The default installation of Kentico provides a sample integration connector. The connector implements **two subscriptions for outgoing tasks**:

- Synchronization of user objects
- Synchronization of all pages on all websites in the system

The connector's purpose is purely demonstrative – it only logs events in the **Event log** application for each creation, modification or deletion of a user or page.

Adding the sample connector to your web project

- 1. Open your Kentico installation directory (by default C:\Program Files\Kentico\<version>).
- 2. Expand the CodeSamples\CustomizationSamples\Classes\ sub-directory.
- 3. Copy the SampleIntegrationConnector.cs file into the CMS\App_Code folder of your web project.



Information for web application projects

If your Kentico project was installed as a web application, copy the sample file into the **Old_App_Code** folder instead.

You must also manually include the sample class files into the project:

- 1. Open your application in Visual Studio.
- 2. Click **Show all files** at the top of the Solution Explorer.
- 3. Expand the Old_App_Code folder, right-click the new file and select Include in Project.

Viewing the connector code

To see how the sample connector is implemented:

- 1. Open your web project in Visual Studio.
- 2. Expand the ~/App_Code/ folder and edit the SampleIntegrationConnector.cs class.

```
public class SampleIntegrationConnector : BaseIntegrationConnector
        #region "Initialization (subscribing)"
        /// <summary>
        /// Initializes the connector name and registers subscriptions.
        /// </summary>
        public override void Init()
                // Initializes the connector name (must match the code name of the
connector object in the system)
                ConnectorName = GetType().Name;
                // Creates subscription for all user objects (predefined method)
                SubscribeToObjects(TaskProcessTypeEnum.AsyncSnapshot, UserInfo.
OBJECT_TYPE);
                // Create subscription for all pages on all sites (predefined method)
                SubscribeToAllDocuments(TaskProcessTypeEnum.AsyncSimpleSnapshot,
TaskTypeEnum.All);
                // Demonstrates how to create subscriptions manually
                // ObjectIntegrationSubscription objSubscription = new
ObjectIntegrationSubscription(ConnectorName, TaskProcessTypeEnum.AsyncSnapshot,
TaskTypeEnum.All, null, PredefinedObjectType.USER, null);
                // SubscribeTo(objSubscription);
                // DocumentIntegrationSubscription pageSubscription = new
DocumentIntegrationSubscription(ConnectorName, TaskProcessTypeEnum.
AsyncSimpleSnapshot, TaskTypeEnum.All, null, null, null, null);
                // SubscribeTo(pageSubscription);
    }
```

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To be functional, every connector must have the **ConnectorName** property initialized in the *Init()* method. The value must match the code name of the connector object registered in the system. The sample connector uses the name of the ConnectorName – *SampleIntegrationConnector*.

The sample connector is defined in the App_Code folder, so the file contains code that allows the system to load the class when working with the connector — the **RegisterCustomClass** assembly attribute declared above the *SampleIntegrationConnector* class. See <u>Loading custom classes from App_Code</u> for more information.

```
[assembly: RegisterCustomClass("SampleIntegrationConnector", typeof
(SampleIntegrationConnector))]
```

The RegisterCustomClass attribute accepts two parameters:

- The first parameter is a string identifier representing the name of the connector class. The name must match the value of the **Class name** field specified for the given connector object in the system (*SampleIntegrationConnector* in this example).
- The second parameter specifies the type of the class as a **System.Type** object.

Registering the connector

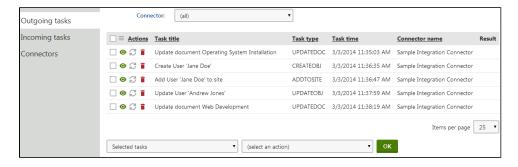
- 1. Open the **Integration bus** application in the Kentico administration interface.
- 2. Select the Connectors tab.
- 3. Click New connector.
- 4. Fill in the following properties:
 - **Display name**: Sample integration connector
 - Provider class Assembly name: (custom classes)
 - Provider class Class: SampleIntegrationConnector
 - Enabled: Yes (selected)
- 5. Click Save.

Testing the connector

- 1. Open the **Settings** application.
- 2. Select the Integration -> Integration bus category.
- 3. Adjust the settings as follows:
 - Enable system integration bus: Yes (selected)
 - Enable logging of outgoing tasks: Yes (selected)
 - Enable processing of outgoing tasks: No (cleared)
 - 0

The sample connector only generates outgoing tasks, so you can leave the handling of incoming tasks disabled. Disabling processing of outgoing tasks allows you to see the integration tasks in the user interface. If you enable processing, the system executes the tasks immediately, and you only see the results in the event log.

- 4. Click Save.
- 5. Try creating and modifying some pages and user accounts.
- 6. Open the **Integration bus** application. On the **Outgoing tasks** tab, you can see a list of tasks logged for your actions. The **Synchronize** (a) action is grayed out since processing of tasks is disabled in the system settings.



- 7. Go back to Settings -> Integration -> Integration bus, check Enable processing of outgoing tasks and click Save.
- 8. Return to Integration bus -> Outgoing tasks. The Synchronize (action is now enabled.
- 9. To execute all tasks:
 - a. Select All tasks in the first selector below the list.
 - b. Choose the **Synchronize** action.
 - c. Click OK.

You can see the events logged by the integration tasks in the **Event log** application.

