

# Register the SIF Agent

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**This article is designed for advanced technical users only** and is relevant to districts using SIF communication for data exchange.

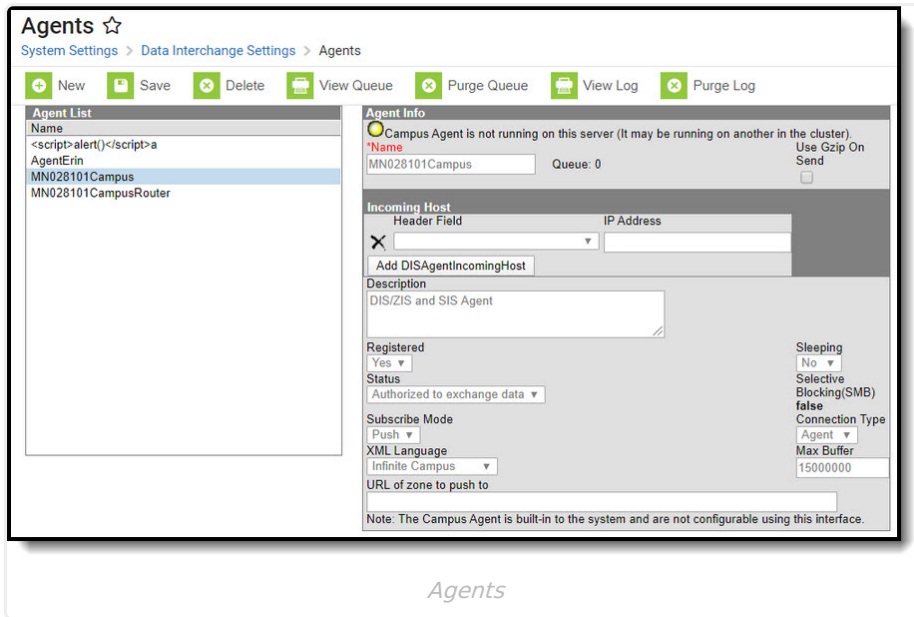
**This article is part of an ordered [SIF Configuration process](#) and applies to both methods of configuration ([Horizontal](#) and [Vertical](#)).**

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](#)

This article contains basic information and instructions for configuring communication between a Campus and SIF application. The basic process of configuring SIF communication follows these steps:

Only an advanced technical user should attempt to set up SIF communication.



## Registering SIF Agent

Before data can be exchanged, the SIF agent must send a registration message to the SIF zone. This process is triggered through the buttons on the Agent Emulation Control panel of the SIF agent.

In some instances of [Horizontal 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 to [Request Data Sync](#), or return to the [SIF Configuration](#) page.

Agents Editor

1. On the SIF agent, verify the **Registered** field is set to "Yes."
2. Verify the SIF zone is displayed in the **Zone Name** field.
3. This step only applies to SIF agents with a **Subscribe Mode** value of "Push."

If using Push mode and no value appears in the **Outgoing Host Override** field, enter the externally accessible IP address of the SIF application. When registering a SIF agent operating in Push mode, the URL is sent to the external zone. It will be a generated value based on the URL currently used to browse the site.

4. Click the **Register** button on the Agent Emulation Control panel. A *SIF\_Register* message will be sent to the SIF application, allowing it to identify the SIF agent acting on behalf of the Campus application. A new window should open.
5. Verify the new window displays an XML response from the SIF application. This is the *SIF\_Ack* message acknowledging a successful connection.

If registering for SIF 2.0r1, the response message will contain a *SIF\_AgentACL*, or data access rights for data objects that the Campus agent has been pre-approved to publish / the objects the SIF agent expects to receive. This is a SIF 2.0r1 feature, so previous SIF versions will not contain this data.

6. Click the **Save** button of the Campus action bar to save the newly registered agent.

## Data Provide and Subscribe

This section applies to [Vertical Reporting](#) scenarios only.

1. Select the agent and re-open it.
2. *For SIF versions 2.0r1 and later:* Click the **Provision (2.0r1)** button. This sends a *SIF\_Provision* message to the external SIF zone to let it know which objects the Campus agent will be publishing (and any to which the Campus agent should subscribe/receive updates from the SIF application)  
**OR,**  
*For SIF versions prior to 2.0r1:* first click the **Provide** button, then the **Subscribe** button.
3. Click **Save**.

From this point forward, data exchange is possible.

**To continue SIF setup, proceed to [Request Data Sync](#), or return to the [SIF Configuration page](#).**

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