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# SharePoint 2013: Create a remote event receiver for external data

This documentation is preliminary and is subject to change.

Summary:  Learn how to create a remote event receiver that performs actions based on changes in external data.

## Description of the Create a remote event receiver for external data sample

This project will show how to use Visual Studio 2012 and SharePoint development tools in Visual Studio 2012 to create an app for SharePoint using Business Connectivity Services (BCS) to expose complex data from an external system.

This sample will show you how to create a remote event receiver that attaches to an external data list, and based on actions performed on that list, will add an entry to a secondary SharePoint list.

The main objectives for this sample are:

* Set up and use the simulated, self-hosted OData service to provide data that the auto-generation tools in Visual Studio 2012 can use to create external content types
* Create a new app for SharePoint
* Create an external content type that describes data from the self-hosted OData service.
* Create two external lists- One for reading data from the external data source, and one for tracking notifications of changes to that underlying data.
* Create an remote event receiver that will monitor changes to the external list and execute conditional code that will add a record to the Notifications list.

When the data in the self-hosted OData service changes, you will see a new record created in the Notifications list

## Prerequisites

This sample requires the following;

* SharePoint 2013 Preview
* Visual Studio 2012
* SharePoint development tools in Visual Studio 2012
* Internet Information Services (IIS)

## Key components of the sample

The SampleBCSApp.zip and RemoteEventReceiver.zip files include the following:

* Visual Studio project files
* Local OData service (CannedDataService)

## Configure the sample

In order to run the samples included in this project, you will need to do the following:

1. Extract the SampleBCSApp.zip and RemoteEventReceiver.zip files to your hard drive.
2. Copy the RemoteEventReceiverConsoleApp to your hard drive
3. Start the simulated OData service. This service is hosted by a local instance of IIS. It simply attaches to a port in IIS and provides an OData endpoint that you will use in your app
4. Open the Visual Studio project files in Visual Studio

## Build the sample

Follow these steps to build the sample.

* Click F5

## Run and test the sample

When you click F5 to deploy, that will run the new app. Then, you can view the records displayed, create new ones, and modify existing.

## Troubleshooting

If you cannot get the “Canned” data service to work, make sure that all the files are in the same folder on your hard drive.

## Change log

First release.

## Related content

* [External content types in SharePoint 2013](http://msdn.microsoft.com/en-us/library/11d7adb5-5388-4517-ae03-beb7be1c6981)
* [Using OData sources with Business Connectivity Services in SharePoint 2013](http://msdn.microsoft.com/en-us/library/7a87e5bf-4428-4055-b113-7665a93e7326)
* [Setting up a SharePoint 2013 development environment for apps](http://msdn.microsoft.com/en-us/library/b0878c12-27c9-4eea-ae3b-7e79e5a8838d)
* <http://www.odata.org>