

SIF (Connecticut)

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

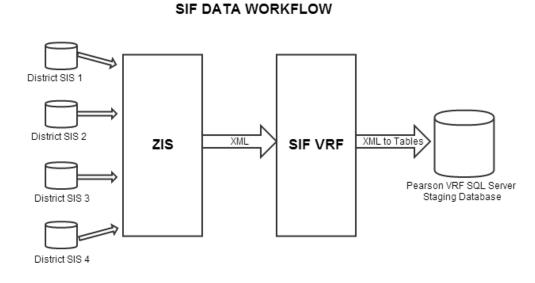
This article explains the following items:

- Business Requirements
- State SIF Model
- Version
- Architecture
- Objects
- State SIF Configuration
- FAQ

Business Requirements

The Connecticut Department of Education is committed to helping districts and schools collect and report state mandated SASID, PSIS, TCS, and ED166 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 CT is v2.4.



Architecture

The Connecticut 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 CT SIF messaging, see the Excel documents below (updated with Release Pack .2219):

• CT 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 our access control list is configured.

Agent Info	-	
OPush message delivery is r	unning. ^O Polling the	
*Name	Queue: 0	Use Gzip On Send
CT_StateAgent		
Incoming Hostname/IP Address	•	
test.example.org		
Description		
CT State Agent		
Registered		Sleeping
Yes 🗸		No 🗸
Status		Selective Blocking(SMB)
Authorized to exchange data	¥	false
Subscribe Mode		Connection Type
Pull 🗸		Server 🗸
XML Language		Max Buffer
SIF 2.4(compatible)		1000000
URL of zone to pull from		
https://zis1.examplezoneURL		
Client Certificate Alias		
Client Certificate: ()		
Choose File No file choser	ı	
Agent Emulation Control		
Zone Name Zone	eDustin 🗸	
*Selec	ct zone each time yo	u run Agent Emulation
Register	Unregister	SIF GetZoneStatus (2.0r1)
Subscribe	Jnsubscribe	SIF_GetAgentACL (2.0r1)
Provide	Unprovide	Provision (2.0r1)

Image 1: State Agent Setup

Zone Setup

ampus

PATH: System Administration > Data Interchange > Zones

A state Zone is established with the values shown in the image below (Image 2). 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 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.

Zone Info
*Name
CT_StateZone
XML Language
Any (not ZIS restricted)
Allow HTTP (please don't use this in production)
Description
School
Trumbull High School
Year
12-13
Calendar
All Calendars 🗸
URL for Communication
https://ie.infinitecampus.com/ie/interchange/iect/ZoneTomma

Image 2: 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.

Save 🕂 New Access Rights 👂 Authorize All									
Zone/Agent Access Control Access Control List for CT144Campus in ZoneDustin	OK Resp OK Prov OK Add OK Chng OK Del OH V								

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.

Infinite Campus	
Data Access Rights	
Zone/Agent Access Control district Cone ZoneDustin Agent AgentDustin Agent CT144Campus Cone ZoneGarrett Agent CT144Campus Cone ZoneTomma Agent agentTomma Agent CT144Campus	Access Control List for AgentDustin in ZoneDustin Neg OK Sub OK Resp OK Prov OK Add OK Chng OK Del OK DisciplineIncident (sif2.0) V V V V Image: Colspan="5">Control List for AgentDustin X DisciplineIncident (sif2.0) V V V V V Image: Colspan="5">Control List for AgentDustin X DisciplineIncident (sif1.1) V V V V Image: Colspan="5">Control List for AgentDustin X DisciplineIncident (sif1.0) V V V V Image: Control List for AgentDustin Image: Control List for AgentDustin for Add OK Chng OK Del OK Control List for Add OK Chng OK Del OK X StudentAccademicRecord (sif2.0) V V V V Image: Control List for AgentDustin for Add OK Chng OK Del OK X StudentDemographicRecord (sif2.0) V V V V Image: Control List for Add OK Chng OK Del OK X StudentGrade (sif2.3) V V V V Image: Control List for Add DisplataAccess X StudentSchoolEnrollment (sif1.1) V V V V Image: Control List for Add DisplataAccess Image: Control List for Add Di

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.

Index	Search	<	16-17 HI	GH SCHOOL	14.8034001.			
 System Admin 	nistration	-	Calendar	Grade Levels	Schedule Structure	Terms	Periods	Days
► Attenda	nce		Save					
► Auditing	I		Calendar Info	0	School			
► Batch Q	ueue		305 *Name		0505 HIGH SCHOOL Number		(schoolID:13) quence	
 Calenda 	ar	÷.	16-17 HIGH 9	SCHOOL				
Cale	ndar		*Start Date 07/01/2016	•	*End Date 06/30/2017	Sun	nmer School	
Cale	ndar Wizard		Student Day (i 330	nstructional minutes)	Teacher Day (minutes 364	s) Exc	lude	
Scho	ool Years			sence (minutes)	Half Day Absence (mi	inutes) Sch	iool Choice	
Campus S	tudent Settings		5 Type	- `	1			
▶ Census			I: Instructiona Require Stude		Exclude from SIF Exc	hange Exte	ernal LMS Exclude	
► Counse	ling			_	A 🗆			
► Custom			Comments rolling 10/30/2	015 12:43 PM				
► Data De	fining Tools							
								_

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 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.