

SIF (Oklahoma)

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This article explains how Oklahoma's SIF model is set up, which objects and elements are being sent, and the Campus configuration required to successfully use SIF on OK versions of Campus.

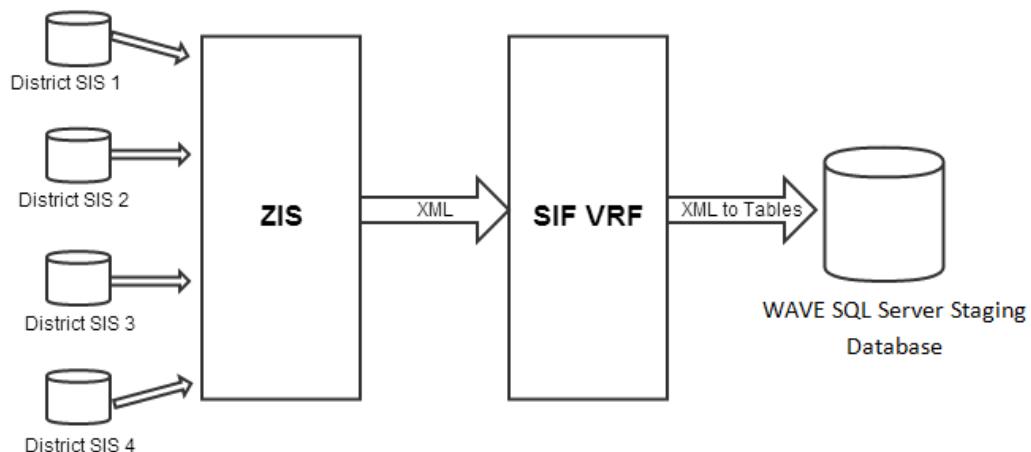
This documentation pertains to v2.7 of SIF. For SIF Unity information, please see the [Oklahoma SIF Unity article](#).

Business Requirements

The Oklahoma Department of Education (SDE) is continuing to develop and implement a comprehensive state-wide student record tracking and reporting system called the Wave. Using the Wave, SDE 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.

State SIF Model

SIF DATA WORKFLOW



This documentation pertains to v2.7 of SIF. For SIF Unity information, please see the [Oklahoma SIF Unity article](#).

Architecture

The Oklahoma Department of Education has implemented the WAVE collection 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 OK SIF messaging, see the Excel document below (Updated with Release Pack .2419):

- [ok-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.

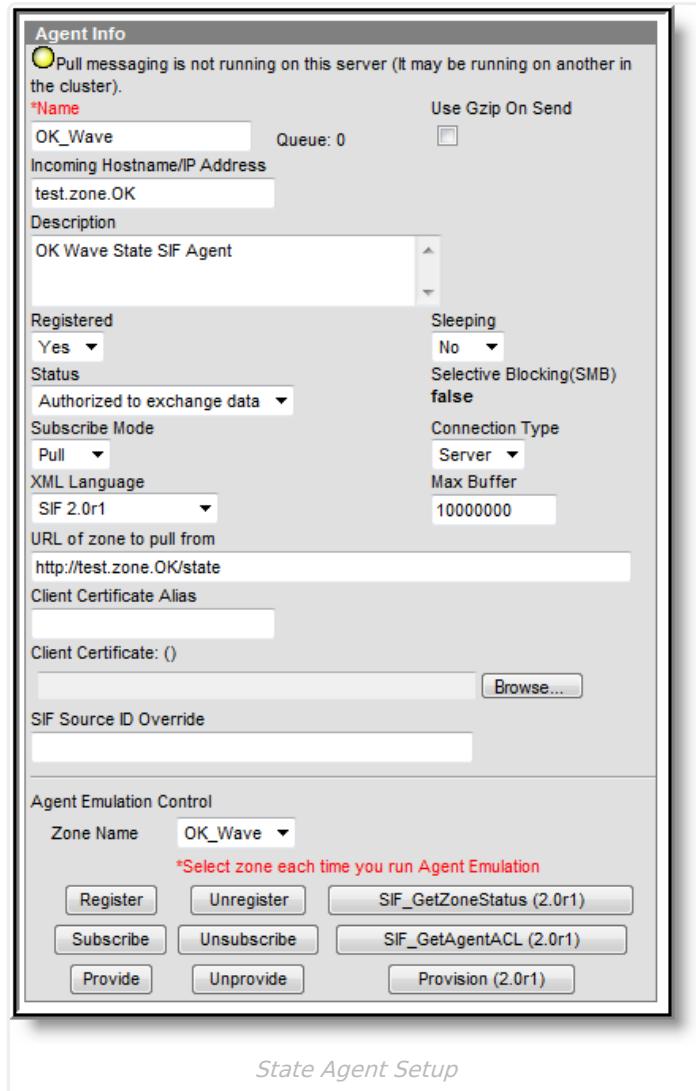
Due to the specific nature of each customer's SIF configuration setup, the Agent, Zone and Data Access Right setup shown in the sections below are for **EXAMPLE PURPOSES ONLY**. If you are having difficulty configuring these tools within Campus, please contact Campus Support.

Agent Setup

Tool Search: 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.



Once the Agent is setup, select the **Register** button. This sends a register message to the state URL. Once Data Access Rights are established, select the **Subscribe** and **Provide** buttons, which sends SIF messages to the state letting them know the access control list configuration.

Zone Setup

Tool Search: 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**
OK_Wave

XML Language
Any (not ZIS restricted)

Allow HTTP (please don't use this in production)

Description
SIF Zone for OK Wave collections

School
All Schools

Year
13-14

Calendar

URL for Communication
https://support2.infinitecampus.com/ELA/interchange/laeok/OK_Wave

State Zone Setup

Zone Option Setup

Tool Search: Zone Options

Users should determine Zone Options for their SIF zone (Image 3). 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.

Index **Search** **Help** **Zone Options**

System Administration

- Attendance
- Auditing
- Batch Queue
- Calendar
- Census
- Counseling
- Custom
- Data Defining Tools
- Data Interchange**
- Agents
- Data Access Rights
- Verification
- Zones**
- Error Log

Zones **Zone Options**

Save

Zone List

Name	Scope
District	13-14 Ackerty/Bingham Guidance C
KYStateZone	13-14
KYStateZoneM1	12-13
KYStateZoneP1	14-15

Data Filtering Options

Note: Campus Zone, not 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

Attendance Code Allowed List

- EHO: Educ Enhancement Opp
- EX: Early Dismissal Excused
- TNE: Tardy Unexcused

Add AttendanceCode

Setting Zone Options

Data Access Rights Setup

Tool Search: Data Access Rights

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

Object Name	Req OK	Sub OK	Resp OK	Prov OK	Add OK	Chng OK	Del OK
AttendanceCodeInfo (sif1.1)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
CalendarDate (sif2.0)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
CalendarSummary (sif2.0)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
DisciplineIncident (sif2.0)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
LEAInfo (sif1.5)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
RoomInfo (sif1.1)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
SchoolCounselInfo (sif1.1)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
SchoolInfo (sif1.1)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
SectionInfo (sif1.1)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
StaffAssignment (sif1.5)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
StaffPersonal (sif1.1)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
StudentAcademicRecord (sif2.0)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
StudentAttendanceSummary (sif2.0)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
StudentContact (sif1.1)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
StudentDailyAttendance (sif1.1)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
StudentPersonal (sif1.1)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>				
StudentSchoolEnrollment (sif1.1)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
StudentSectionEnrollment (sif1.1)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
StudentSectionMarks (sif2.0)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
TermInfo (sif1.1)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

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.

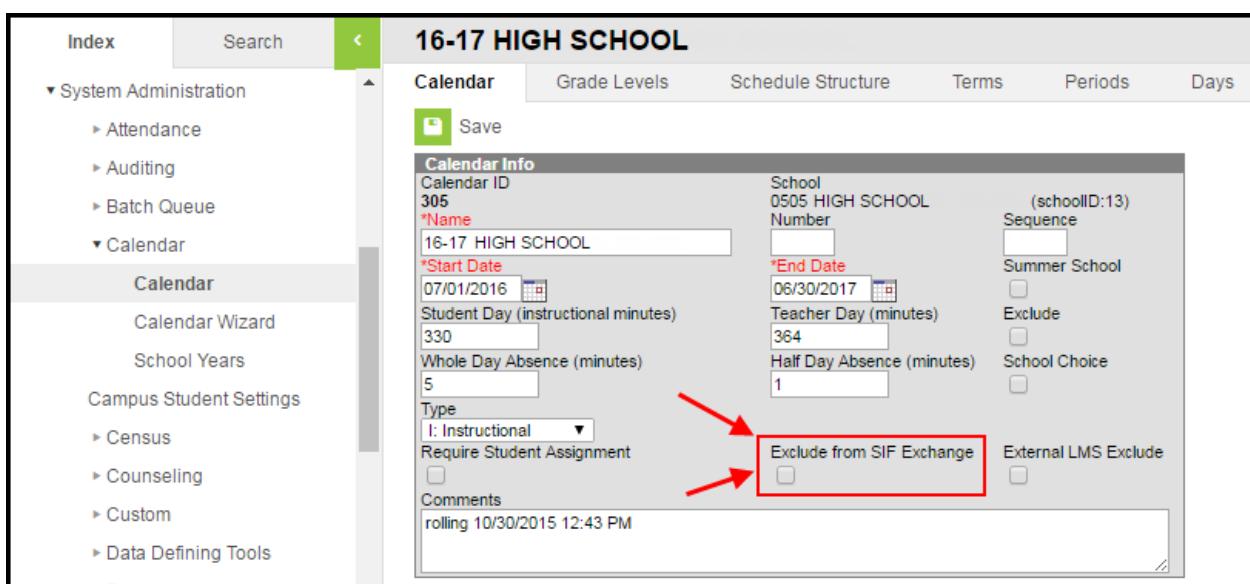
Object Name	Req OK	Sub OK	Resp OK	Prov OK	Add OK	Chng OK	Del OK
X AttendanceCodeInfo (sif1.1)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
X CalendarDate (sif2.0)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
X CalendarSummary (sif2.0)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
X DisciplineIncident (sif2.0)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
X LEAInfo (sif1.5)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
X RoomInfo (sif1.1)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
X SchoolCourseInfo (sif1.1)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
X SchoolInfo (sif1.1)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
X SectionInfo (sif1.1)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
X StaffAssignment (sif1.5)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
X StaffPersonal (sif1.1)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
X StudentAcademicRecord (sif2.0)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
X StudentAttendanceSummary (sif2.0)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
X StudentContact (sif1.1)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
X StudentDailyAttendance (sif1.1)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
X StudentPersonal (sif1.1)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
X StudentSchoolEnrollment (sif1.1)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
X StudentSectionEnrollment (sif1.1)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
X StudentSectionMarks (sif2.0)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
X TermInfo (sif1.1)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Add DISDataAccess

Exclude SIF Reporting for a Calendar

Tool Search: Exclude from SIF Exchange

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

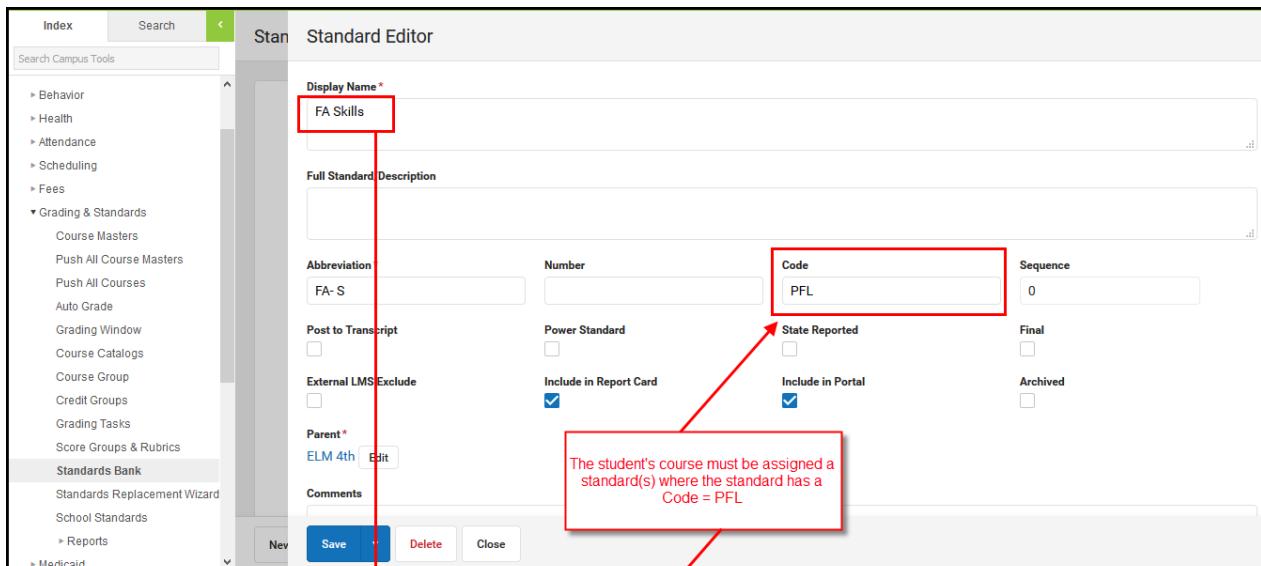


The screenshot shows the '16-17 HIGH SCHOOL' calendar configuration page. On the left, a navigation menu is visible with 'System Administration' expanded, showing 'Attendance', 'Auditing', 'Batch Queue', 'Calendar' (selected), 'Calendar Wizard', 'School Years', 'Campus Student Settings', 'Census', 'Counseling', 'Custom', and 'Data Defining Tools'. The main area is titled '16-17 HIGH SCHOOL' and contains a 'Save' button. The 'Calendar Info' section includes fields for 'Calendar ID' (305), 'Name' (16-17 HIGH SCHOOL), 'Start Date' (07/01/2016), 'End Date' (06/30/2017), 'School' (0505 HIGH SCHOOL), 'Number' (), 'Sequence' (), 'Summer School' (unchecked), 'Exclude' (unchecked), 'School Choice' (unchecked), 'Type' (set to 'Instructional'), 'Require Student Assignment' (unchecked), 'Comments' (rolling 10/30/2015 12:43 PM), and 'External LMS Exclude' (unchecked). A red box and arrow highlight the 'Exclude' checkbox in the 'School Choice' section.

Additional Setup

In order for data to populate the SIF

StudentAcademicRecord/AdditionalGraduationRequirementPerformanceHistory element, students must have a grading standard attached to their course with a Code = PFL (see image below).



Index Search Stan Standard Editor

Display Name * FA Skills

Full Standard Description

Abbreviation FA-S

Number

Code PFL

Sequence 0

Post to Transcript

External LMS Exclude

Parent * ELM 4th Edit

Comments

Power Standard

Include in Report Card

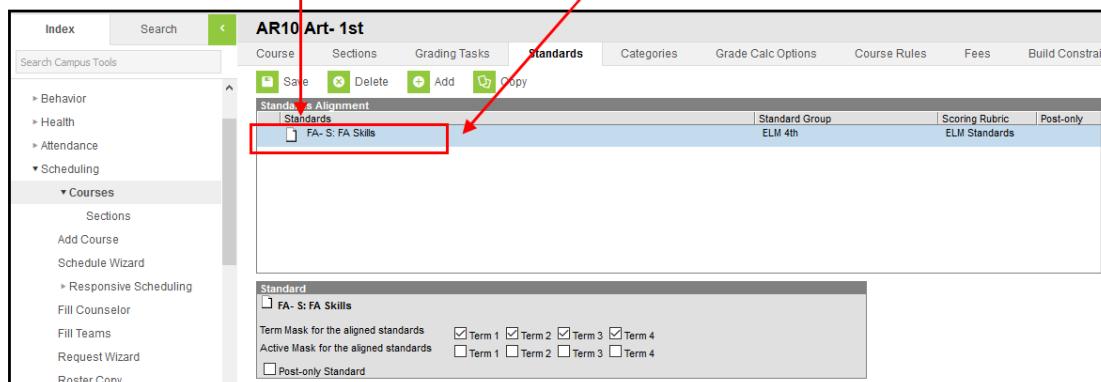
State Reported

Include in Portal

Final

Archived

Save Delete Close



Index Search AR10 Art-1st

Course Sections Grading Tasks Standards Categories Grade Calc Options Course Rules Fees Build Constraints

Save Delete Add Copy

Standards Alignment Standards Standard Group Scoring Rubric Post-only

FA- S: FA Skills ELM 4th ELM Standards

Standard FA- S: FA Skills

Term Mask for the aligned standards Term 1 Term 2 Term 3 Term 4

Active Mask for the aligned standards Term 1 Term 2 Term 3 Term 4

Post-only Standard

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 connect and communicate with 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.

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 existing SIF agent. Campus just needs to know which objects to send 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 the 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, are SIF messages still sent for this student?

A: Yes. As long as the enrollment record is in the zone, a SIF message that includes the Entry Date and Exit Date is sent.
