You can add integration connector classes into your application in two ways:

- In a separate project (assembly)
- In the App Code folder

Creating connectors in a separate project

- 1. Create a Class Library project in Visual Studio (for example name it CustomIntegrationConnector).
- 2. Add references to the Kentico libraries:
 - If the connector project is standalone, install the *Kentico.Libraries* NuGet package (see <u>Using the Kentico API</u> <u>externally</u> for details).
 - If you are adding the connector project to your Kentico solution, reference the DLL files directly:
 - i. Right-click the project and select Add reference...
 - ii. Click Browse...
 - iii. Add at least the following references from the project's *Lib* directory:
 - CMS.Base
 - CMS.DataEngine
 - CMS.DocumentEngine
 - CMS.Helpers
 - CMS.SiteProvider
 - CMS.Synchronization
 - CMS.SynchronizationEngine
 - CMS.WorkflowEngine
- 3. Edit and rename the default class in the project and set the class to inherit from **BaseIntegrationConnector**.
- 4. Override the Init() method and set the ConnectorName property within this method.
 - The value of the *ConnectorName* property must match the code name of the connector object registered in the administration interface.

```
using CMS.Synchronization;
using CMS.SynchronizationEngine;
public class CMSIntegrationConnector : BaseIntegrationConnector
{
    /// <summary>
    /// Initializes the connector name.
    /// </summary>
    public override void Init()
    {
        // Initializes the connector name (must match the code name of the
connector object in the system)
                // GetType().Name uses the name of the class as the
ConnectorName
                ConnectorName = GetType().Name;
    }
}
```

5. Build the solution.

With the connector class prepared, you now need to:

- Implement <u>outgoing</u> and/or <u>incoming</u> synchronization
- <u>Register the connector in the system</u>



Creating connectors in the App_Code folder

Kentico



- 1. Open your Kentico web project in Visual Studio (using the WebSite.sln or WebApp.sln file).
- 2. Create a new class in the App_Code folder (or Old_App_Code on web application installations).
- 3. Set the class to inherit from BaseIntegrationConnector.
- 4. Override the Init() method and set the ConnectorName property within this method.
- 5. Ensure that the system loads the appropriate class when working with the connector using the **RegisterCustomClass** assembly attribute. See <u>Loading custom classes from App_Code</u> for more information.

```
using CMS;
[assembly: RegisterCustomClass("CMSIntegrationConnector", typeof
(CMSIntegrationConnector))]
```

6. On web application projects, build the solution.

With the connector class prepared, you now need to:

- Implement <u>outgoing</u> and/or <u>incoming</u> synchronization
- Register the connector in the system

You can find an example of a basic connector class on the Example - Integration connector page.

Registering connectors in the system

Once the connector's class is ready, you need to register the connector as an object in the system:

- 1. In the Kentico administration interface, open the Integration bus application.
- 2. Select the **Connectors** tab.
- 3. Click New connector.
- 4. Fill in the **Display name**, **Assembly name** and **Class** and select the **Enabled** check box.

Property	Description
Display name	The name of the connector displayed in the user interface.
Code name	Sets a unique identifier for the connector. Must match the value of the ConnectorName property declared in the connector's class.
Provider class	 Specifies the class where the connector class is implemented: Assembly name - the assembly (project) containing the connector class. Select (<i>custom classes</i>) for connectors implemented in the App_Code (or Old_App_Code) folder. Class - the exact class (including any namespaces) that defines the functionality of the connector. For App_Code classes, the value must match the first parameter of the <i>RegisterCustomClass</i> attribute that loads the class.
Enabled	Indicates if the connector logs and processes integration tasks. Logging and processing of tasks must also be <u>enabled</u> in Settings -> Integration -> Integration bus .

5. Click Save.

Note: When you add, edit or delete a connector, the system re-initializes all defined connectors.

The system displays a warning icon (^(A)) next to connectors that are not registered correctly. The most common causes of problems are:

- The value of the **ConnectorName** property in the connector class's **Init** method does not match the **Code name**.
- Incorrect assembly or class name.
- App_Code classes are not loaded correctly. See <u>Loading custom classes from App_Code</u> for more information.