

# 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:

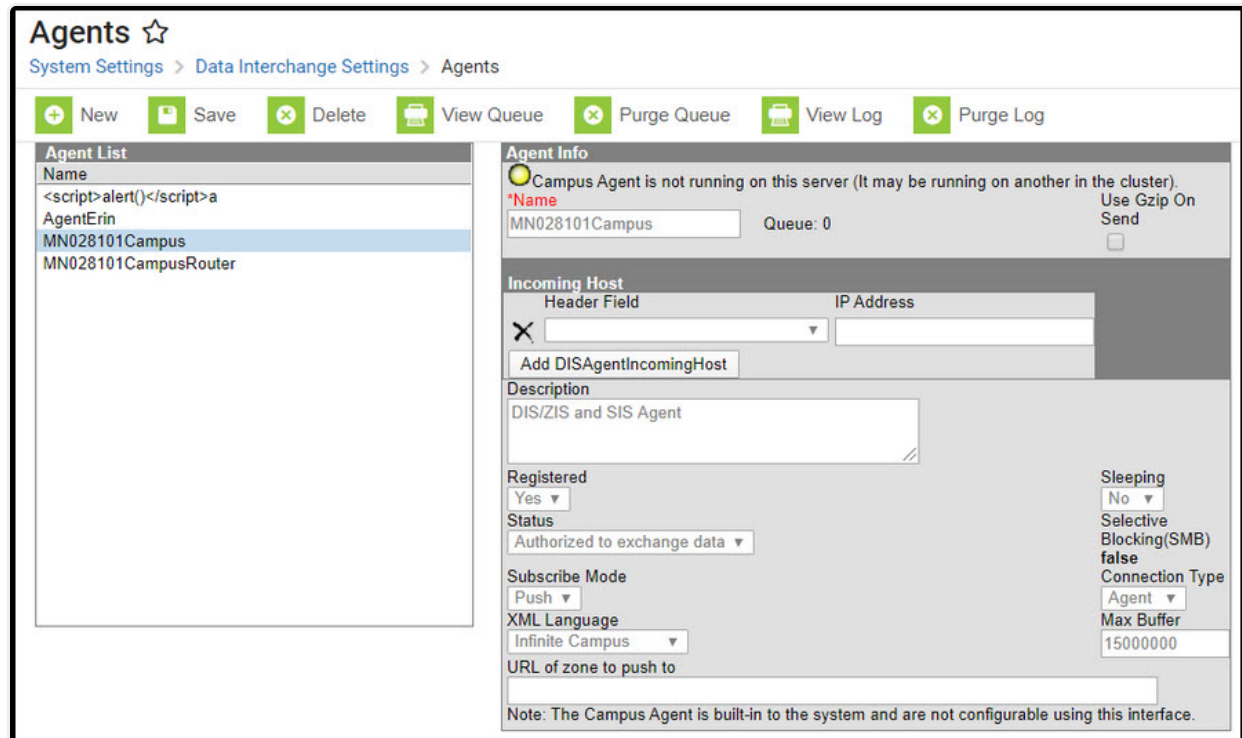
- [Setup School SIF Codes](#)
- [Setup SIF Grade Levels](#)
- [Setup SIF Zone](#)
- [Setup SIF Agent](#)
- [Setup SIF Data Access Rights](#)
- [Register Agent](#)
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Any vehicles for sending/receiving data must be registered in the Campus application 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.



**Agents** ☆

System Settings > Data Interchange Settings > Agents

**Agent List**

Name
<script>alert()</script>a
AgentErin
MN028101Campus
MN028101CampusRouter

**Agent Info**

☐ Campus Agent is not running on this server (It may be running on another in the cluster).

**Name**

**Queue:** 0

☐ Use Gzip On Send

**Incoming Host**

**Header Field**  **IP Address**

**Description**

**Registered**

**Status**

**Subscribe Mode**

**XML Language**

**URL of zone to push to**

**Sleeping**

**Selective Blocking(SMB)**

**Connection Type**

**Max Buffer**

Note: The Campus Agent is built-in to the system and are not configurable using this interface.

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: <b>&lt;state&gt;&lt;districtNumber&gt;&lt;agentName&gt; (E.g. MN062201Campus) ?</b>  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 ( <b>Connection Type</b> = "Server").
Description	Agent details
Registered	Indicates whether agent is registered. <b>Yes</b> [true] <b>No</b> [false]
Sleeping	Indicates whether agent is sleeping <b>Yes</b> [true] <b>No</b> [false]
Status	<b>Authorized</b> [true] allows data exchange. <b>Unauthorized</b> [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. <b>True</b> [SMB used] <b>False</b> [SMB not used]
Subscribe Mode	Mode in which data is exchanged for that agent: <b>Push</b> [send] <b>Pull</b> [receive]
Connection Type	Determines the server mode: <b>Agent</b> <b>Server</b> (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"> <li>• <b>Infinite Campus</b> (Defaulted to Campus language for Campus agents)</li> <li>• <b>SIF1.1</b></li> <li>• <b>SIF1.5r1</b></li> <li>• <b>SIF 2.0r1</b></li> <li>• <b>SIF 2.1</b></li> <li>• <b>SIF 2.2</b></li> <li>• <b>SIF 2.3</b></li> <li>• <b>SIF 2.4 (Compatible)</b></li> <li>• <b>SIF 2.5 (Compatible)</b></li> <li>• <b>SIF 2.6 (Compatible)</b></li> <li>• <b>SIF 2.7 (Compatible)</b></li> </ul>
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.