="0A1234FCC1235C7475416D84DE29C09B">
  <SIF_ExtendedElements>
    <SIF_ExtendedElement Name="IA Profile Extensions">
      <StudentRemovals>
        <StudentRemoval>
          <StudentPersonalRefId>3A1234FCC1235C7475416D84DE29C09A</StudentPersonalRefId>
            <ActionTaken>S</ActionTaken>
            <ProblemBehavior>W</ProblemBehavior>
            <RemovalDuration>11.5</RemovalDuration>
            <RemovalDate>03/06/2016</RemovalDate>
            <WeaponCode>K</WeaponCode>
            <UnsafeSchoolChoiceOffense>1</UnsafeSchoolChoiceOffense>
            <Motivation>3</Motivation>
            <SeclusionRestraint>0</SeclusionRestraint>
            <MajorMinor>1</MajorMinor>
            <ExpulsionZeroTolerance>99</ExpulsionZeroTolerance>
              <InstructionalFormat>1</InstructionalFormat>
              <Assault>1</Assault>
              <PropDamage>0</PropDamage>
              <BodInjury>1</BodInjury>
            </StudentRemoval>
          </StudentRemovals>
        </SIF_ExtendedElement>
      </SIF_ExtendedElements>
    </DisciplineIncident>
```

#### 4.2.4 LEAInfo

(SIF Implementation Specification 2.4 - 6.14.6)

This object contains information about a school district or other Local Educational Agency (LEA).

SIF\_Events are reported for this object.

Element/Attribute	Profile Chart	IA DE Collection/ Element Code	Description	SIF Type	IA DE Business Rules
@RefId	M		The Id (GUID) that uniquely identifies this LEA.	RefIdType	
LocalId	M	MTSS IDEA	The locally-assigned identifier for this LEA.	LocalId	
StateProvinceId	M	H0070 SLF MTSS IDEA		StateProvinceId	This should represent the submitting entity
LEAName	M	SLF MTSS IDEA	The LEA Name	LEAName	
PhoneNumberList	O		The LEA's phone number(s)	ActionList (PhoneNumber/ @Type)	
PhoneNumberList / PhoneNumber	MR			[@Type="0096"] (main)	
PhoneNumberList / PhoneNumber / Number	M	MTSS IDEA	Phone number. Free-form, but typical U.S. formats include: <ul style="list-style-type: none"> <li>(###) ###-####</li> <li>###-####</li> </ul>	xs:normalizedString	
AddressList	O		The LEA's address(es)	ActionList (Address/@Type)	

Element/Attribute	Profile Chart	IA DE Collection/ Element Code	Description	SIF Type	IA DE Business Rules
AddressList / Address	MR			[@Type="0765"] (physical location)	
/ AddressList / Address / Street / Line1	M	MTSS IDEA	LEA Street Address	xs:normalizedString	
/ AddressList / Address / Street / Line2	O	MTSS IDEA	LEA Street Address line 2	xs:normalizedString	
AddressList / Address / City	M	MTSS IDEA	LEA City	xs:normalizedString	
AddressList / Address / StateProvince	M	MTSS IDEA	LEA State	StateProvince	
/ AddressList / Address / Country	M		LEA Country	Country	Vendor default: US
AddressList / Address / PostalCode	M	MTSS IDEA	LEA Zip Code	xs:normalizedString	
SIF_ExtendedElements / SIF_ExtendedElement [@Name="IA Profile Extensions"]	M			SIF_ExtendedElement LIST	
SIF_ExtendedElement / SISVersion	M	H0090 MTSS IDEA	The version of the student information system that the user has installed.	xs:normalizedString	

#### 4.2.5 SchoolCourseInfo

(SIF Implementation Specification 2.4 - 6.14.9)

This object is for course information.

SIF\_Events are reported for this object.

### Usage:

The Agent is to provide the values for the SRI elements Institution Providing Section (C0050) and Course Origination (C0120) via the Extended Elements “SectionProvider” and “CourseOrigination”. The values in SectionInfo for “SectionProvider” and “CourseOrigination” will be used as an override where the values in SectionInfo differ from that in SchoolCourseInfo.

Element/Attribute	Profile Chart	IA DE Collection/ Element Code	Description	SIF Type	IA DE Business Rules
@RefId	M		The Id (GUID) that uniquely identifies this school course.	RefIdType	
@SchoolInfoRefId	M		The Id (GUID) that identifies the school where the course is offered.	IdRefType	
@SchoolYear	M	MTSS	School year for which the information is applicable, expressed as the four-digit year in which the school year ends (e.g. 2021 for the 2020-21 school year).	SchoolYear	
CourseCode	M	C0020 MTSS	School-defined local code for the course.	CourseCode	
StateCourseCode	M	C0035	State-defined standard course code used to report information about courses.		Vendor default: 0  This element is used for Iowa element C0035, named “SCED Course Code” in the SRI Data Dictionary. Note that the codeset for the Iowa “SCED Course Code” are state-specific and differ from the codes in the SIF Common element.



Element/Attribute	Profile Chart	IA DE Collection/ Element Code	Description	SIF Type	IA DE Business Rules
SubjectAreaList	M		Subject matter areas.	SubjectAreaList	
SubjectArea	MR		Subject matter.	SubjectArea	
SubjectArea / Code	M			SCEDSecondaryCoursesType/SCE DNonSecondaryCoursesType	
SubjectArea / OtherCodeList	M			OtherCodeList	
OtherCodeList / OtherCode	M	C0040		xs: token	Vendor default: 0  @Codeset="StateProvince" For IA state reporting, the SubjectAreaList will contain a single non-repeatable SubjectArea / OtherCode. This element is used for IA Accreditation Program Area. Required for all scheduled courses.  See appendix <a href="#">A.4.2.5-1</a> for code values
CourseTitle	M	C0010 MTSS	Title of the course.	xs:normalizedString	
SIF_ExtendedElements / SIF_ExtendedElement [@Name="IA Profile Extensions"]	M			SIF_ExtendedElement LIST	

Element/Attribute	Profile Chart	IA DE Collection/ Element Code	Description	SIF Type	IA DE Business Rules
SIF_ExtendedElement / CourseOrigination	M	C0120	Indicates the origination of the course.	xs: token	Vendor default: 1  See Usage Note above for business rule.  See appendix <a href="#">A.4.2.5-2</a> for code values
SIF_ExtendedElement / CommonCourseNumber	O	C0025	The Common Course Number for an Iowa community college credit course.	xs: token xs:maxLength - 6	Three alpha followed by three numeric characters.
SIF_ExtendedElement / SectionProvider	M	C0050	Institution providing the section of the course, e.g. Iowa school district, Iowa accredited nonpublic school, or an out-of-state school, a postsecondary institution.	xs: normalizedString	
SIF_ExtendedElement / HomeroomIndicator	O		Homeroom course flag.	xs: token	Optional element to be used to associate a StaffPersonal with Homeroom.
SIF_ExtendedElement / CreditRecovery	M	C0150	The identification of high school course used as a credit recovery course.	xs: token	Vendor default: 0  1: Yes 0: No

Element/Attribute	Profile Chart	IA DE Collection/ Element Code	Description	SIF Type	IA DE Business Rules
SIF_ExtendedElement / EmbedWBL	M	C0160	What is the predominant Embedded Work-Based Learning experience for the course?	xs:token	Vendor default: 99  1: Speakers 2: Informational Interview 3: Career Immersion Experience 4: Authentic Projects 5: Career-Based Service Learning 6: Interactive Career Event 7: Worksite Exploratory Event 8: Job Shadow 9: Professional Skills Workshops 10: Mock Interviews

#### 4.2.6 SchoolInfo

(SIF Implementation Specification 2.4 - 6.14.10)

This object contains information about the school.

SIF\_Events are reported for this object.

Element/Attribute	Profile Chart	IA DE Collection/ Element Code	Description	SIF Type	IA DE Business Rules
@RefId	M		The Id (GUID) that uniquely identifies this school.	RefIdType	
LocalId	M	MTSS IDEA	The locally-assigned identifier for this school	LocalId	
@LEAInfoRefId	M		The Id (GUID) that references the school district of which this school is a member.	IdRefType	
StateProvinceId	M	K0030 SLF MTSS IDEA	The state-assigned identifier for this school.	StateProvinceId	
SchoolName	M	SLF MTSS IDEA	Name of school.	xs: normalized string	
PhoneNumberList	O		The school's phone number(s)	ActionList (PhoneNumber/ @Type)	
PhoneNumberList / PhoneNumber	MR			[@Type="0096"] (main)	
PhoneNumberList / PhoneNumber / Number	M	MTSS IDEA	Phone number. Free-form, but typical U.S. formats include: <ul style="list-style-type: none"> <li>(###) ###-####</li> <li>###-####</li> </ul>	xs:normalizedString	

Element/Attribute	Profile Chart	IA DE Collection/ Element Code	Description	SIF Type	IA DE Business Rules
AddressList	O		The school's address(es)	ActionList (Address/@Type)	
AddressList / Address	MR			[@Type="0765"] (physical location)	
/ AddressList / Address / Street / Line1	M	MTSS IDEA	School Street Address	xs:normalizedString	
/ AddressList / Address / Street / Line2	O	MTSS IDEA	School Street Address line 2	xs:normalizedString	
AddressList / Address / City	M	MTSS IDEA	School City	xs:normalizedString	
/ AddressList / Address / StateProvince	M	MTSS IDEA	School State	StateProvince	
/ AddressList / Address / Country	M		School Country	Country	Vendor default: US
/ AddressList / Address / PostalCode	M	MTSS IDEA	School Zip Code	xs:normalizedString	
GradeLevels	M	MTSS IDEA	Grade levels offered in the school	List	

#### 4.2.7 SectionInfo

(SIF specification 2.4 - 6.14.11)

This object provides information about the section—the specific time period a session of the course meets.

SIF\_Events are reported for this object.

Element/Attribute	Profile Chart	IA DE Collection/ Element Code	Description	SIF Type	IA DE Business Rules
@RefId	M		The Id (GUID) that uniquely identifies this section entity.	RefIdType	
@SchoolCourseInfoRefId	M		The Id (GUID) that identifies the course being taught in this section.	RefIdType	
@SchoolYear	M	MTSS	School year for which the information is applicable, expressed as the four-digit year in which the school year ends (e.g. 2024 for the 2023-24 school year).	SchoolYear	
LocalId	M	C0022 MTSS	The locally-assigned identifier for this course section.	LocalId	
ScheduleInfoList	M			List	

Element/Attribute	Profile Chart	IA DE Collection/ Element Code	Description	SIF Type	IA DE Business Rules
ScheduleInfoList / ScheduleInfo	MR		The schedule-related information for a section repeating for each term in which the section is scheduled. The TermInfoRefId attribute value should repeat as necessary to show the appropriate relationship between meeting times, teachers and rooms.		
@TermInfoRefId	M	MTSS	The Id (GUID) of the term to which this schedule information relates.	IdRefType	
ScheduleInfoList / ScheduleInfo / TeacherList	M	MTSS		List	
ScheduleInfoList / ScheduleInfo / TeacherList / StaffPersonalRefId	MR	MTSS	The Id (GUID) of the teacher.	IdRefType	StaffPersonalRefId will be used to provide the section teacher folder number
MediumOfInstruction	M		Description of the location in which the section is taught.		
MediumOfInstruction / Code	M		Code representing the location of instruction.	NCES0209MediumOfInstructionType	
MediumOfInstruction / OtherCodeList	M			OtherCodeList	

Element/Attribute	Profile Chart	IA DE Collection/ Element Code	Description	SIF Type	IA DE Business Rules
OtherCodeList / OtherCode	M	C0045			Vendor default: 1  1: Face to face 7: Face to face on college site 2: Internet/online 3: ICN 5: Satellite 6: Other 8: Blended
SectionCode	M	MTSS	Unique identifier of the section for the school year across all courses	xs:normalizedString	
SIF_ExtendedElements / SIF_ExtendedElement [@Name= "IA Profile Extensions"]	M			SIF_ExtendedElement LIST	
SIF_ExtendedElement / SectionProvider	M	C0050	Institution providing the section of the course, e.g. Iowa school district, Iowa accredited nonpublic school, an AEA, or an out-of-state school, a postsecondary institution.	xs:normalizedString	See Usage Note above SchoolCourseInfo for guidance.
SIF_ExtendedElement / SectionSupplementaryFTE	M	C0130	The course section FTE for supplementary weighting. Numeric value less than 1.000 expressed to 3 decimal places.	xs:decimal xs:fractionDigits - 3	Vendor default: 0.000



Element/Attribute	Profile Chart	IA DE Collection/ Element Code	Description	SIF Type	IA DE Business Rules
SIF_ExtendedElement / CourseOrigination	C	C0120	Indicates the origination of the course/ section	xs: token	See Usage Note above SchoolCourseInfo for guidance.  See appendix <a href="#">A.4.2.5-2</a> for code values
SIF_ExtendedElement / PrimaryTeacherStaffPersonalRefId	M	C0055 MTSS	The Id (GUID) of the <i>primary</i> teacher	IdRefType	PrimaryTeacherStaff PersonalRefId will be used to identify the primary teacher for the section.

## 4.2.8 StaffAssignment

(SIF Implementation Specification 2.4 - 6.14.12)

This object defines information related to a staff member's assignment(s); commonly, this will be a school assignment and a JobFunction/Code for Iowa MTSS reporting. Staff members can have multiple types (JobFunction/Code) and multiple school assignments.

SIF\_Events are reported for this object.

Element/Attribute	Profile Chart	IA DE Collection/ Element Code	Description	SIF Type	IA DE Business Rules
@RefId	M		The Id (GUID) that uniquely identifies this staff member's assignment.	RefIdType	
@SchoolInfoRefId	M	MTSS IDEA	The Id (GUID) that identifies the school where the staff member is assigned.	IdRefType	

Element/Attribute	Profile Chart	IA DE Collection/ Element Code	Description	SIF Type	IA DE Business Rules
@SchoolYear	M	MTSS IDEA	School year for which the information is applicable, expressed as the four-digit year in which the school year ends (e.g., 2024 for the 2023-24 school year).	SchoolYear	
@StaffPersonalRefId	M	MTSS IDEA	Id (GUID) of this staff member, as represented in the StaffPersonal object.		
JobStartDate	O	MTSS IDEA	The date from which the staff assignment is valid (inclusive).	xs:date	
JobEndDate	O	MTSS IDEA	The date through which the staff assignment is valid (inclusive).	xs:date	
JobFunction	O	MTSS IDEA	The purpose of the activities as related to students		
JobFunction / Code	M	MTSS IDEA	Code representing the type of job function.	NCES0568FunctionTypeType	Vendor default: 9999
JobFunction / OtherCodeList	O	MTSS IDEA		OtherCodeList	

Element/Attribute	Profile Chart	IA DE Collection/ Element Code	Description	SIF Type	IA DE Business Rules
OtherCodeList / OtherCode	O	MTSS			<p>Required for staff members who need access to:</p> <ul style="list-style-type: none"> <li>● Panorama Student Success</li> <li>● FAST Assessment System</li> <li>● Iowa IDEA Data System</li> </ul> <p>Each staff assignment can have a maximum of one MTSS (1000's) code and multiple FAST (2000's) code.</p> <p>1000: MTSS classroom user  1200: MTSS building user  1300: MTSS district user  1400: MTSS grade-level user</p> <p>2000: FAST classroom user  2200: FAST specialist  2300: FAST school manager  2400: FAST district manager  2500: FAST Non-Public manager  2600: FAST group proctor</p> <p>2290: Access to IDEA data system</p>

#### 4.2.9 StaffPersonal

(SIF Implementation Specification 2.4 - 6.14.13)

This object contains all the personal information relating to a staff member, who might be a teacher or other employee of the school or district.

SIF\_Events are reported for this object.

Element/Attribute	Profile Chart	IA DE Collection/ Element Code	Description	SIF Type	IA DE Business Rules
@RefId	M		The Id (GUID) that uniquely identifies this staff member.	RefIdType	
LocalId	M	MTSS IDEA	The locally-assigned identifier for this staff member.	LocalId	
StateProvinceId	C	C0055 MTSS IDEA	The state-assigned identifier for this staff member	StateProvinceId	
Name	M		Name of the staff member. Note: Type value of 04 must be used here.	NameOfRecordType	
Name / LastName	M	MTSS IDEA	The last name.	LastName [@Type="04"]	
Name / FirstName	M	MTSS IDEA	The first name	FirstName [@Type="04"]	
Demographics/Gender	O		Person's gender	Gender	
EmailList	M		A list of email addresses associated with an individual	ActionList (Email/@Type)	
EmailList / Email	MR	MTSS IDEA	An email address	Xs:normalizedString [@Type="Primary"]	

#### 4.2.10 StudentAttendanceSummary

(SIF Implementation Specification 2.4 - 6.14.16)

This object provides a summary of a student's daily attendance and membership information for a given school during the time period between the StartDate and EndDate, inclusive. As such, there may be multiple instances of this object for a student in a school over the course of a school year or reporting period.

Object needs to be sent even when StartDate = EndDate for accurate attendance and absence rate calculations.

Element/Attribute	Profile Chart	IA DE Collection/ Element Code	Description	SIF Type	IA DE Business Rules
@StudentPersonalRefId	M		The Id (GUID) of the student for whom this attendance information is being reported.	RefIdType	
@SchoolInfoRefId	M		The Id (GUID) of the school for which this attendance information is being reported.	RefIdType	
@SchoolYear	M			SchoolYear	
StartDate	M	MTSS IDEA	The starting date on which the information in this object instance is applicable.	xs:date	
StartDay	M	MTSS IDEA	Number of the first school day to which this object instance applies.		
EndDate	M	MTSS IDEA	The ending date on which the information in this object instance is applicable.	xs:date	
EndDay	M	MTSS IDEA	Number of the last school day to which this object instance applies.		
Resident	M	MTSS IDEA	<p>An indication as to whether or not the student's legal residence was within the boundaries of the school during the time between the StartDate and EndDate, inclusive.</p> <p>Note: No SIF_Query SIF_Condition support is required for this element.</p>	<u>values:</u> Yes No Unknown	

Element/Attribute	Profile Chart	IA DE Collection/ Element Code	Description	SIF Type	IA DE Business Rules
DaysAttended	M	D0510 MTSS IDEA	The number of days the student attended school when school was in session between the StartDate and EndDate, inclusive. Note: No SIF_Query SIF_Condition support is required for this element.	xs:decimal xs:fractionDigits - 2	
ExcusedAbsences	M	MTSS IDEA	The number of days the student was absent from school with a valid excuse when school was in session between the StartDate and EndDate, inclusive.  Note: No SIF_Query SIF_Condition support is required for this element.	xs:decimal xs:fractionDigits - 2	
UnexcusedAbsences	M	MTSS IDEA	The number of days the student was absent from school without a valid excuse when school was in session between the StartDate and EndDate, inclusive.  Note: No SIF_Query SIF_Condition support is required for this element.	xs:decimal xs:fractionDigits - 2	This element is not cumulative, e.g. two half days of unexcused absences does not equate to 1 day of unexcused absence.
DaysInMembership	M	D0500 MTSS IDEA	The number of days the student was present plus the number of days the student was absent when school was in session during the period between the StartDate and EndDate, inclusive.  Note: No SIF_Query SIF_Condition support is required for this element.	xs:decimal xs:fractionDigits - 2	

Element/Attribute	Profile Chart	IA DE Collection/ Element Code	Description	SIF Type	IA DE Business Rules
StudentSchoolEnrollmentRefId	M	MTSS IDEA	RefId (GUID) of the StudentSchoolEnrollment object instance that corresponds to this object instance.	IdRefType	

#### 4.2.11 StudentContact

(SIF Implementation Specification 2.4 - 6.14.17)

This object contains information regarding a contact person for a student. Note: At least one of the child elements of ContactFlags must have a Yes value. Do not publish the StudentContact instance if one of the child elements does not have a Yes value.

SIF\_Events are reported for this object.

Element/Attribute	Profile Chart	IA DE Collection / Element Code	Description	SIF Type	IA DE Business Rules
@RefId	M		The Id (GUID) that uniquely identifies this contact.	RefIdType	
@StudentPersonalRefId	M		The Id (GUID) of the student whose contact this is.	RefIdType	
LocalId	O	IDEA	The locally-assigned identifier for this contact. Note: LocalId may be used as a unique person identifier rather than a unique contact identifier. In this case, there may be more than one StudentContact instance with the same LocalId.	LocalId	
OtherIdList	O	IDEA	Lists all “other” identifiers associated with the contact.	List	
OtherIdList / OtherId	MR	IDEA	Lists an “other” identifier associated with the contact.	xs: normalizedString	

Element/Attribute	Profile Chart	IA DE Collection / Element Code	Description	SIF Type	IA DE Business Rules
@Type	M	IDEA	Code that defines the type of this other Id.	NCES0147IdentificationSystemType  <u>Subset:</u> 0328 0164 0339 9999 0222 0154 0399 0004 0113 5013	
Name	M	IDEA	The name of the contact. Note: Type attribute value of 04 must be used here	NameOfRecordType	
OtherNames	O	IDEA	Previous, alternate or other names or aliases associated with the contact.	OtherNames	
Demographics	O	IDEA	Demographic information about the contact.	Demographics	
AddressList	M	IDEA	The contact's address(es).	AddressList	
PhoneNumberList	M	IDEA	The contact's phone number(s).	PhoneNumberList	PhoneNumberType="0096"
EmailList	M	IDEA	The contact's email address(es).	EmailList	
Relationship	M	IDEA	Defines the relationship of the contact to the student.	Relationship	
EmployerType	O		Code that defines the employer type.	NCES0614EmployerType	Not used by Iowa. Please do not send.



Element/Attribute	Profile Chart	IA DE Collection / Element Code	Description	SIF Type	IA DE Business Rules
EducationalLevel	O		The highest level of education completed by the contact person.	EducationalLevel	Not used by Iowa. Please do not send.
ContactFlags	M	IDEA	Contains Yes/No characteristics of the contact person's role. Provide a Yes value for all that apply. At least one of the child elements for ContactFlags must have a Yes value. Do not publish the StudentContact instance if one or the child elements does not have a Yes value.		
ContactFlags / ParentLegalGuardian	C	IDEA	Does the individual have parental or legal guardianship responsibility for the student?	<u>values:</u> Yes No Unknown	
ContactFlags / PickupRights	C	IDEA	This element tells whether or not the contact has pickup rights.	<u>values:</u> Yes No Unknown	
ContactFlags / LivesWith	C	IDEA	Does the student live with this contact?	<u>values:</u> Yes No Unknown	
ContactFlags / AccessToRecords	C	IDEA	Does this contact have access to the student's records?	<u>values:</u> Yes No Unknown	
ContactFlags / EmergencyContact	C	IDEA	Should this contact be notified in case of emergency?	<u>values:</u> Yes No Unknown	

Element/Attribute	Profile Chart	IA DE Collection / Element Code	Description	SIF Type	IA DE Business Rules
ContactFlags / HasCustody	C	IDEA	Does this contact have or share custody of the student?	<u>values:</u> Yes No Unknown	
ContactFlags / DisciplinaryContact	C	IDEA	Is this person to be contacted in case of disciplinary action?	<u>values:</u> Yes No Unknown	
ContactFlags / PrimaryCareProvider	C	IDEA	Does this person provide daily living or personal assistance to the student?	<u>values:</u> Yes No Unknown	
ContactSequence	O	IDEA	Number indicating the order in which the person should be contacted.	xs: unsignedInt	
SIF_ExtendedElement/ IEPParentAccess	M	IDEA	The type of access the contact can have in ACHIEVE	xs:token xs:maxLength-1 xs:minLength-1	Vendor default: 0  0: No access 1: Decision making 2: Review only 3: Restricted

#### 4.2.12 StudentDailyAttendance

(SIF Implementation Specification 2.4 - 6.14.20)

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.

Element/Attribute	Profile Chart	IA DE Collection/ Element Code	Description	SIF Type	IA DE Business Rules
@StudentPersonalRefId	M		The Id (GUID) of the student for whom this attendance information is being reported.	RefIdType	
@SchoolInfoRefId	M		The Id (GUID) of the school for which this attendance information is being reported.	RefIdType	
@Date	M		The calendar date to which this attendance information relates.	xs:date	
@SchoolYear	M		School year for which this enrollment is applicable, expressed as the four-digit year in which the school year ends (e.g. 2024 for the 2023-24 school year).	SchoolYear	
AttendanceCodeRefId	M		The Id (GUID) of the locally-defined daily attendance code information.	RefIdType	
TimeIn	O	MTSS	The time the student entered or returned to school.	xs:time	
TimeOut	O	MTSS	The time the student left school.	xs:time	
AttendanceNote	O	MTSS	Note related to this particular attendance.	xs:normalizedString	

#### 4.2.13 StudentPersonal

(SIF Implementation Specification 2.4 - 6.14.21)

This object contains information about a student. There will be one object per student.

SIF\_Events are reported for this object.

Element/Attribute	Profile Chart	IA DE Collection/ Element Code	Description	SIF Type	IA DE Business Rules
@RefId	M		The Id (GUID) that uniquely identifies this student.	RefIdType	
LocalId	M	D0010 SLF MTSS IDEA	The locally-assigned identifier for this student.	LocalId	
StateProvinceId	C	K0020 SLF MTSS IDEA	The state-assigned identifier for this student.	StateProvinceId	Mandatory for SRI and MTSS.
OtherIdList	O		Lists all "other" identifiers associated with the student.	List	
OtherIdList / OtherId	MR	SLF	Lists an "other" identifier associated with the student.	xs:normalizedString [@Type="0004"]	Social Security Number is used in Uniq-ID
Name	M		Name of the student. Note: Type value of 04 must be used here.	NameOfRecordType	
Name / LastName	M	D0080 SLF MTSS IDEA	The last name of the student.	LastName [@Type="04"]	Student's preferred last name.

Element/Attribute	Profile Chart	IA DE Collection/ Element Code	Description	SIF Type	IA DE Business Rules
Name / MiddleName	O	MTSS IDEA	The middle name of the student.	MiddleName [@Type="04"]	Student's preferred middle name.
Name / FirstName	M	D0060 SLF MTSS IDEA	The first name of the student.	FirstName [@Type="04"]	Student's preferred first name.
Name / Suffix	O		Generation of suffix like II, Jr., etc.	xs: normalizedString [@Type="04"]	Student's preferred suffix.
Demographics	M		Demographics information about the student, contact, staff member, etc. This element occurs within objects such as StudentPersonal, StudentContact, etc.	Demographics	
Demographics / RaceList	M			List	
Race	MR				

Element/Attribute	Profile Chart	IA DE Collection/ Element Code	Description	SIF Type	IA DE Business Rules
Race / Code	M	D0043 D0044 D0045 D0046 D0047	The general racial category which reflects the individual's recognition of his or her community or with which the individual most identifies. In a given SIF implementation Agents must have alignment on the use of the NCES and deprecated SPEEDE code sets. Agents are not required to translate between the code sets.	<u>Union of:</u> NCES0849RaceType Additional values: A Asian (deprecated) H Hispanic (deprecated)	1: Yes 0: No
Race / OtherCodeList	M			OtherCodeList	
OtherCode	M	SLF MTSS IDEA			[@Codeset="StateProvince"] Required for Uniq-ID ("Race/Ethnicity_StateID").  See appendix <a href="#">A.4.2.13-1</a> for code values

Element/Attribute	Profile Chart	IA DE Collection/ Element Code	Description	SIF Type	IA DE Business Rules
Demographics / HispanicLatino	M	D0042	An indication that the individual traces his or her origin or descent to Mexico, Puerto Rico, Cuba, Central or South America, or other Spanish cultures, regardless of race.		
Demographics / Gender	O		The person's gender.	Gender	replace with SIF_ExtendedElement/Gender (see below)
Demographics / BirthDate	M	D0020 SLF MTSS IDEA	The person's date of birth.	BirthDate	
Demographics / LanguageList	M		List of languages an individual uses to communicate.	LanguageList	
Language	MR				
Language / Code	M		The code representing the specific language that an individual uses to communicate.	NISOZ3953LanguageCodes Type	IA uses the ISO 639.2 language codes, SIF uses the NISO Z39.53 codes

Element/Attribute	Profile Chart	IA DE Collection/ Element Code	Description	SIF Type	IA DE Business Rules
Language / OtherCodeList	M			OtherCodeList	
OtherCodeList / OtherCode	M	D0410 MTSS IDEA		xs:token	Vendor default: eng  [@Codeset="StateProvince"]  See appendix <a href="#">A.4.2.13-2</a> for code values
ProjectedGraduationYear	O	MTSS	Currently projected graduation year	ProjectedGraduationYear (CCYY)	
Immigrant	M	D0330 MTSS	Does the student meet the State criteria for classification as being an immigrant?		
FirstUSEnrollment	O	D0490	The date on which the student was first enrolled in the US school system.	xs:date	
SIF_ExtendedElements / SIF_ExtendedElement [@Name= "IA Profile Extensions"]	M			SIF_ExtendedElement LIST	



Element/Attribute	Profile Chart	IA DE Collection/ Element Code	Description	SIF Type	IA DE Business Rules
SIF_ExtendedElement / ExcludeFromStateReporting	M	MTSS	'Yes' if SIS indicates to exclude record from state reporting.		Values: Yes, No  Do not exclude any records, only mark them with Yes or No.
SIF_ExtendedElement / LegalLastName	M	SLF IDEA	Legal last name of the student.	xs: token	
SIF_ExtendedElement / LegalMiddleName	O	SLF IDEA	Legal middle name of the student.	xs: token	
SIF_ExtendedElement / LegalFirstName	M	SLF IDEA	Legal first name of the student.	xs: token	
SIF_ExtendedElement / LegalSuffix	O	SLF IDEA	Legal suffix of the student.	xs: token	
SIF_ExtendedElement/IAGender	M	D0050 SLF MTSS IDEA	Gender of student	xs: token	F: Female M: Male X: Non-binary

#### 4.2.14 StudentSchoolEnrollment

(SIF Implementation Specification 2.4 - 6.14.23)

This object defines information related to a student's enrollment. StudentSchoolEnrollment instances must not span multiple school years.

SIF\_Events are reported for this object.

Element/Attribute	Profile Chart	IA DE Collection/ Element Code	Description	SIF Type	IA DE Business Rules
@RefId	M		The Id (GUID) that uniquely identifies this enrollment.	RefIdType	
@StudentPersonalRefId	M		The Id (GUID) of the student to whom this information is linked.	IdRefType	
@SchoolInfoRefId	M		The Id (GUID) of the school to which this enrollment applies.	IdRefType	
@MembershipType	M	MTSS IDEA	The type of this enrollment as it relates to the school identified in SchoolInfoRefId.	<u>values:</u> <b>Home</b> = school responsible for reporting the student's membership/child accounting information <b>Concurrent</b> = school not the primary reporting unit for the student's membership/child accounting information <b>Summer</b> = summer school enrollment, not part of the regular school year	

Element/Attribute	Profile Chart	IA DE Collection/ Element Code	Description	SIF Type	IA DE Business Rules
@TimeFrame	M	MTSS IDEA	The timeframe of the enrollment based on the SIF_Date in the SIF_Header of the message. For events, it is determined as of the date the event is generated. For requests and responses, it is calculated based on the date of the request.	<u>Values:</u> <b>Current</b> = Event/request date falls between EntryDate and ExitDate (inclusive) <b>Historical</b> = Event/request date falls after ExitDate <b>Future</b> = Event/request date falls before EntryDate	
@SchoolYear	M	MTSS SLF IDEA	School year for which this enrollment is applicable, expressed as the four-digit year in which the school year ends (e.g. 2021 for the 2020-21 school year). StudentSchoolEnrollment instances must not span multiple school years.	SchoolYear	
EntryDate	M	D0185 MTSS IDEA	The date from when this enrollment is valid.	xs:date	Also used to calculate Enrollment Record Sequence (E0130) for SRI (Iowa DE calculation)
EntryType	M				
EntryType / Code	M		Code indicating the type of entry for this enrollment	NCES0619EntryTypeType	Vendor default: 9999
EntryType / OtherCodeList	M			OtherCodeList	

Element/Attribute	Profile Chart	IA DE Collection/ Element Code	Description	SIF Type	IA DE Business Rules
OtherCodeList / OtherCode	M	D0180 SLF MTSS IDEA		xs:token	[@Codeset="StateProvince"]  See Appendix <a href="#">A.4.2.14-1</a> for code values
GradeLevel	M		Grade or academic level of student for this enrollment.	GradeLevel	
GradeLevel / Code	M	D0030 SLF MTSS IDEA	Code representing the grade level.		See Appendix <a href="#">A.4.2.14-2</a> for code values
Advisor	M	D0055	Staff member assigned as an advisor for this enrollment.	IdRefType	
@SIF_RefObject	M		The name of the object referenced.	Values: StaffPersonal	Reference to StaffPersonal object to determine D0055
ExitDate	C	D0220 MTSS IDEA	The last school calendar day of this enrollment. If the student has exited the school or the enrollment has a RecordClosureReason, ExitDate must have a value.	xs:date	Also used to calculate Enrollment Record Sequence (E0130) for SRI (Iowa DE calculation)
ExitType	C				Required if ExitDate is populated.
ExitType / Code	M		Code indicating the type of exit for this enrollment.	NCES0644ExitWithdrawalType	Vendor default: 9999
OtherCodeList	M			OtherCodeList	

Element/Attribute	Profile Chart	IA DE Collection/ Element Code	Description	SIF Type	IA DE Business Rules
OtherCodeList / OtherCode	M	D0190 MTSS IDEA		xs:token	[@Codeset="StateProvince"]  See Appendix <a href="#">A.4.2.14-3</a> for code values
FTE	M	D0495 MTSS IDEA	Full-time equivalent numeric value of the student's course load during this enrollment, expressed in decimal form, where 1.00 represents a full-time enrollment.	xs:decimal xs:minInclusive - 0 xs:maxInclusive - 1 xs:fractionDigits - 2	Vendor default: 1.00
SIF_ExtendedElements / SIF_ExtendedElement [@Name= "IA Profile Extensions"]	M			SIF_ExtendedElement LIST	
SIF_ExtendedElement / AttendingDistrict	M	MTSS SLF IDEA	State assigned ID of the district where the student is counted for attendance purposes	xs:token	
SIF_ExtendedElement / CPIDualEnrollment	M	D0244 MTSS IDEA	Type of activities the parent of a home school student is requesting.	xs:token	Vendor default: 99  1: Academic activities 2: Extra-curricular activities 3: Both academic and extra-curricular activities 4: Testing only 5: Special education support services only 99: Not applicable

Element/Attribute	Profile Chart	IA DE Collection/ Element Code	Description	SIF Type	IA DE Business Rules
SIF_ExtendedElement / ResDistrict	M	D0200 SLF MTSS IDEA	State assigned code of the district where the student is making a home	xs:token	See appendix <a href="#">A.4.2.14-4</a> for code values
SIF_ExtendedElement /ResCounty	M	D0215 MTSS IDEA	State assigned county in which the student resides; 2-digit county code	xs:token	See appendix <a href="#">A.4.2.14-5</a> for code values
SIF_ExtendedElement / AccountableDistrict	O	D0207 MTSS IDEA	State assigned code of public district where the student has primary enrollment		See appendix <a href="#">A.4.2.14-8</a> for code values
SIF_ExtendedElement /FosterCare	M	D0230 MTSS IDEA	Is the student in foster care?	xs:token	Vendor default: 0  1: Yes, and would not live in the current resident district if not in foster care 2: Yes, and would live in the current resident district if not in foster care 0: No
SIF_ExtendedElement /SvcProviderOrFacility	O	D0217 MTSS IDEA	The Department of Education code for the facility in which the student resides or the location where the student receives the majority of his / her educational services; 2, 6 or 8 digit code for the Service Provider or Residential Facility.	xs:token	Alpha 2-digit code for a state other than Iowa, 6-digit IPEDS code for community college, assigned 8-digit code for other facilities.

Element/Attribute	Profile Chart	IA DE Collection/ Element Code	Description	SIF Type	IA DE Business Rules
SIF_ExtendedElement /SvcOrFacilityType	M	D0218 MTSS IDEA	Identifies the type of service students are receiving from selected providers.	xs:token	Vendor default: 99  See appendix <a href="#">A.4.2.14-6</a> for code values
SIF_ExtendedElement / ReceivingEduServices	M	D0228 MTSS IDEA	Is the expelled IEP student receiving educational services from the district?	xs:token	Vendor default: 99  1: Yes 0: No 99: Not applicable
SIF_ExtendedElement / DestinationCode	M	D0224 MTSS IDEA	The type of destination location.	xs:token	Vendor default: 99  See appendix <a href="#">A.4.2.14-7</a> for code values
SIF_ExtendedElement / DestinationLocation	O	D0225 MTSS IDEA	State assigned code for the specific destination; 2-char or 8-digit code.	xs:token	Use 2-char alpha code for non-Iowa states  See appendix <a href="#">A.4.2.14-8</a> for code values
SIF_ExtendedElement / EnrollmentRecordSequence Num	M	E0130 IDEA	Sequential numeric order of the enrollment record within the student's enrollment history	xs:decimal	
SIF_ExtendedElement / NonpublicSchoolNumber	O	K0040 MTSS IDEA	State assigned code of the nonpublic school where the student has his / her primary enrollment; eight numeric characters	xs:token	

Element/Attribute	Profile Chart	IA DE Collection/ Element Code	Description	SIF Type	IA DE Business Rules
SIF_ExtendedElement / PreschoolAttendance	M	D0780 IDEA	Did the Kindergarten student attend preschool within the 12 months prior to kindergarten entry?	xs:token	Vendor default: 99  1: Yes 0: No 99: Not applicable
SIF_ExtendedElement / Title1Reading	M	D0250 MTSS IDEA	Did the student participate in a Title I Targeted Assistance Reading program at anytime during the year?	xs:token	Vendor default: 0  1: Yes 0: No
SIF_ExtendedElement / Title1Math	M	D0252 IDEA	Did the student participate in a Title I Targeted Assistance Mathematics program at anytime during the year?	xs:token	Vendor default: 0  1: Yes 0: No
SIF_ExtendedElement / FreeLunch	M	D0270 MTSS IDEA	Does the student meet income guidelines for free lunch at the time of submission?	xs:token	Vendor default: 0  1: Yes 0: No
SIF_ExtendedElement / ReducedLunch	M	D0280 MTSS IDEA	Does the student meet income guidelines for reduced-price lunch at the time of submission?	xs:token	Vendor default: 0  1: Yes 0: No
SIF_ExtendedElement / CEIS	M	D0760 MTSS IDEA	Did the student receive Coordinated Early Intervening Services (CEIS) funded by IDEA Part B during the current year?	xs:token	Vendor default: 0  1: Yes, and funded by the LEA 2: Yes, and funded by the AEA 3: Yes, and funded by both the LEA and AEA 0: No



Element/Attribute	Profile Chart	IA DE Collection/ Element Code	Description	SIF Type	IA DE Business Rules
SIF_ExtendedElement / HomelessType	M	D0340 MTSS IDEA	If a student was homeless at some time during the year, what was the type of primary nighttime residence during the period of time the student was homeless?	xs:token	Vendor default: 99  1: Sheltered/transitionally housed 2: Doubled-up 3: Unsheltered 6: Hotel/motel 99: Not applicable
SIF_ExtendedElement / UnaccompaniedYouth	M	D0341	Is the homeless student considered to be an unaccompanied youth?	xs:token	Vendor default: 99  1: Yes 0: No 99: Not applicable
SIF_ExtendedElement / HomelessMcKinneyVentoServed	M	D0800	Was the homeless student served through McKinney-Vento funds at any time during the school year?	xs:token	Vendor default: 99  1: Yes 0: No 99: Not applicable
SIF_ExtendedElement / ELLStatus	M	D0420 MTSS IDEA	Current EL status of the student	xs:token	Vendor default: 99  See appendix <a href="#">A.4.2.14-9</a> for code values
SIF_ExtendedElement / LIEPPlacementDate	O	D0460 IDEA	Most recent date a student was placed in the district's LIEP program or began receiving LIEP services.	xs:date	
SIF_ExtendedElement / LIEPExitDate	O	D0465 IDEA	Date student was classified as EL Status 4 (Exited)	xs:date	

Element/Attribute	Profile Chart	IA DE Collection/ Element Code	Description	SIF Type	IA DE Business Rules
SIF_ExtendedElement / LIEPWaivedDate	O	D0425 IDEA	Date the parent waived the student's LIEP services	xs:date	
SIF_ExtendedElement / LIEPInstructionalProgram	M	D0470 IDEA	The instructional program of a current EL student.	xs:token	Vendor default: 99  1: Dual language program 10: Other bilingual program 14: Newcomer program 15: Sheltered instruction 16: English as a second language 99: Not applicable
SIF_ExtendedElement / PKHeadStartFunded	M	D0821 MTSS IDEA	Is the PK student funded by Head Start?	xs:token	Vendor default: 0  1: Yes 0: No
SIF_ExtendedElement / PKSharedVisionsFunded	M	D0822 MTSS IDEA	Is the PK student funded by Shared Visions?	xs:token	Vendor default: 0  1: Yes 0: No
SIF_ExtendedElement / PKECIFunded	M	D0823 MTSS IDEA	Is the PK student funded by ECI?	xs:token	Vendor default: 0  1: Yes 0: No
SIF_ExtendedElement / PKParentFunded	M	D0824 MTSS IDEA	Is the PK student funded by his / her parent?	xs:token	Vendor default: 0  1: Yes 0: No

Element/Attribute	Profile Chart	IA DE Collection/ Element Code	Description	SIF Type	IA DE Business Rules
SIF_ExtendedElement / PKTitle1Funded	M	D0825 MTSS IDEA	Is the PK student funded by Title 1?	xs:token	Vendor default: 0 1: Yes 0: No
SIF_ExtendedElement / PKSWVPPFunded	M	D0826 MTSS IDEA	Is the PK student funded by the State Wide Voluntary Preschool Program (SWVPP)?	xs:token	Vendor default: 0 1: Yes 0: No
SIF_ExtendedElement / PKFundedByOther	M	D0827 MTSS IDEA	Is the PK student funded by the other sources such as private business?	xs:token	Vendor default: 0 1: Yes 0: No
SIF_ExtendedElement / PreschoolProgram1Type	M	D0834 MTSS IDEA	Type of program for the student served in a preschool classroom.	xs:token	Vendor default: 99 3: SWVPP 4: Preschool – Not SWVPP 5: Early childhood special education classroom 99: Not applicable
SIF_ExtendedElement / PreschoolProgram1Hours	M	D0836 IDEA	Number of hours per week the student is attending Preschool Program 1.	xs:decimal xs:fractionDigits - 1	Vendor default: 0.0
SIF_ExtendedElement / PreschoolProgram1Session	O	D0838 IDEA	The assigned code for this preschool session.	xs:token	

Element/Attribute	Profile Chart	IA DE Collection/ Element Code	Description	SIF Type	IA DE Business Rules
SIF_ExtendedElement / PreschoolProgram2Type	M	D0835 MTSS IDEA	Type of program for the student served in a second preschool classroom, if applicable.	xs:token	Vendor default: 99  3: SWVPP 4: Preschool – Not SWVPP 5: Early childhood special education classroom 99: Not applicable
SIF_ExtendedElement / PreschoolProgram2Hours	M	D0837 IDEA	Number of hours per week the student is attending Preschool Program 2.	xs:decimal xs:fractionDigits - 1	Vendor default: 0.0
SIF_ExtendedElement / PreschoolProgram2Session	O	D0839 IDEA	The assigned code for this preschool session.	xs:token	
SIF_ExtendedElement / Section504	M	D0300 MTSS IDEA	Does the student have a 504 plan?	xs:token	Vendor default: 0  1: Yes 0: No
SIF_ExtendedElement / GiftedTalented	M	D0310 MTSS IDEA	Has the student been identified as gifted/talented at any time during the current school year?	xs:token	Vendor default: 0  1: Yes 0: No
SIF_ExtendedElement / IEPLLevel	M	D0296 MTSS IDEA	Code indicating the current IEP level for special education weighting	xs:token	Vendor default: 99  1: Level I 2: Level II 3: Level III 0: Support services only 99: Not applicable

Element/Attribute	Profile Chart	IA DE Collection/ Element Code	Description	SIF Type	IA DE Business Rules
SIF_ExtendedElement / IEPPlacementDate	O	D0292 MTSS IDEA	The most recent IEP placement date.	xs:date	Required for students with an IEP.
SIF_ExtendedElement / IEPStaffedOutDate	O	D0294 MTSS IDEA	The most recent IEP staff out date.	xs:date	Required for students with an IEP who were staffed out at any time during the current school year.
SIF_ExtendedElement / CEDSEntryType	M	D0175 SLF	Code indicating the type of entry for this enrollment.	CEDS EntryType code – same values as SIF / NCES0619 EntryType but with leading zeros.	Left-pad leading zero to 5 chars if SIS stores 4 char NCES / SIF codes.
SIF_ExtendedElement / JuniorSeniorRule	M	D0187 IDEA	Is the student enrolled under the Junior Senior Rule?	xs:token	Vendor default: 0  1: Yes 0: No
SIF_ExtendedElement/MilitaryConnect	M	D0095 IDEA	Are any of the student's parents or guardians on active military duty at the time of submission?	xs:token	Vendor default: 0  1: Yes 0: No
SIF_ExtendedElement / DiplomaType	M	D0550 IDEA	Did the student receive a district diploma by meeting a set of board-approved graduation requirements/credits?	xs:token	Vendor default: 99  1: Yes 0: No 99: Not applicable
SIF_ExtendedElement / PostGradLocation	M	D0560 IDEA	The graduate's intended post-graduation location.	xs:token	Vendor default: 99  1: In-state 2: Out of state 99: Not applicable

Element/Attribute	Profile Chart	IA DE Collection/ Element Code	Description	SIF Type	IA DE Business Rules
SIF_ExtendedElement / PostGradPlan	M	D0570 IDEA	The graduate's intended post-graduation plan.	xs:token	Vendor default: 99  1: 4 year private college 2: 4 year public college 3: Community college 4: 2 year private college 5: Other postsecondary 6: Employment 8: Active military 9: Unknown 10. Apprenticeship 11. Internship 99: Not applicable
SIF_ExtendedElement / ExtracurricularActivities	M	D0555 IDEA	Did student participate in extracurricular activities at any time while in grades 9-12?	xs:token	Vendor default: 99  1: Yes 0: No 99: Not applicable
SIF_ExtendedElement / PayingJob	M	D0557 IDEA	Did student have paying job at any time while in grades 9-12?	xs:token	Vendor default: 99  1: Yes 0: No 99: Not applicable
SIF_ExtendedElement / BilitLang2	O	D0571	Language (other than English) that student is fluent in reading, writing, speaking, and listening	xs:token	See appendix A.4.2.14-10 for code values

Element/Attribute	Profile Chart	IA DE Collection/ Element Code	Description	SIF Type	IA DE Business Rules
SIF_ExtendedElement / BilitLang3	O	D0572	Language (other than English) that student is fluent in reading, writing, speaking, and listening	xs:token	See appendix A.4.2.14-10 for code values
SIF_ExtendedElement / RNSReadingScore	M	D0752 IDEA	What was the reason no state reading assessment score will be reported for this student?	xs:token	Vendor default: 99  1: Invalid results / problem with testing 2: Excluded due to parental decision 3: Absent during testing 5: Medical emergency 6: Transfer in student, already tested 99: Not applicable
SIF_ExtendedElement / RNSMathScore	M	D0754 IDEA	What was the reason no state math assessment score will be reported for this student?	xs:token	Vendor default: 99  1: Invalid results / problem with testing 2: Excluded due to parental decision 3: Absent during testing 5: Medical emergency 6: Transfer in student, already tested 99: Not applicable

Element/Attribute	Profile Chart	IA DE Collection/ Element Code	Description	SIF Type	IA DE Business Rules
SIF_ExtendedElement / RNSScienceScore	M	D0756 IDEA	What was the reason no state science assessment score will be reported for this student?	xs:token	Vendor default: 99  1: Invalid results / problem with testing 2: Excluded due to parental decision 3: Absent during testing 5: Medical emergency 6: Transfer in student, already tested 7: DLM not offered in this grade 99: Not applicable
SIF_ExtendedElement / ExcludeFromStateReporting	M	MTSS	'Yes' if SIS indicates to exclude record from state reporting.		Values: Yes, No  Do not exclude any records, only mark them with Yes or No.
SIF_ExtendedElement / SchoolOverride	O	SRI			If it is present, then use this value for the SchoolCode related to the student. If it is not present, then use the value on the SchoolInfo object.  PowerSchool data element only
SIF_ExtendedElement / TherProgRef	M	D0097 IDEA	Count of referrals of student to Therapeutic Program/classroom		



Element/Attribute	Profile Chart	IA DE Collection/ Element Code	Description	SIF Type	IA DE Business Rules
SIF_ExtendedElement / TherProg	M	D0098 IDEA	Was any portion of this enrollment spent in therapeutic classroom/program	xs:token	Vendor default: 0  1: Yes 0: No
SIF_ExtendedElement / ESA	M	D0100	Is this student funded by an Educational Savings Account?	xs:token	Vendor default: 0  1: Yes 0: No

#### 4.2.15 StudentSectionEnrollment

(SIF Implementation Specification 2.4 - 6.14.24)

This object contains information about a student's enrollment in a section of a course.

SIF\_Events are reported for this object.

Element/Attribute	Profile Chart	IA DE Collection/ Element Code	Description	SIF Type	IA DE Business Rules
@RefId	M		The Id (GUID) that uniquely identifies this StudentSectionEnrollment.	RefIdType	
@StudentPersonalRefId	M		The Id (GUID) of the student to whom this information applies.	IdRefType	
@SectionInfoRefId	M		The Id (GUID) of the section in which this student is enrolled.	IdRefType	

Element/Attribute	Profile Chart	IA DE Collection/ Element Code	Description	SIF Type	IA DE Business Rules
@SchoolYear	M	MTSS	School year for which the information is applicable, expressed as the four-digit year in which the school year ends (e.g. 2024 for the 2023-24 school year).	SchoolYear	
EntryDate	M	MTSS C0170	Date from when this enrollment is valid	xs:date	
ExitDate	M	MTSS C0180	The last school calendar day (membership day) the student was enrolled in the course section (inclusive).	xs:date	

#### 4.2.16 TermInfo

(SIF Implementation Specification 2.4 - 6.14.26)

This object provides information about a term; i.e., a reportable period of time.

SIF\_Events are reported for this object.

Element/Attribute	Profile Chart	IA DE Collection/ Element Code	Description	SIF Type	IA DE Business Rules
@RefId	M		The Id (GUID) that uniquely identifies this TermInfo entity.	RefIdType	
@SchoolInfoRefId	M		The Id (GUID) that identifies the school where the term is used.	IdRefType	

Element/Attribute	Profile Chart	IA DE Collection/ Element Code	Description	SIF Type	IA DE Business Rules
@SchoolYear	M		School year for which the information is applicable, expressed as the four-digit year in which the school year ends (e.g., 2024 for the 2023-24 school year).	SchoolYear	
StartDate	M	C0141 IDEA	Starting date of the term.	xs:date	Used to calculate Section Start Indicator (C0140) for SRI (Iowa DE calculation)
EndDate	M		Ending date of the term (CCYYMMDD).	xs:date	
TermCode	M	MTSS IDEA	Locally-defined codes	xs:normalizedString	
TermSpan	M	MTSS IDEA		TermSpan	

### 4.3 - Student Record Exchange Objects

Please note that some of the elements used for electronic transcripts in each of the following Student Record Exchange elements correspond to a Student Reporting in Iowa data element. In a column with the heading “IA DE Collection / Element Number”, if there is a corresponding IA DE Element Number in the SRI system, the number has been noted.

#### 4.3.1 StudentDemographicRecord

(SIF Implementation Specification 2.4 - 6.15.2)

This object conveys a student's demographic data for student record exchange and transcript purposes.

SIF\_Events are not reported for this object.

Usage:

Please follow the guidelines below for providing the values in the StudentDemographicRecord elements.

Element/Attribute	Profile Chart	IA DE Collection/ Element Code	Description	SIF Type	IA DE Business Rules
@RefId	M		The Id (GUID) that uniquely identifies an instance of this object.	RefIdType	
@SIF_RefId	M		The GUID of an associated object, either StudentRecordExchange or StudentPersonal.	RefIdType	
@SIF_RefObject	M		The associated object type.	values: StudentRecordExchange StudentPersonal	
ReportingDate	M		The date this record was prepared.	xs:date	
StudentPersonalData	M		Collects elements of interest from StudentPersonal.		
StudentPersonalData / LocalId	O	D0010		LocalId	
StudentPersonalData / StateProvinceId	M	K0020		StateProvinceId	The Uniq-ID system assigns a unique ID to a child as he or she enters the Iowa educational system. ID remains the same from year to year and follows the student within the state.
StudentPersonalData / SSN	O	D0160		SSN	
StudentPersonalData / Name	M		Name of the student. Note: Type value of 04 must be used here.	NameOfRecordType [@Type="04"]	

Element/Attribute	Profile Chart	IA DE Collection/ Element Code	Description	SIF Type	IA DE Business Rules
StudentPersonalData / Name/ LastName	M	D0085		LastName [@Type="04"]	
StudentPersonalData / Name/ FirstName	M	D0065		FirstName [@Type="04"]	
StudentPersonalData / Name / MiddleName	O	D0075		MiddleName [@Type="04"]	
StudentPersonalData / Name/ Suffix	O	D0092		xs:normalizedString [@Type="04"]	
StudentPersonalData / OtherNames	O		Previous, alternate or other names or aliases associated with the student.	OtherNames	
StudentPersonalData / OtherNames / Name	MR		Name of the person. Note: Type value of 04 may not occur here	OtherNameType [@Type="05" ](previous name)	
StudentPersonalData / OtherNames / Name / LastName	M	D0080		LastName	
StudentPersonalData / OtherNames / Name / FirstName	M	D0060		FirstName	
StudentPersonalData / OtherNames / Name / MiddleName	O	D0070		MiddleName	
StudentPersonalData / OtherNames / Name / Suffix	O	D0090		xs:normalizedString	

Element/Attribute	Profile Chart	IA DE Collection/ Element Code	Description	SIF Type	IA DE Business Rules
StudentPersonalData / DemographicsData	M		Collects elements of interest from Demographics.		
StudentPersonalData / DemographicsData / RaceList	M			RaceList	
StudentPersonalData / DemographicsData/ RaceList / Race	MR				
StudentPersonalData / DemographicsData / RaceList / Race / Code	M	D0043 D0044 D0045 D0046 D0047	<p>The general racial category which reflects the individual's recognition of his or her community or with which the individual most identifies.</p> <p>In a given SIF implementation Agents must have alignment on the use of the NCES and deprecated SPEEDE code sets. Agents are not required to translate between the code sets.</p>	<p>NCES0849RaceType</p> <p>additional values: A Asian (deprecated) H Hispanic (deprecated)</p>	Agent to provide all the race category codes that apply (with a positive indication) to a student.
StudentPersonalData / DemographicsData/ Gender	M			Gender	M: Male F: Female
StudentPersonalData / DemographicsData / BirthDate	M	D0020		BirthDate	
StudentPersonalData / DemographicsData / HispanicLatino	M	D0042			1: Yes 0: No

Element/Attribute	Profile Chart	IA DE Collection/ Element Code	Description	SIF Type	IA DE Business Rules
StudentPersonalData / AddressList	M		The address of the student.	ActionList (Address/@Type)	
StudentPersonalData / AddressList / Address	MR			[@Type="0123"] (mailing address)	
StudentPersonalData / AddressList / Address / Street / Line1	M			xs:normalizedString	
StudentPersonalData / AddressList / Address / City	M			xs:normalizedString	
StudentPersonalData / AddressList / Address / StateProvince	M			StateProvince	
StudentPersonalData / AddressList / Address / Country	M		The country code.	Country	Vendor default: US
StudentPersonalData / AddressList / Address / PostalCode	M			xs:normalizedString	
StudentPersonalData / PhoneNumberList	M				
StudentPersonalData / PhoneNumberList / PhoneNumber	M			[@Type="0096"]	

Element/Attribute	Profile Chart	IA DE Collection/ Element Code	Description	SIF Type	IA DE Business Rules
StudentPersonalData / PhoneNumberList / PhoneNumber / Number	M		Phone number. Free-form, but typical U.S. formats include: <ul style="list-style-type: none"> <li>• (###) ###-####</li> <li>• ###-####</li> </ul>	xs:normalizedString	
StudentContactsSummary	O		Reports up to two parents/guardians of the student.		
StudentContactsSummary / ParentGuardian1	M		First parent/guardian.		
StudentContactsSummary / ParentGuardian1 / Name	M			[@Type="04"]	
StudentContactsSummary / ParentGuardian1 / Name / LastName	M				
StudentContactsSummary/ ParentGuardian1 / Name / FirstName	M				
StudentContactsSummary / ParentGuardian1 / Name/ MiddleName	O				
StudentContactsSummary / ParentGuardian2	O		Second parent/guardian.		Agent to provide ParentGuardian2 if available.
StudentContactsSummary / ParentGuardian2 / Name	M			[@Type="04"]	



Element/Attribute	Profile Chart	IA DE Collection/ Element Code	Description	SIF Type	IA DE Business Rules
StudentContactsSummary / ParentGuardian2 / Name / LastName	M				
StudentContactsSummary / ParentGuardian2 / Name / FirstName	M				
StudentContactsSummary / ParentGuardian2 / Name / MiddleName	O				
SIF_ExtendedElements / SIF_ExtendedElements / [@Name= "IA Profile Extensions"]	M			List	This is the beginning of "IA Profile Extensions"; a complex Extended Element on the root of the StudentDemographicRecord object.
SIF_ExtendedElement / ResidentDistrictCode	M	D0200	State assigned code of the district where the parents, custodial parent, or guardian resides; four digit code	xs:token	
SIF_ExtendedElement / IAGender	M	D0050	Gender of student		F: Female M: Male X: Non-binary

### 4.3.2 StudentAcademicRecord

(SIF Implementation Specification 2.4 - 6.15.3)

This object conveys a student's academic record data for student record exchange and transcript purposes.

Usage:

Iowa DE districts can have terms with different term spans that run concurrently within a school (building), for instance mini-terms, 4x4 blocks, and semesters. The SIF Implementation Specification allows for multiple terms for historical courses. However, for CurrentCourseActivity courses, the TermInfoData element on CurrentCourseActivity is non-repeatable. In order to allow for multiple term spans (types of sessions) for current courses, Iowa will use the TermInfoData child element on CurrentCourseActivity only for the SchoolYear and use the TermInfoData element on MarkingPeriod to carry the values that define the term for each course, specifically term span (type of session) and term start date.

The CurrentCourseActivity element is only to be used to convey data about courses currently in progress (with future end dates). For any courses completed in the current school year, the Agent is to provide course data via CourseHistory.

SIF\_Events are not reported for this object.

The Agent is to provide the values for the SRI elements Institution Providing Section (C0050) via the Extended Element "SectionProvider". The values in SectionInfo for "SectionProvider" will be used as an override where the values in SectionInfo differ from that in SchoolCourseInfo.

Element/Attribute	Profile Chart	IA DE Collection/ Element Code	Description	SIF Type	IA DE Business Rules
@RefId	M		The Id (GUID) that uniquely identifies an instance of this record.	RefIdType	
@SIF_RefId	M		The GUID of an associated object, either StudentRecordExchange or StudentPersonal.	RefIdType	
@SIF_RefObject	M		The associated object type.	values: StudentRecord Exchange StudentPersonal	
ReportingDate	M		The date this record was prepared.	xs:date	
StudentSchoolEnrollmentData	M		Collects elements of interest from StudentSchoolEnrollment.		
@SchoolAttendedRefId	M		References the school of record for the student (see SchoolAttended)	IdRefType	

Element/Attribute	Profile Chart	IA DE Collection/ Element Code	Description	SIF Type	IA DE Business Rules
StudentSchoolEnrollmentData / GradeLevel	M	D0030		GradeLevel	
SchoolAttendanceHistory	M		Chronology of schools attended in the student's academic career, including the current school if enrolled.	List	
SchoolAttendanceHistory / SchoolAttended	MR		Data about each individual school attended.		
@RefId	M		Id used internally to StudentAcademicRecord to avoid duplication of school-related data.	RefIdType	
SchoolAttendanceHistory / SchoolAttended / LEAInfoData	M		Collects elements of interest from LEAInfo.		
SchoolAttendanceHistory / SchoolAttended / LEAInfoData / StateProvinceId	M	D0203		StateProvinceId	
SchoolAttendanceHistory / SchoolAttended / LEAInfoData / LEAName	M			LEAName	
SchoolAttendanceHistory / SchoolAttended / SchoolInfoData	M		Collects elements of interest from SchoolInfo.		
SchoolAttendanceHistory / SchoolAttended / SchoolInfoData / LocalId	M			LocalId	Locally assigned ID of the building the student currently attends

Element/Attribute	Profile Chart	IA DE Collection/ Element Code	Description	SIF Type	IA DE Business Rules
SchoolAttendanceHistory / SchoolAttended / SchoolInfoData / StateProvinceId	M			StateProvinceId	State assigned ID of the building the student currently attends
SchoolAttendanceHistory / SchoolAttended / SchoolInfoData / SchoolName	M			SchoolName	
SchoolAttendanceHistory / SchoolAttended / SchoolInfoData / SchoolContactList	O			SchoolContactList	
SchoolAttendanceHistory / SchoolAttended / SchoolInfoData / SchoolContactList / SchoolContact	M				
SchoolAttendanceHistory / SchoolAttended / SchoolInfoData / SchoolContactList / SchoolContact / ContactInfo	M				
SchoolAttendanceHistory / SchoolAttended / SchoolInfoData / SchoolContactList / SchoolContact / ContactInfo / Name	M			[@Type="04"]	
SchoolAttendanceHistory / SchoolAttended / SchoolInfoData / SchoolContactList / SchoolContact / ContactInfo / Name/ LastName	O				

Element/Attribute	Profile Chart	IA DE Collection/ Element Code	Description	SIF Type	IA DE Business Rules
SchoolAttendanceHistory / SchoolAttended / SchoolInfoData / SchoolContactList / SchoolContact / ContactInfo / Name/ FirstName	O				
SchoolAttendanceHistory / SchoolAttended / SchoolInfoData / SchoolContactList / SchoolContact / ContactInfo / PositionTitle	O		Role played by this contact in this instance.  Examples: Registrar Counselor		
SchoolAttendanceHistory / SchoolAttended / SchoolInfoData / SchoolContactList / SchoolContact / ContactInfo / PhoneNumberList	M		List of PhoneNumber elements.	PhoneNumberList	
SchoolAttendanceHistory / SchoolAttended / SchoolInfoData / SchoolContactList / SchoolContact / ContactInfo / PhoneNumberList / PhoneNumber	MR		Code that specifies what type of phone number this is. Note: A subset of valid values may be specified in data objects.	PhoneNumber	
SchoolAttendanceHistory / SchoolAttended / SchoolInfoData / SchoolContactList / SchoolContact / ContactInfo / PhoneNumberList / PhoneNumber / Number	M	Sending Building Contact Telephone Number	Phone number. Free-form, but typical U.S. formats include: <ul style="list-style-type: none"> <li>• (###) ###- ####</li> <li>• ###-####</li> </ul>	xs:normalizedString [@ Type="0096"]	
SchoolAttendanceHistory / SchoolAttended / MarkingSystems	C		Note: Mandatory if school of record. Marking systems/grading tables used by the school.	List	

Element/Attribute	Profile Chart	IA DE Collection/ Element Code	Description	SIF Type	IA DE Business Rules
SchoolAttendanceHistory / SchoolAttended / MarkingSystems / MarkValueInfoData	MR		Marking system/grading table used by the school.		Iowa only uses MarkValueInfoData for CourseHistory
@RefId	M		Id used internally to StudentAcademicRecord to link marks to their marking systems.	RefIdType	
SchoolAttendanceHistory / SchoolAttended / MarkingSystems / MarkValueInfoData / Name	M		The text name of the value list ("Letter Grades", "Letter Grades (+/-)", "ESU", "Pass/Fail", "Override Grades", "Citizenship Comment Codes", etc.).	xs:string	
CurrentCourseActivity	C		Note: Mandatory if coursework is underway. Conveys a student's current coursework along with mid-term marks if applicable.		
CurrentCourseActivity / TermInfoData	M		Collects elements of interest from TermInfo.		
@SchoolAttendedRefId	M		Reference to the school of record for the courses being taken (see SchoolAttended).	RefIdType	
CurrentCourseActivity / TermInfoData / SchoolYear	M			SchoolYear	
CurrentCourseActivity / TermInfoData / StartDate	O			PartialDateType	
CurrentCourseActivity / TermInfoData / TermSpan	O			TermSpan	

Element/Attribute	Profile Chart	IA DE Collection/ Element Code	Description	SIF Type	IA DE Business Rules
CurrentCourseActivity / TermInfoData / TermSpan / Code	O		Code for session type.	NCES0266SessionType	
CurrentCourseActivity / Courses	M		Courses being taken.	List	
CurrentCourseActivity / Courses / Course	MR		Course being taken.		
CurrentCourseActivity / Courses / Course / SchoolAttendedRefId	C		Reference to the school where the course is being taken (see SchoolAttended); may be omitted if the school is the same as the school of record.	IdRefTyped	
CurrentCourseActivity / Courses / Course / SchoolCourseInfoData	M		Collects elements of interest from SchoolCourseInfo.		
CurrentCourseActivity / Courses / Course / SchoolCourseInfoData / CourseCode	M	C0020		CourseCode	Number assigned to the high school course by the district for local use.
CurrentCourseActivity / Courses / Course / SchoolCourseInfoData / StateCourseCode	M	C0035		StateCourseCode	Vendor default: 0  Note that the Codeset for the Iowa SCED Course Code is state-specific and differs from the codes in the SIF Common element.

Element/Attribute	Profile Chart	IA DE Collection/ Element Code	Description	SIF Type	IA DE Business Rules
CurrentCourseActivity / Courses / Course / SchoolCourseInfoData / CourseTitle	M	C0010		CourseTitle	Title assigned to the high school course by the current district for local use.
CurrentCourseActivity / Courses / Course / MarkingPeriod	M				
CurrentCourseActivity / Courses / Course / MarkingPeriod / TermInfoData	O		Information related to the span of time associated with the marking period.		
CurrentCourseActivity/ Courses/ Course/ MarkingPeriod / TermInfoData / StartDate	O			PartialDateType	
CurrentCourseActivity / Courses / Course/ MarkingPeriod / TermInfoData / TermSpan	M			TermSpan	
CurrentCourseActivity / Courses / Course/ MarkingPeriod / TermInfoData / TermSpan / Code	M		Code for session type.	NCES0266SessionType	See explanation in "Usage" section preceding the SAR object.
CurrentCourseActivity / Courses / Course/ MarkingPeriod / GradeLevelWhenTaken	M		Student's grade level at time of course.	GradeLevel	
CurrentCourseActivity / Courses / Course / MarkingPeriod / MarkData	C		Note: Mandatory if mid-term mark exists. Mid-term mark.		
@MarkValueInfoDataRefId	M		Reference to marking system at school of record.	IdRefType	



Element/Attribute	Profile Chart	IA DE Collection/ Element Code	Description	SIF Type	IA DE Business Rules
CurrentCourseActivity/Courses/Course/MarkingPeriod/MarkData/Percentage	C		The percent score for this mark (0.00 - 100.00).	xs:decimal	
CurrentCourseActivity/Courses/Course/MarkingPeriod/MarkData/Numeric	C		The raw numeric score for this mark.	xs:unsignedInt	
CurrentCourseActivity / Courses / Course / MarkingPeriod / MarkData / Letter	C		The letter grade for this mark.	xs:normalizedString	
CurrentCourseActivity / Courses / Course / MarkingPeriod / MarkData / Narrative	C		The free form text narrative for this mark.	xs:string	
CurrentCourseActivity / Courses / Course / MarkingPeriod / CourseCreditsAttempted	M		Number of course credits attempted.	xs:decimal	
CurrentCourseActivity / Courses / Course / SIF_ExtendedElements	C			SIF_ExtendedElements List	
CurrentCourseActivity / Courses / Course / SIF_ExtendedElements / SIF_ExtendedElement [@Name="IA Profile Extensions"]	C			SIF_ExtendedElement LIST	Extension on Course. If there are any courses in progress, the Agent must provide this Extended Element.
CurrentCourseActivity / Courses / Course / SIF_ExtendedElement / CommonCourseNumber	O	C0025			

Element/Attribute	Profile Chart	IA DE Collection/ Element Code	Description	SIF Type	IA DE Business Rules
CurrentCourseActivity / Courses / Course / SIF_ExtendedElement / SectionProvider	M	C0050	Institution providing the section of the course, e.g. Iowa school district, Iowa accredited nonpublic school, or an out-of-state school, a postsecondary institution.	xs: normalizedString	See Usage Note above for business rule.
CourseHistory	O		Conveys the coursework completed, performance and attendance information for a student's academic career.	List	
CourseHistory / Term	OR		Time spans by which courses are grouped.		
CourseHistory / Term / TermInfoData	M		Collects elements of interest from TermInfo.		
@SchoolAttendedRefId	M		Reference to the school of record for the time span (see SchoolAttended).	IdRefType	
CourseHistory / Term / TermInfoData / SchoolYear	M			SchoolYear	
CourseHistory / Term / TermInfoData / StartDate	O			PartialDateType	
CourseHistory / Term / TermInfoData / TermSpan	O			TermSpan	
CourseHistory / Term / Courses	O				
CourseHistory / Term / Courses / Course	OR				

Element/Attribute	Profile Chart	IA DE Collection/ Element Code	Description	SIF Type	IA DE Business Rules
CourseHistory / Term / Courses / Course / SchoolAttendedRefId	C		Reference to the school where the course was taken (see SchoolAttended); may be omitted if the school is the same as the school of record.	IdRefType	
CourseHistory / Term / Courses / Course / SchoolCourseInfoData	M		Collects elements of interest from SchoolCourseInfo.		
CourseHistory / Term / Courses / Course / SchoolCourseInfoData / CourseCode	O			CourseCode	
CourseHistory / Term / Courses / Course / SchoolCourseInfoData / StateCourseCode	M	C0035		StateCourseCode	Vendor default: 0  This element is used for Iowa element C0035, named "SCED Course Code" in the SRI Data Dictionary. Note that the Codeset for the Iowa "SCED Course Code" are state-specific and differ from the codes in the SIF Common element.
CourseHistory / Term / Courses / Course / SchoolCourseInfoData / CourseTitle	M	C0010		CourseTitle	Title assigned to the high school course by the current district for local use.

Element/Attribute	Profile Chart	IA DE Collection/ Element Code	Description	SIF Type	IA DE Business Rules
CourseHistory / Term / Courses / Course / MarkingPeriods	M		Student performance/attendance data for each marking period.	List	
CourseHistory / Term / Courses / Course / MarkingPeriods / MarkingPeriod	MR		Student performance/attendance data for a marking period.		
CourseHistory / Term / Courses / Course / MarkingPeriods / MarkingPeriod / SchoolAttendedRefId	C		Reference to the school where student took the course during the marking period, if different from schools above.	IdRefType	
CourseHistory / Term / Courses / Course / MarkingPeriods / MarkingPeriod / TermInfoData	O		Information related to the span of time associated with the marking period.		
CourseHistory / Term / Courses / Course / MarkingPeriods / MarkingPeriod / TermInfoData / StartDate	M			PartialDateType	
CourseHistory / Term / Courses / Course / MarkingPeriods / MarkingPeriod / TermInfoData / TermSpan	M			TermSpan	
CourseHistory / Term / Courses / Course / MarkingPeriods / MarkingPeriod / TermInfoData / TermSpan / Code	M		Code for session type	NCES0266SessionTypeType	
CourseHistory / Term / Courses / Course / MarkingPeriods / MarkingPeriod / GradeLevelWhenTaken	M		Student's grade level at time of course.	GradeLevel	Required for Transcript

Element/Attribute	Profile Chart	IA DE Collection/ Element Code	Description	SIF Type	IA DE Business Rules
CourseHistory / Term / Courses / Course / MarkingPeriods / MarkingPeriod / MarkData	C				
@MarkValueInfoDataRefId	M		Reference to marking system at school of record.	IdRefType	
CourseHistory / Term / Courses / Course / MarkingPeriods / MarkingPeriod / MarkData / Percentage	C		The percent score for this mark (0.00 - 100.00).	xs:decimal	
CourseHistory / Term / Courses / Course / MarkingPeriods / MarkingPeriod / MarkData / Numeric	C		The raw numeric score for this mark.	xs:unsignedInt	
CourseHistory / Term / Courses / Course / MarkingPeriods / MarkingPeriod / MarkData / Letter	C		The letter grade for this mark.	xs:normalizedString	
CourseHistory / Term / Courses / Course / MarkingPeriods / MarkingPeriod / MarkData / Narrative	C		The free form text narrative for this mark.	xs:string	
CourseHistory / Term / Courses / Course / MarkingPeriods / MarkingPeriod / CourseCreditsAttempted	M		Number of course credits attempted.	xs:decimal	
CourseHistory / Term / Courses / Course / MarkingPeriods / MarkingPeriod / CourseCreditsEarned	M		Number of course credits earned.	xs:decimal	
CourseHistory / Term / Courses / Course / MarkingPeriods / MarkingPeriod / CreditType	O		Type of credit.	NCES0108CreditTypeEarnedType	

Element/Attribute	Profile Chart	IA DE Collection/ Element Code	Description	SIF Type	IA DE Business Rules
CourseHistory / Term / Courses / Course / SIF_ExtendedElements / SIF_ExtendedElement [@Name="IA Profile Extensions"]	C			SIF_ExtendedElements LIST	Extension of Course. If there are any historical courses, the Agent must provide this Extended Element.
CourseHistory / Term / Courses / Course / SIF_ExtendedElements / SIF_ExtendedElement / CommonCourseNumber	O	C0025			
CourseHistory / Term / Courses / Course / SIF_ExtendedElement / SectionProvider	M	C0050	Institution providing the section of the course, e.g. Iowa school district, Iowa accredited nonpublic school, or an out-of-state school, a postsecondary institution.	xs:normalizedString	See Usage Note above for business rule.
AcademicPerformanceSummary	M		Conveys a cumulative summary of a student's entire academic performance at the time the transcript was generated.		
AcademicPerformanceSummary / CumulativeGPA	M		Cumulative grade point average for academic career.	xs:decimal	Non- weighted GPA
AcademicPerformanceSummary / ClassRank	O		Student's rank in graduating class.	xs:unsignedInt	Non- weighted Class Rank
AcademicPerformanceSummary / ClassTotalNumber	O		Total number of students in student's graduating class	xs:unsignedInt	

Element/Attribute	Profile Chart	IA DE Collection/ Element Code	Description	SIF Type	IA DE Business Rules
AcademicPerformanceSummary / GraduationDate	C		Note: Mandatory if graduated. Graduation date.	PartialDateType	
AcademicPerformanceSummary / GraduationDiplomaType	C		Note: Mandatory if graduated. Type of diploma earned.	xs:normalizedString	
AssessmentPerformanceHistory	C		Note: Mandatory if assessments exist. Conveys a history of assessments taken throughout a student's academic career.	List	
AssessmentPerformanceHistory / Assessment	MR		A record of performance on an individual assessment.		
AssessmentPerformanceHistory / Assessment / Name	M		Textual description of assessment.	xs:normalizedString	
AssessmentPerformanceHistory / Assessment / AdministrationDate	O		Date the assessment was Administered.	PartialDateType	
AssessmentPerformanceHistory / Assessment / SubtestCategory	O		The subtest or subtest category of the assessment.	xs:normalizedString	
AssessmentPerformanceHistory / Assessment / TestScore	O		Test score.	xs:normalizedString	

Element/Attribute	Profile Chart	IA DE Collection/ Element Code	Description	SIF Type	IA DE Business Rules
SIF_ExtendedElements / SIF_ExtendedElement [@Name="IA Profile Extensions"]	C			List	This is the beginning of "IA Profile Extensions"; a complex Extended Element on the root of the StudentAcademicRecord object. Agent must provide the Mandatory elements.
SIF_ExtendedElement / DiplomaType	M	D0550	This element answers the question "Has the student actually graduated at the time the transcript is being sent?"	xs:token	Vendor default: 99
SIF_ExtendedElement / MaximumGPA	M		The highest possible grade point average (GPA) that a student could obtain on the institutional grading scale.	xs:decimal	
SIF_ExtendedElement / CumulativeWeightedGPA	O			xs:decimal	
SIF_ExtendedElement / WeightedClassRank	O		The weighted academic rank of a student in relation to his or her graduating class.	xs:decimal	
SIF_ExtendedElement / BilitLang2	O	D0571	Language (other than English) that student is fluent in reading, writing, speaking, and listening	xs:token	See appendix <a href="#">A.4.2.13-2</a> for code values



Element/Attribute	Profile Chart	IA DE Collection/ Element Code	Description	SIF Type	IA DE Business Rules
SIF_ExtendedElement / BilitLang3	O	D0572	Language (other than English) that student is fluent in reading, writing, speaking, and listening	xs:token	See appendix <a href="#">A.4.2.13-2</a> for code values

### XML Examples of SIF\_ExtendedElement “IA Profile Extensions” on the StudentAcademicRecord object

#### Example of SIF\_ExtendedElement on both CurrentCourseActivity and CourseHistory:

1. StudentAcademicRecord/CurrentCourseActivity/Courses/Course
2. StudentAcademicRecord/CourseHistory/Term/ Courses/Course

```

<SIF_ExtendedElement Name="IA Profile Extensions">
  <CommonCourseNumber>ENG105</CommonCourseNumber>
  <SectionProvider>17370000</SectionProvider>
</SIF_ExtendedElement>

```

#### Example of SIF\_ExtendedElement on the root of StudentAcademicRecord:

StudentAcademicRecord / SIF\_ExtendedElements / SIF\_ExtendedElement Name= “IA Profile Extensions”

```

<SIF_ExtendedElements>
  <SIF_ExtendedElement Name="IA Profile Extensions">
    <DiplomaType>1</DiplomaType>
    <MaximumGPA>4.0</MaximumGPA>
    <CumulativeWeightedGPA>3.75</CumulativeWeightedGPA>
    <WeightedClassRank>94</ WeightedClassRank>
    <BilitLang2>spa</BilitLang2>
    <BilitLang3>frr</BilitLang3>
  </SIF_ExtendedElement>
</SIF_ExtendedElements>

```