

# SIF (Wyoming)

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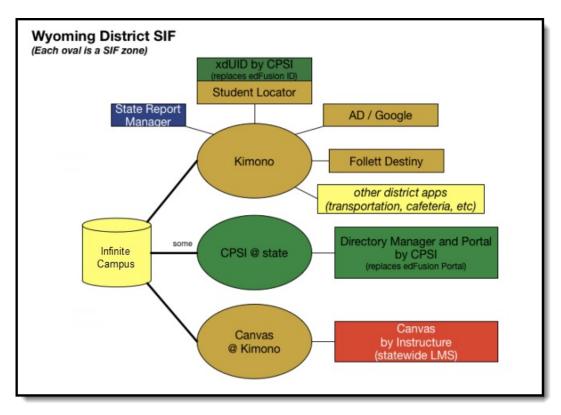
This article explains how the Wyoming's SIF model has been set up, which objects and elements are being messaged and the Campus configuration required to successfully use SIF on WY versions of Campus.

# **Business Requirements**

The Wyoming Department of Education has developed a state-wide student record tracking and reporting system called the WISE Data System. Using WISE, Wyoming staff are able to manage data for decision making and statistical reporting at the state level, routinely provide pertinent information to school districts and satisfy mandated state and federal reporting requirements. Campus can be setup to accurately and successfully send data within Campus to the WISE system.

# **State SIF Model**

In Wyoming, a district may have one, two, or three SIF zones that Infinite Campus connects to for use with state-provided products.





### Version

The current active SIF version for the framework is v2.0r1.

### Architecture

The Wyoming Department of Education has implemented the WISE data system. Data is transferred from a Campus SIF Agent to the State ZIS.

# **Objects**

For a complete list of objects, elements and extended elements used in WY SIF messaging, see the Excel document below:

wy-sif-objects-in-tables1.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**

A state agent is set up to ensure information is properly communicated between Campus and the state ZIS.

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

Name //Y1902000Campus	Queue: 0	Use Gzip On Send
ncoming Host		
Header Field	IP Address	
×	<b>T</b>	
Add DISAgentIncomingHo	ost	_
Description		
DIS/ZIS and SIS Agent		
Registered Yes ▼ Status		Sleeping No T Selective
Authorized to exchange da	ita 🔻	Blocking(SMB) false
Subscribe Mode Push T		Connection Type
ML Language		Max Buffer 15000000
JRL of zone to push to		

Once the Agent is setup, the **Register** button needs to be selected. This will send a register message to the state URL. Once Data Access Rights are established, the **Subscribe** and **Provide** buttons need to be selected which will send SIF messages to the state letting them know how our access control list is configured.

### Zone Setup

A state Zone is established with the values shown in the image below. The Campus ZIS acts as the communication hub and manager of zones used for data messaging. The ZIS controls the access, routing and security of data messages from various types of <u>Agents</u> operating within its zones (e.g., <u>SIF</u> agents, district/state-level agents, <u>POS</u> 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 <u>Data Access Rights</u> configured for the data objects allowed to exchange within each zone.

7	
Zone Info *Name	
WY Zone	
XML Lang	
	ZIS restricted) V
	P (please don't use this in production)
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Descriptio	n
	/
School	
All School	ols 🔻
Year	
	<b>T</b>
Calendar	
	ommunication
	infinitecampus.com/ie/interchange/iewy/ZoneDustin
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	State Zone Setup

### **Zone Option Setup**

Users should determine Zone Options for their SIF zone. Zone Options allow users to limit or specify certain data objects and parameters transferred between agents tied to the zone. Users should set the appropriate settings in order to populate their SIF elements with data that matches their state reporting.

• System Administration     • Attendance     • Auditing     • Auditing     • Batch Queue     • Calendar     • Calendar     • Counseling     • Custom     • Data Defining Tools     • Data Interchange              • Attendance Scope     Data Filtering Options     Name      Scope     District     13:14 Ackerty/Bingham Guidance C     KryStateZone      13:14 Ackerty/Bingham Guidance C     KryStateZone     13:14 Ackerty/Bingham Guidance C     KryStateZone     13:14 Ackerty/Bingham Guidance C     KryStateZone     14:15      Counselling     • Custom     • Data Defining Tools     • Data Interchange <b>Attendance Code Allowed List</b>	Index	Search	Help	<	Zones	Zone Options		
Agents       Data Access Rights       Verification       Zones       Error Log	▼ Syster	m Administratio Attendance Auditing Batch Queue Calendar Census Counseling Custom Data Defining T Data Interchang Agents Data Access Verification Zones	iools je		Save Zone Lis Name District KryStateZ KryStateZ	t Scope 13-14 Ack one 13-14 oneM1 12-13	Note: Campus Zor         editable	Exclude All Secondary Enrollments Strip Empty SIF 2.* XML Elements Exclude No Show Enrollments Exclude All State Exclude Enrollments Publish Social Security Numbers in StaffPersonal Publish Social Security Numbers in StudentPersonal Exclude Schools with No Calendars de Allowed List Enhancement Opp v smissal Excused v Unexcused v

#### **Data Access Rights Setup**

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.

Attenda	ime nceCodelnfo (sif	1.1)	-										Chng			
	rDate (sif2.0)	,	•													
	rSummary (sif2.0	))	-													
K Disciplin	elncident (sif2.0)		•								<b>V</b>					
< LEAInfo	(sif1.5)		•				<b>V</b>	<b>V</b>	<b>V</b>	<b>V</b>			<b>V</b>	<b>V</b>		
< Roomin f	o (sif1.1)		•				V	<b>V</b>	<b>V</b>	<b>V</b>	V	<b>V</b>	V	<b>V</b>	<b>V</b>	<b>V</b>
< SchoolC	ourselnfo (sif1.1	)	•				V	<b>V</b>	<b>V</b>	<b>V</b>	<b>V</b>	<b>V</b>	V	<b>V</b>	<b>V</b>	V
< Schoolin	fo (sif1.1)		•				V	✓	<b>V</b>	<b>V</b>	V	✓	V	<b>V</b>	<b>V</b>	V
< Section	nfo (sif1.1)		•				V	<b>V</b>	<b>V</b>	✓	<b>V</b>	<b>V</b>	V	<b>V</b>	✓	V
StaffAs	signment (sif1.5)		•				V	V	<b>V</b>	✓	V	$\checkmark$	V	V	✓	V
< StaffPer	sonal (sif1.1)		•				V	V	<b>V</b>	<b>V</b>	V	<b>V</b>	$\checkmark$	V	<b>V</b>	V
< Student/	AcademicRecord	(sif2.0)	•				<b>V</b>	V	V	<b>V</b>						
K Student/	AttendanceSumm	nary (sif2.0)	•				V	✓	✓	V						
K Student	Contact (sif1.1)		•				V	V	<b>V</b>	✓	V	V	<b>V</b>	V	✓	V
K Student	DailyAttendance	(sif1.1)	•				V	V	V	V						
K Student	Personal (sif1.1)		•		V	V	V	V	V	V	V	V	V	V	V	V
K Student	SchoolEnrollment	(sif1.1)	•				V	V	V	V	V	V	V	V	V	V
K Student	SectionEnrollmen	t (sif1.1)	•				V	<b>V</b>	<b>V</b>	<b>V</b>	V	V	V	V	<b>V</b>	<b>V</b>
K Student	SectionMarks (sit	2.0)	•				V	V	<b>V</b>	V	V	V	V	V	<b>V</b>	V
K Terminfo			•				V	<b>V</b>	<b>V</b>	<b>V</b>	V	V	V	V	<b>V</b>	<b>V</b>
Add DISE	)ataAccess															

Second, Data Access Rights for the State WAVE 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.



	Object Name	Req	ОК	Sub	ок	Resp	ОК	Prov	ОК	Add	ок	Chng	ОК	Del	ОК
K.	AttendanceCodeInfo (sif1.1)		V	V	<b>V</b>										
×	CalendarDate (sif2.0)	☑	V	<b>v</b>	V										
×	CalendarSummary (sif2.0)	V	V	<b>V</b>	<b>V</b>										
×	DisciplineIncident (sif2.0)	V	V	V	V										
X	LEAInfo (sif1.5) -	V	V	V	V										
X	RoomInfo (sif1.1) -	✓	V	✓	✓										
X	SchoolCourseInfo (sif1.1) -	V	V	<b>V</b>	V										
X	SchoolInfo (sif1.1) -	✓	✓	✓	<b>V</b>										
X	SectionInfo (sif1.1) -	✓	V	<b>V</b>	<b>V</b>										
X	StaffAssignment (sif1.5)	V	V	V	<b>V</b>										
X	StaffPersonal (sif1.1)	V	V	V	<b>V</b>										
X	StudentAcademicRecord (sif2.0)	V	V	V	V										
X	StudentAttendanceSummary (sif2.0)	V	V	V	<b>V</b>										
X	StudentContact (sif1.1)	V	V	✓	<b>V</b>										
X	StudentDailyAttendance (sif1.1)	V	V	V	<b>V</b>										
X	StudentPersonal (sif1.1)	V	V	V	<b>V</b>							<b>V</b>	<b>V</b>		
X	StudentSchoolEnrollment (sif1.1)	V	V	V	<b>V</b>										
X	StudentSectionEnrollment (sif1.1)	V	<b>V</b>	<b>V</b>	<b>V</b>										
X	StudentSectionMarks (sif2.0)	V	<b>V</b>	✓	<b>V</b>										
X	TermInfo (sif1.1)	V	V	✓	<b>V</b>										
	Add DISDataAccess														
			_	_	_		_	_			_	_			

### **Exclude SIF Reporting for a Calendar**

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.

Calendar ID 305 *Name	School 0505 HIGH SCHOOL Number	(schoolID:13) Sequence
16-17 HIGH SCHOOL		Gequence
*Start Date	*End Date	Summer School
07/01/2016	06/30/2017	
Student Day (instructional minutes)	Teacher Day (minutes)	Exclude
330	364	
Whole Day Absence (minutes)	Half Day Absence (minutes)	School Choice
5	1	$\Box$
Type	×	
Require Student Assignment	Exclude from SIF Exchange	External LMS Exclud
Comments		
rolling 10/30/2015 12:43 PM		

# FAQ

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 the 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.