Contents

[SharePoint 2013: Create external list based on app scoped external content type 2](#_Toc328126405)

[Description of the Create external list based on app-scoped external content type sample 2](#_Toc328126406)

[Prerequisites 2](#_Toc328126407)

[Key components of the sample 2](#_Toc328126408)

[Configure the sample 3](#_Toc328126409)

[Extract the SampleBCSApp.zip files to your hard drive 3](#_Toc328126410)

[Start simulated OData service 3](#_Toc328126411)

[Create a new app in Visual Studio 3](#_Toc328126412)

[Create the external content type 4](#_Toc328126413)

[Create an external list 4](#_Toc328126414)

[Build the sample 4](#_Toc328126415)

[Run and test the sample 5](#_Toc328126416)

[Troubleshooting 5](#_Toc328126417)

[Change log 5](#_Toc328126418)

[Related content 5](#_Toc328126419)

# SharePoint 2013: Create external list based on app scoped external content type

This documentation is preliminary and is subject to change.

Summary:  In this sample you will learn how to create a new external content type based on an OData source and an external data list to display the data from the external system.

## Description of the Create external list based on app-scoped external content type sample

This sample will demonstrate how to use SharePoint 2013 Preview and the new tools in Visual Studio 2012 to specify a local OData source and then discover the details like connection information, table structures, data types, and methods with which you can interact with the underlying data (create, read, update, delete, as well as other custom methods).

From that data source, Visual Studio 2012 will automatically generate an external content type that can be deployed to SharePoint 2013 Preview as an app-scoped external content type that can be used within the app only.

Once you have created the external content type, this sample will demonstrate how to create an external list programmatically with Visual Studio 2012, based on the external system data. The external list will allow SharePoint 2013 Preview to surface the data from the external system within a familiar SharePoint list format.

Finally, you will use the built-in SharePoint 2013 Preview list editing forms to perform create, read, update and delete functions on the underlying data in the external system.

## Prerequisites

This sample requires the following;

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

## Key components of the sample

The SampleBCSApp.zip file includes 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 file to your hard drive.
2. 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
3. Open the Visual Studio project
4. Build and deploy the sample
5. Test the app by creating and modifying records

## 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.

1. Add a new item to the list by clicking on the add link.
2. Select a record and delete it
3. Modify a record.

## 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>