

Setup a SIF Agent

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Tool Search: Agents

This information is for SIF v2.7 only.

This article is designed for advanced technical users only and is relevant to districts using [SIF Data Exchange](#).

This article is part of an ordered [SIF Configuration](#) process and applies to both methods of configuration ([Horizontal](#) and [Vertical](#)).

Before beginning, please consider this setup step in relation to the ordered setup steps of the [SIF Configuration](#) process:

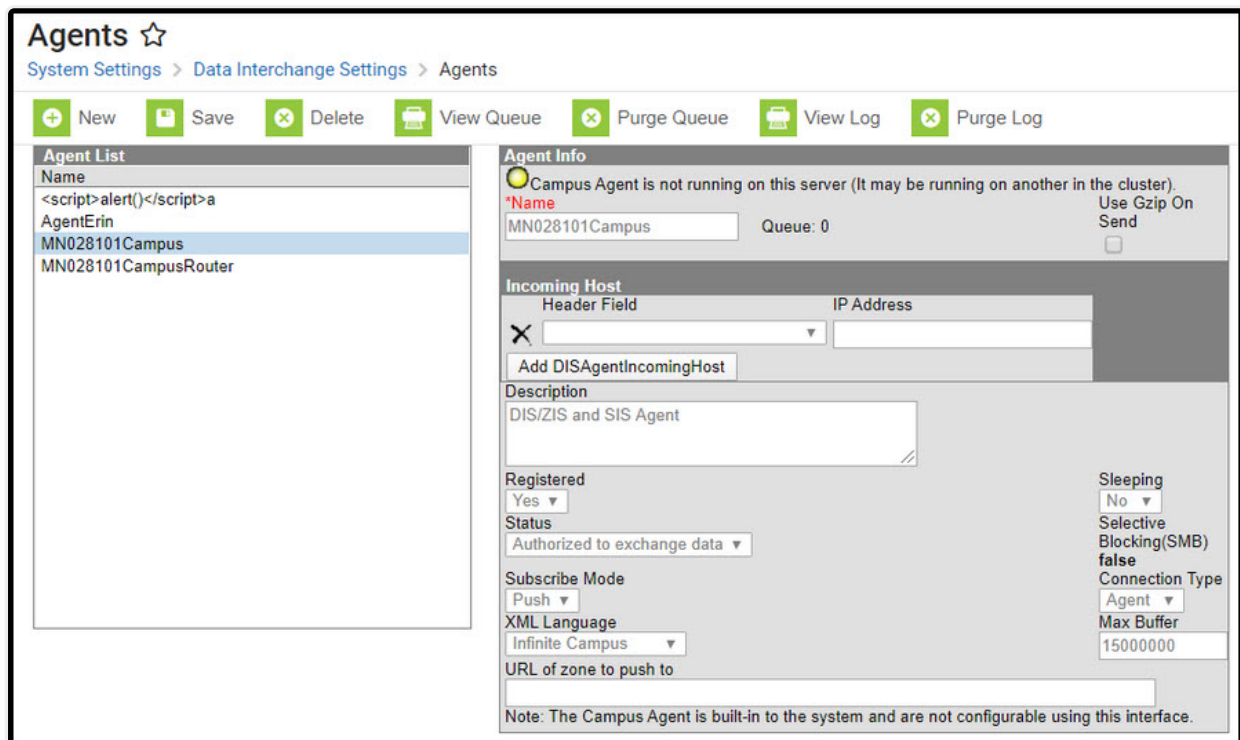
- [Setup School SIF Codes](#)
- [Setup SIF Grade Levels](#)
- [Setup SIF Zone](#)
- [Setup SIF Agent](#)
- [Setup SIF Data Access Rights](#)
- [Register Agent](#)
- [Request Data Sync](#)

Any vehicles for sending/receiving data must be registered in the Campus application as [Agents](#), even external SIF applications.

Creating a SIF Agent

To represent and exchange data on behalf of the non-Campus SIF application, a SIF emulation Agent must be manually created and configured through the Campus [Agents](#) tool. The SIF agent will exchange data with the Campus Agent within a SIF [Zone](#) (created in the [Setup SIF Zone](#) step of the [SIF Configuration](#) process).

In some instances of [Vertical Reporting](#), this step will not be necessary. When a SIF agent is set up in the external SIF application it can register with the Campus application using the Campus SIF Zone URL, and a registered and configured agent will appear on the Agents tool. If this scenario applies, continue SIF setup by proceeding to [Setup SIF Data Access Rights](#), or return to the [SIF Configuration](#) page.



Creating a SIF Agent

To create a SIF Agent:

1. Navigate to the System Administration > Data Interchange > Agents tool.
2. Select the **New** icon from the action bar.
3. Enter a **Name** identifying the external application the SIF agent represents.

When the third-party application is a ZIS, the name of the emulated SIF agent in Campus should match that of the external ZIS agent being used for SIF data exchange.

4. Set the **Connection Type** to "Server."
5. (*Horizontal reporting only*) Enter the zone URL (copied from the URL for Communication field of the [Zones](#) tool) in the **URL of zone to push to/URL of zone to Pull from** field.
6. Click the **Save** button in the action bar to create the SIF [Agent](#).

At this point, the SIF Agent is not yet registered/configured for use, but will appear in the Agent List editor. Agent settings should not be modified at this time as future steps in the [SIF Configuration](#) process will complete setup.

To continue SIF setup, proceed to [Setup SIF Data Access Rights](#), or return to the [SIF Configuration](#) page.

SIF Agent Fields

The following table defines the fields available on the [Agent](#) screen:

Element	Description
Name	Represents name of Agent. The format for naming Campus agents is: <state><districtNumber><agentName> (E.g. MN062201Campus) ? For SIF agents, the name is flexible unless an Emulation agent requires a matching name for the ZIS environment in use.
Use Gzip on Send	Applicable to SIF messaging, but rarely used. Default to unchecked unless the issue arises.
Incoming Hostname/IP Address	Applicable to SIF messaging, and used to indicate the IP address or domain where the third party or emulated agent resides. This will be a required field for emulated agents (Connection Type = "Server").
Description	Agent details
Registered	Indicates whether agent is registered. Yes [true] No [false]
Sleeping	Indicates whether agent is sleeping Yes [true] No [false]
Status	Authorized [true] allows data exchange. Unauthorized [false] prevents data exchange.
Selective Blocking (SMB)	Selective Message Blocking (SMB) is a feature of SIF that allows an agent to halt the delivery of events so that the agent can request additional information about the object they just received. True [SMB used] False [SMB not used]
Subscribe Mode	Mode in which data is exchanged for that agent: Push [send] Pull [receive]
Connection Type	Determines the server mode: Agent Server (Indicates Agent Emulation mode will be used. The Agent Emulation Control panel will display when this mode is selected).

Element	Description
XML Language	<p>Specified language of communication:</p> <ul style="list-style-type: none"> • Infinite Campus (Defaulted to Campus language for Campus agents) • SIF1.1 • SIF1.5r1 • SIF 2.0r1 • SIF 2.1 • SIF 2.2 • SIF 2.3 • SIF 2.4 (Compatible) • SIF 2.5 (Compatible) • SIF 2.6 (Compatible) • SIF 2.7 (Compatible)
Max Buffer	Max amount of data sent in a packet.
URL of Zone to Push To/ URL of Zone to Pull From	URL from/to which the zone pushes or pulls information, depending on the specified subscribe mode.