





MVC Web Applications Integration with Business Central SOAP

Business Central supports two types of web services: SOAP and OData. Web services are a lightweight, industry-standard way to make application functionality available to a variety of external systems and users.

SOAP web services allow full flexibility for building operation-centric services. They provide industry standard interoperability.

In this document, we will share information around the following 4 scenarios.

<u>Scenario 1</u>: Fetch all <u>Companies</u> names using Business Central Web Services List and display results on a Web Page.

<u>Scenario 2</u>: Read Item List from Business Central Web Services and show results on Web Page.

<u>Scenario 3</u>: Insert a New Item from web page into Business Central Item Table via BC Webservice.

<u>Scenario 4</u>: Insert a New Item list from SQL Server database table into Business Central (avoiding duplicacy) using Web and display result on web page.





Below link returns the list of Business Central Soap Web Services available:

https://api.businesscentral.dynamics.com/v2.0/25999968-9620-453c-9568e954b360a045/Production/WS/Services



Companies: This web-service returns all the companies

https://api.businesscentral.dynamics.com/v2.0/25999968-9620-453c-9568e954b360a045/Production/WS/SystemService?tenant=msft1a6720t50585844&aid=FI N







Item List: Below web-service returns item list

https://api.businesscentral.dynamics.com/v2.0/25999968-9620-453c-9568e954b360a045/Production/WS/CRONUS%20USA,%20Inc./Page/ItemList?tenant=msft1a672 0t50585844&aid=FIN

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Note: To access Business Central Web service you need to supply Business Central User name in username and for password you can use Web service access key.

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You can find Business Central user name and web service access key from business central User section. (Search user in Business Central)







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How to find Web Services in Business Central?

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Step 1: Open Business Central and search Web Services







<u>Step 2:</u> Select 'item list' and 'item card' web service or any other services that you need from Web Service section.

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Create project in Asp.net MVC

Step 1: Create a New MVC web application Project "MVCtoBC"

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Step 2: Add a Web Reference to Services.

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<u>Step 2.1</u>: Add Web Reference, go to Solution Explorer, right click on Reference, and select Add Service Reference -> Select Advanced option -> Select Add Web Referenceoption. Then enter your Web Service URI and press enter. You can enter your web reference name.









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Enter your Web Service URI in URI section and press enter or arrow key.



Step 3: Add code in HomeControllerto get BC companies using web services.









Get CompanyList (HomeController)

You need to use these include:

- System.Web, System.Web.Mvc and others, all the exposed Web Service one by one
- You have to define User, Password for connection to Web Services



Define the URL Connection, User and Password

URL Connection Sample and Service Login example

systemService.Url = "https://api.businesscentral.dynamics.com/v1.0/<TenantID>/WS/Syste mService?tenant=<tenant>=FIN"

NetworkCredential nc= new NetworkCredential("user", "password")





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Step 4: Now add View to display Company list

Index View (View to display company List)



Layout.cshtml add menu in Layout.cshtml view









Web Config



Step 5: Now Run your code to see the result

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Step 6: GetItemList ()

You can define "GetItemList" function in **HomeController** to retrieve data from the ItemList exposed Web Service.







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View: To Display Item List we used Showdata view









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Step 7: Createltem:

On HomeController.cs you can recall the "AddItem" function exposed by Web Service

Step 7.1: Add Model Item.cs class

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Step 7.2: Add code in Home Controller



Step 7.3: Add AddItem.cshtml View to insert new item









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<u>Step 8:</u> Insert a New Item list from SQL Server database table to Business Central

<u>Step 8.1</u>: Create a new database "BCDB" in SQL Server







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<u>Step 9:</u> Now add BCDBModel.edmx ADO.NET Entity Data Model in visual studio.

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<u>Step 10</u>: Now follow the Below steps of screenshots.

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# Web Config

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#### Step 11: GetItem from SQL Table (Home Controller)



#### Step 12: Add Code in Home Controller to Add items from SQL table to Business Central









#### <u>Step 13:</u> EditBcItem method to update the status to get only new record (handling data)



<u>Step 14:</u> Call EditBCItem method in AddItems method to manage already existing data or records.



Step 15: Add button in Showdata view page to add table records in Business central









# **Results: Run your Code**

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# 4. Add Items from table to Business Central

Click on Add New Items button to add items from SQL table to Business Central

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#### Web page result

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# 5. Get Table Item List

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© 2020 - Augurial MVC to Essenance Central Application







- 1. GetCustomerList():- You can define "GetCustomerList" function in HomeController to retrieve data from the CustomerList exposed Web Service.
- 1.1. Customer List Web service:

https://api.businesscentral.dynamics.com/v2.0/25999968-9620-453c-9568e954b360a045/Production/WS/CRONUS%20USA,%20Inc./Page/CustomerList?tenant=msft1a6720t50 585844&aid=FIN

#### 1.2. <u>HomeController:</u> Add code in HomeController.



#### **1.3.** <u>View:</u> To Display Customer List we used ShowCustomer view











#### 2. Create Customers:

On HomeController.cs, you can recall the "AddCustomer" function exposed by Web Service.

#### 2.1. CustomerCard Web Service:

https://api.businesscentral.dynamics.com/v2.0/25999968-9620-453c-9568e954b360a045/Production/WS/CRONUS%20USA,%20Inc./Page/Customer?tenant=msft1a6720t505858 44&aid=FIN

#### 2.2. Model: Add Model CustomerModel.cs class









#### 2.3. Add code in Home Controller



#### 2.4. View: Add view to Add Customer









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![](_page_35_Figure_4.jpeg)

## 2.5. Web Config:

![](_page_35_Picture_6.jpeg)

![](_page_36_Picture_1.jpeg)

![](_page_36_Picture_2.jpeg)

**3.** <u>GetSalesOrderList()</u>: You can define "GetSalesOrderList" function in HomeController to retrieve data from the SalesOrder List exposed Web Service.

#### 3.1. Sales Order Web Service:

https://api.businesscentral.dynamics.com/v2.0/25999968-9620-453c-9568e954b360a045/Production/WS/CRONUS%20USA,%20Inc./Page/SalesOrder?tenant=msft1a6720t5058 5844&aid=FIN

**3.2.** Controller: Add code in Controller.

![](_page_36_Picture_7.jpeg)

## 3.3. View: Add View to display Sales Orders.

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#### 3.4. Layout.css:

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![](_page_38_Picture_1.jpeg)

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#### 3.5. Web Config:

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#### Result:

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#### Business Central Customer List

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56000	School of Fille Art	00	37123	insugari bond@contiso.com
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#### **Business Central Customer List**

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1006	Setuccol First Art	.05	307105	mages bont @comes.com
0006	Apine Ibi Heate	wa	81772	an debers@curtais.com
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# **Customer Added in Business Central**

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# 3. Get Sales Order:

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