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This article explains how the Iowa SIF model has been set up, which objects and elements are being messaged and the Campus configuration required to successfully use SIF on IA versions of Campus.

This article explains the following items:

- Business Requirements
- State SIF Model
- Version
- Architecture
- Objects
- State SIF Configuration
- Reporting Statewide MTSS
- FAQ

Business Requirements

The Iowa Department of Education is committed to helping districts and schools collect and report state mandated BEDS, EASIER, ITC, and Uniq-ID student data in a more timely and automated manner. The Schools Interoperability Framework (SIF) is the chosen medium by which to accomplish these goals.

State SIF Model



Version

The current active SIF version in Iowa is v2.4.



Architecture

The lowa Department of Education uses the Pearson VRF which is a ZIS pool plus a staging (validation point) and warehousing setup with data mining tools.

Objects

For a complete list of objects, elements and extended elements used in IA SIF messaging, see the Excel document below (updated with Release Pack .2247):

• IA SIF Objects in Tables.xlsx 🗞

State SIF Configuration

State SIF configuration is done by Campus during implementation of SIF. The following sections describe how Campus sets up each tool within the State SIF configuration process.

Due to the specific nature of each customer's SIF configuration setup, the Agent, Zone and Data Access Right setup shown in the sections below are for **EXAMPLE PURPOSES ONLY.** If you are having difficulty configuring these tools within Campus, please contact Campus Support.

Agent Setup

PATH: System Administration > Data Interchange > Agents

A state agent is set up to ensure information is properly communicated between Campus and the state ZIS (see Image 1).

The **URL for zone to pull from** is provided by the State.

Field data shown in the image below is for example purposes only.

Once the Agent is set up, click the **Register** button to send a register message to the state URL. Once Data Access Rights are established, select the **Subscribe** and **Provide** buttons to send SIF messages to the state letting them know how your access control list is configured.



State Agent Setup

Zone Setup

PATH: System Administration > Data Interchange > Zones

A state Zone is established with the values shown in the image below (Image 2). The Campus ZIA acts as the communication hub and manager of zones for data messaging. The ZIS controls the access, routing, and security of data messages from various types of Agents operating within its zones (e.g., SIF Agents, district/state-level agents, POS Agents, DIS Agents).

The ZIS allows zones to be scoped to specific years, schools and/or calendars, which eliminates the transfer of excess data. Messages are routed through the ZIS based on the Data Access Rights configured for the data objects allowed to exchange within each zone.

Index	Search	<	Zones	Zone Options	
 Auditing ► Auditing ► Batch Qu ► Calenda ► Census 	rene	^	New Zone List Name SIFZone ZoneDustin ZoneDustin2	Save Delete Scope Newton 15-16 14-15 Newton High School 15-16 Newton High School	Zone Info *Name SIFZone XML Language Any (not ZIS restricted)
	fining Tools				Allow HTTP (please don't use this in production)
▼ Data Inte Agen Data Zone	ts Access Rights				School All Schools - Year
Error ► Data Util ► Digital R ► Discuss	Log lities lepository				15-16 Calendar URL for Communication https://ie.infinitecampus.com/ie/interchange /ieia/SIFZone
▹ Finance Google Dri					

State Zone Setup

Data Access Rights Setup

PATH: System Administration > Data Interchange > Data Access Rights

Data Access Rights need to be established for the Campus and State agent. Data access rights specify how certain data objects may be exchanged between Campus and State agents.

First, Data Access Rights are set for the Campus agent. The image below shows the Objects and rights that are given to each object. This ensures information is properly sent from Campus to the State agent.

Index Search	Data Access	_	Access Righ	ts	Authorize All												
Auditing	Zone/Agent	Access Co	ontrol	Acc	ess Control List for IA4725Campus i	in	Zone	Dusti	in								
Batch Queue	· district				Object Name					Resp	OK F	Prov OK	Add	ок (Chng OK	Del	ок
► Calendar	🖻 🖬 Zone			$ \mathbf{X} $	CalendarSummary (sif2.0)	•					V	V	V	V	v	/	
▶ Census		gent IA4725 gent SIFAge		$ \mathbf{X} $	DisciplineIncident (sif2.0)	•					V	V V	V	V	V V	/	
	⊡ ि Cone		ni,	$ \mathbf{x} $	MarkValueInfo (sif2.0) -	•					V	V	V	V	V V	/	
Counseling		gent AgentD)ustin	$ \mathbf{x} $	StaffPersonal (sif1.1)	•					V	v	V	V	V V	/	
Custom		gent IA4725		$ \mathbf{x} $	StudentAttendanceSummary (sif2.0) 👻	-					V	V V	V	V	v		
Data Defining Tools	E Cone	ZoneDustin2 gent AgentD		$ \mathbf{x} $	StudentDemographicRecord (sif2.0) 👻	-					V	v v	V	V	v	/	
 Data Interchange 		gent IA4725		$ \times $	StudentPersonal (sif1.1)						V	v	V	V	V	/	
Agents				$ \mathbf{x} $	StudentSchoolEnrollment (sif1.1)	-					V	v v	V	V	v	/	
Data Access Rights				$ \mathbf{x} $	StudentSnapshot (sif1.5)	,					V	v v	V	V	v	/	V
-				A	dd DISDataAccess												
Zones						-											
Error Log																	

Second, Data Access Rights for the State agent are set. The image below shows the Objects and rights that are given to each object. This ensures the State agent is able to properly receive the information being sent from the Campus agent.



Exclude SIF Reporting for a Calendar

PATH: System Administration > Calendar > Calendar > Exclude from SIF Exchange

Marking the **Exclude from SIF Exchange** checkbox on a calendar will exclude the SIF TermInfo and SchoolCourseInfo objects from generating or reporting records in SIF.



In-Progress Grades

Infinite Campus

PATH: System Administration > Preferences > System Preferences > Send Final Grade Only

To send in-progress grades within the SIF StudentSectionMarks object, set **Send Final Grade Only** to **No**. When this option is set to **Yes**, only grades marked as Final are sent.

System Preferences	
Save	
District Preferences	
Search Screen Field Order	Student Number AFTER Name Fields 🗸
Enrollment Overlap Behavior	Strict Prevent & Warn Non-Primary: Prevent any primary enrollment in any cale 💙
Enrollment Start Status Typ	Display Fifth Year EL Menitoring No V
Enrollment End Status Type	Cascade Enrollment End Date to No
Allow GPA Bonus Points	End Date
Turn on Federal Impact Aid	Send Final Grade Only No 🗸

Reporting Statewide MTSS

MTSS data is reported in SIF via a set of values established within Campus. The following will describe how this data is reported and how it can be set up within Campus.

This section is under construction and will contain more thorough steps in the ne	<u>ear</u>							
future.								

- District Employment and District Assignment records are both required in order to send the StaffPersonal and StaffAssignment SIF messages that will report MTSS information.
- At a minimum, the District Employment and District Assignment records need a Start Date, and the District Assignment record will also need a calendar. This is the minimum required setup to send the SIF message to report this person.
- If a person is both a teacher and a principal the state would like to report two codes. The only way to report two codes is to create two District Assignment records for this person.
- If two District Assignment records are needed, please be aware that the Teacher check box should only be checked on one record. The teacher check box trumps all other setup and will always send the record as 1000, regardless of the title.

Reporting Logic

- 1. Report an instance of Jobfunction (including Code and OtherCode) for the 1st criteria that's met and report the indicated OtherCode:
 - Report the entry in the Attribute/Dictionary 'Standard Code' column for the selection in (Census > People > District Assignments > Employment Assignment Information > Title).
 - When the Title field is null or when the Title selected has a Standard Code = Null:
 - When (Census > People > District Assignments > Employment Assignment Information > Teacher) = Checked:
 - Report "1000".
 - When (Census > People > District Assignments > Employment Assignment Information > Teacher) NOT = Checked:
 - Staff does not qualify to report this instance of OtherCode.



- 2. Report an instance of Jobfunction (including Code and OtherCode) and report the indicated OtherCode:
 - Report the entry in the Attribute/Dictionary 'Standard Code' column for the selection in (Census > People > District Assignments > Employment Assignment Information > FAST Group).
- 3. When staff doesn't qualify to report a Jobfunction based on either of these criteria, report the Jobfunction element as null.

FAQ

How do SIF event messages work? What action will create a SIF event message?

A: There are three types of SIF events: ADD, CHANGE, and DELETE.

- 1. An ADD event happens when data is created; for example when a new enrollment is saved for a student.
- 2. A CHANGE event happens when data is modified; for example when a comment is saved on a student enrollment.
- 3. A DELETE event happens when data is deleted; for example when an enrollment is deleted.

A change event is the most common way to verify that SIF data is sent. The easiest way to test a change event would be to add a comment and save.

For example, a comment can be saved on a student enrollment record to verify the student will send a SIF message.

The following screens are able to trigger SIF event messages for the following SIF objects:

- CalendarSummary: System Administration > Calendar > Calendar > Calendar.
- LEAInfo: System Administration > Resources > District Information.
- RoomInfo: System Administration > Resources > Resources > Rooms.
- SchoolCourseInfo: Scheduling > Courses > Course.
- SchoolInfo: System Administration > Resources > School.
- SectionInfo: Section tab.
- StaffPersonal: Demographics tab in Census.
- StudentContact: Demographics tab for a student or their parent.
- StudentPersonal: Demographics tab. Enrollment. Address.
- StudentSchoolEnrollment: Enrollment tab.
- StudentSectionEnrollment: Schedule tab.

I see a NULL pointer error message in the error logs, what does it mean?

A: Most often the error is nothing to be concerned about. It likely indicates a temporary disconnect between the two servers that has since been resolved. The Infinite Campus SIF agent is in constant communication (24 X 7 X 365) with the IA ZIS. The error message indicates the communication was temporarily lost. A server restart for a Windows update might cause this to happen.

Do we need to replace our current titles with the ones coded for IA Tier, such as 2200 for site user? If so, do we move the actual job titles like Eng 9/10 down to Teaching Assignment?

A: There should be no need to replace existing titles. Only missing titles should be added, and if the title already exists it should remain in the dictionary. You do want to be sure the 'Standard Code' contains the appropriate number for each title (2000 for Site User). The standard code is used by the SIF message. You should locate the current title, click on it, and make sure standard code number is correctly filled in. If the standard code is empty, the number should be entered and the record should be saved. All users currently associated with the title will now report correctly to TIER. The Teaching Assignment dictionary is locked and cannot be modified. This field is currently configured correctly.

The documentation says you should be putting a SIF code in for each school in the field labled 'Standard Code (SIF Code)'. Do we need to do that? We do not have anything in those fields currently.

A: The Standard Code on the school is used for other states. Iowa does not need to use it, because the regular State School Number is used. Certain states use two different values to report the state school number and so the standard code field will be used if two different school numbers need to be reported. Iowa only uses one school number, so the standard code can be left empty.

Does Campus use a single SIF Agent or multiple agents for differing types of data?

A: Campus provides a fully functioning ZIS which allows multiple agents to be connected and can communicate will all of them.

Is Any Special Software/Hardware Required to Host the Zone Integration Server (ZIS)?

A: No. Infinite Campus provides every customer with a free embedded ZIS.

How Does the Campus Data Integration Server (DIS) compare to the standard ZIS?

A: DIS is how Campus sends XML messages for different purposes (State Edition, Food Service, National Records Exchange). SIF is a subset of DIS. Campus' ZIS is SIF certified and we were the first company to receive SIF 2.0 ZIS certification.

Can I Modify and Customize Campus SIF Agent?

A: No. The SIF Agent is hard coded and does not allow for modification or customization.

What SIF Agents is Campus able to Connect With?

A: Campus can establish a SIF connection with every SIF agent that exists. Campus just needs to know which objects should to be sent to the SIF vendor.

Is There a Way to Send Only Certain Elements of a SIF Object?

A: No. When Campus sends information for a SIF object, all elements within that object are sent. There is no way to specify which elements within an object should be sent.

If a Student's Enrollment Record is Ended, Will SIF Messages Still be Sent for



this Student?

A: Yes. As long as the enrollment record is in the zone it will send a SIF message that will include the Entry Date and Exit Date.