

Unit 5: SAP Business One Development Tools

Contents:

- SAP Business One Workflow
- SAP Business One Studio Suite

- This unit is a short outline and will give you an overview on component level.
- In addition it will show how SAP uses the SDK for extensions (i.e. „Add-Ons“) to SAP Business One.

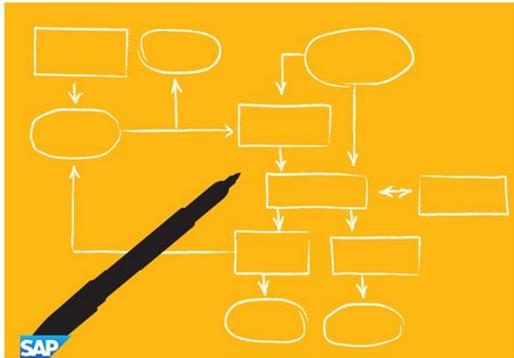
SAP Business One Development Tools: Unit Objectives



At the conclusion of this unit, you will be able to describe and explain:

- SAP Business One Workflow
- SAP Business One Studio Suite

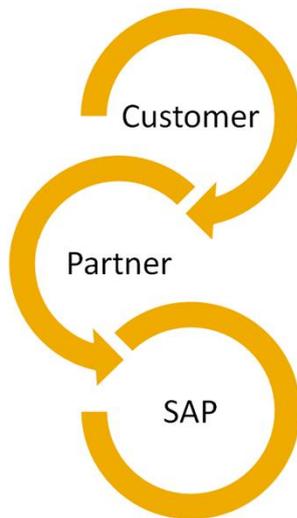
Introduction



New SAP Business One Workflow enables user **collaboration** and **business process management** from process definition, process execution and process tracking in an easy and effective way.

It brings **instant value** to customer, including increase process transparency, user productivity and communication efficiency. Meanwhile it also provides partners more **extensibility** capability to create best practice processes for certain industries.

Value Proposition

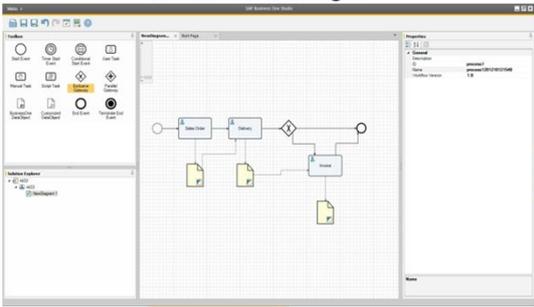


- Process transparency and standardization.
- Increase user productivity and communication efficiency.
- Effective process controlling.

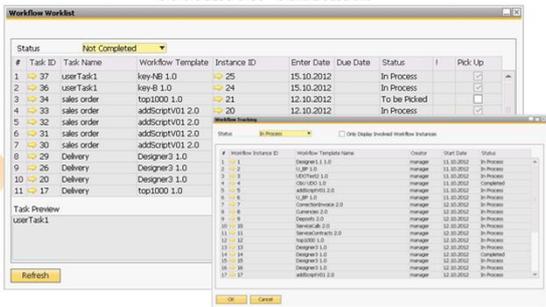
- More extensibility to create differentiation.
- Make best practice process and implement to customer.

- SAP Business One Workflow is a new platform that enables users to define workflows and corresponding business processes in Business One. It aims to provide greater process transparency and standardisation across Business One increasing user productivity and promoting greater collaboration and efficient communication. This platform is an effective way to control processes.

SAP Business One Workflow

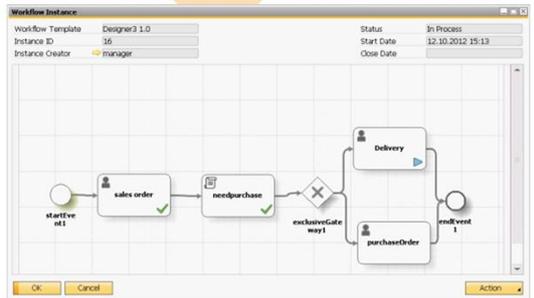


Workflow Manager



Workflow Worklist





Workflow Instance

4 components:

- Workflow Manager – manages the workflow process template and imports XML generated in the workflow designer. Inside SAP Business Studio.
- Workflow Instance – starts the process based on the workflow template and visualizes the process to inform end users of the process status.
- Workflow Worklist – user finds and picks up a task
- Workflow Monitor – checks the status of all process instances
- More info → <http://sapartneredge.com/B1/howtoguides>

There are two main components to Business One Workflow:

- The first step is to Design your workflow in the SAP Business One Studio and visualize your process
- The next step is the User 'Task list'- the workflow is imported into SAP Business One as a task list in a workflow inbox for execution and monitoring
- Process visualization provides transparency
- Supported by a Workflow Engine (windows service installed from SAP Business One Server Tools)
- Workflow in SAP Business One – to enable end users to operate workflow in the following features:
 - Workflow Manager: manages the workflow process template and imports XML generated in the workflow designer
 - Workflow Instance: starts the process based on the workflow template and visualizes the process to inform end users of the process status
 - Workflow Worklist: finds and picks up the task
 - Task Detail: processes a task
 - Workflow Monitor: checks the status of all process instances

SAP Business One Workflow: Business Example

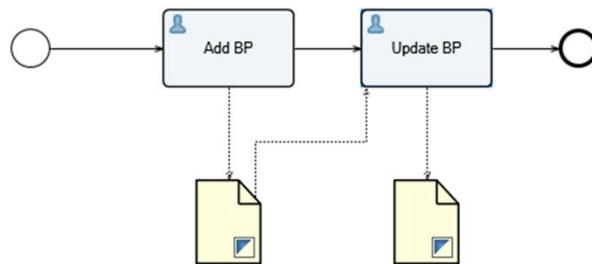


OEC Computers has dedicated users responsible for financial relevant data at Business Partner Master Data.

Therefore, once new Business Partner Master Data is created the responsible user should get a task to check and complete the financial data at this new Business Partner Master Data.

Bryce the accountant, wants to get full control of new business partners created in the system.

You tell him about the *Workflow* solution in SAP Business One.



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- Therefore, once new Business Partner Master Data is created the responsible user should get a task to check and complete the financial data at this new Business Partner Master Data.
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- You tell him about the *Workflow* solution in SAP Business One.

SAP Business One Studio Suite

Set of tools to extend SAP Business One, from customization to extension development.

SAP Business One Studio (abbr. Studio)

- Out-of-the-box solution included in SAP Business One, where you can design the layout of your add-on.
- It is an upgraded version of Screen Painter and an open platform for other designers, such as Workflow Designer.

SAP Business One Studio for Microsoft Visual Studio

- Development environment highly integrated with Visual Studio 2010 to achieve high satisfaction for partner developers, speed up B1 Add-On development efficiency & learning curve
- Partners can develop add-ons with full capability such as UI design, code generate, debug, build, and deployment.

SAP Business One Studio Suite - Target Users

Developer



Consultant



Customer IT



UX Designer

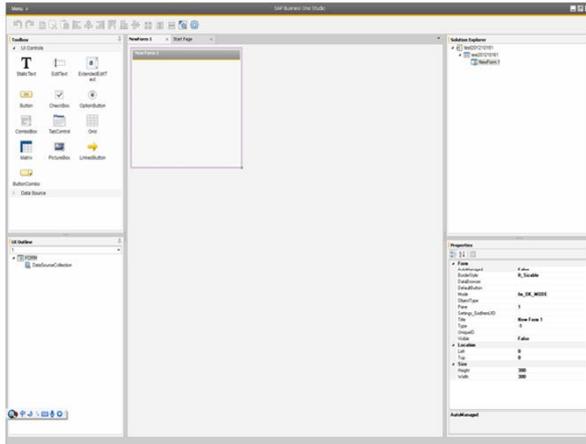


Suite

SAP Business One Studio for Microsoft Visual Studio

SAP Business One Studio

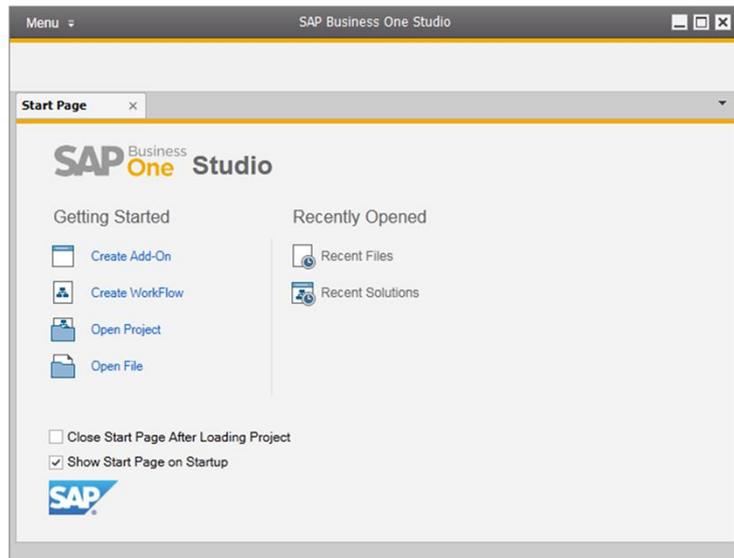
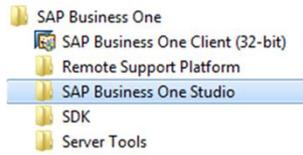
SAP Business One Studio - Highlights



- Reduce development effort
- Offer better user experience by drag & drop
- Cover user/UDO/system forms (compatible screen painter file format)
- Open platform for functions like SAP Business One Workflow

SAP Business One Studio – Start up

All Programs menu -> SAP Business One -> SAP Business One Studio.



SAP Business One Studio – New Project

New Project

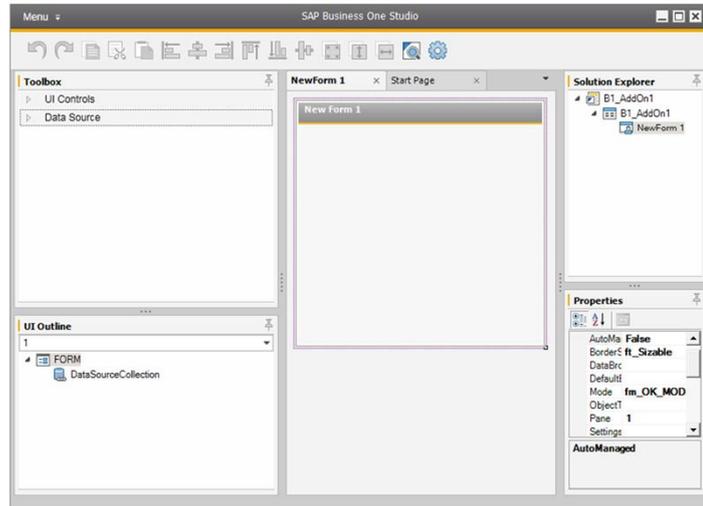
Name: B1_AddOn1

Folder: C:\B1\SDK\B1Studio\AddOns **Browse...**

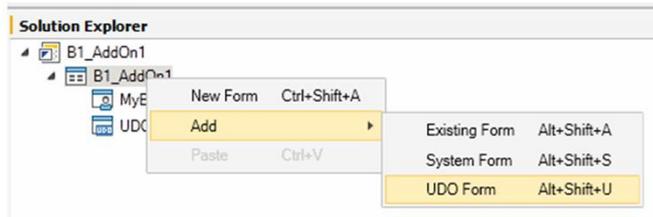
Package Name: B1_AddOn1 .b1s

Create Empty Project

OK **Cancel**

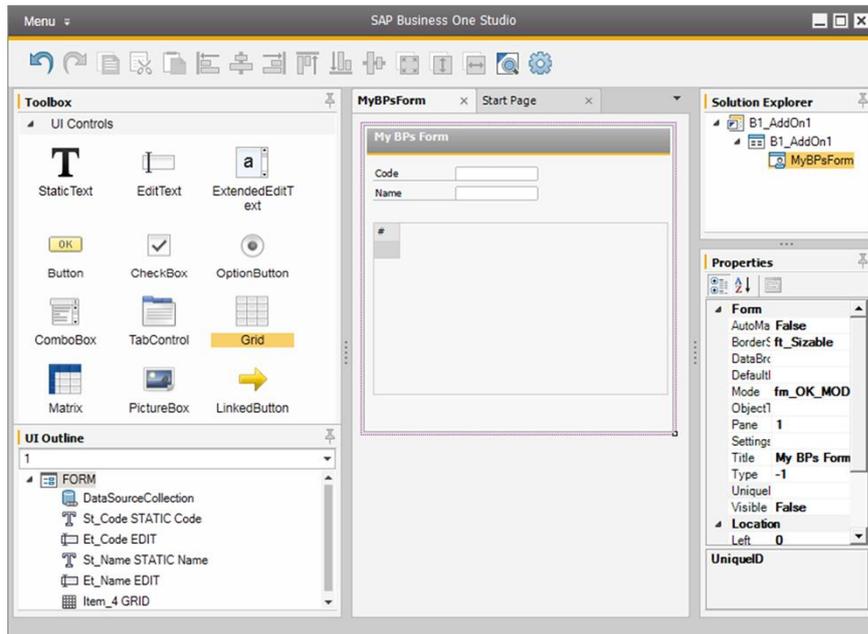


SAP Business One Studio –UI Forms

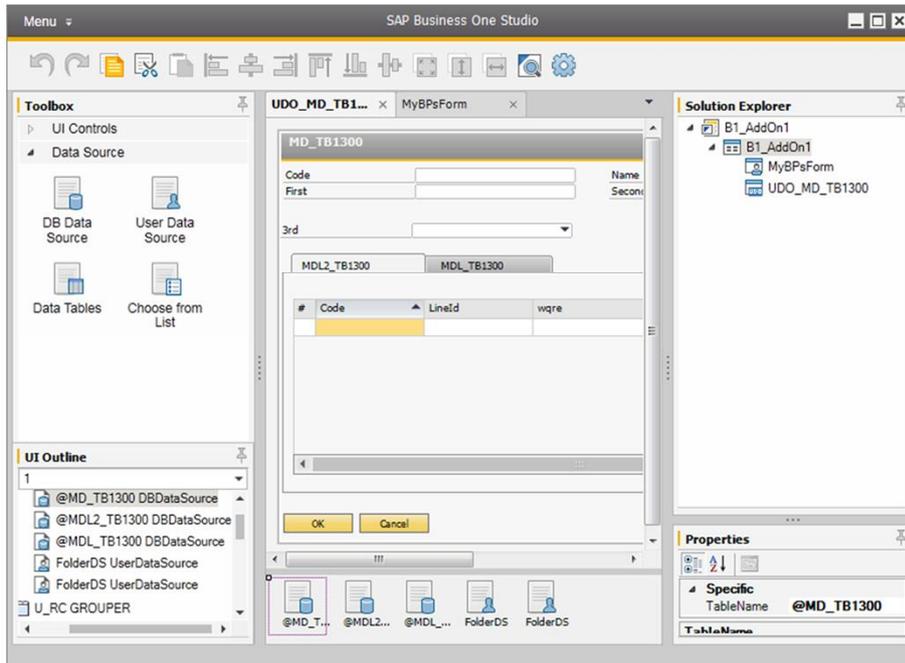


- Create a New Form
- Modify and existing form
 - Existing Form open in B1
 - System Form (needs to be open in B1)
 - UDO Form

SAP Business One Studio – Create new UI Form

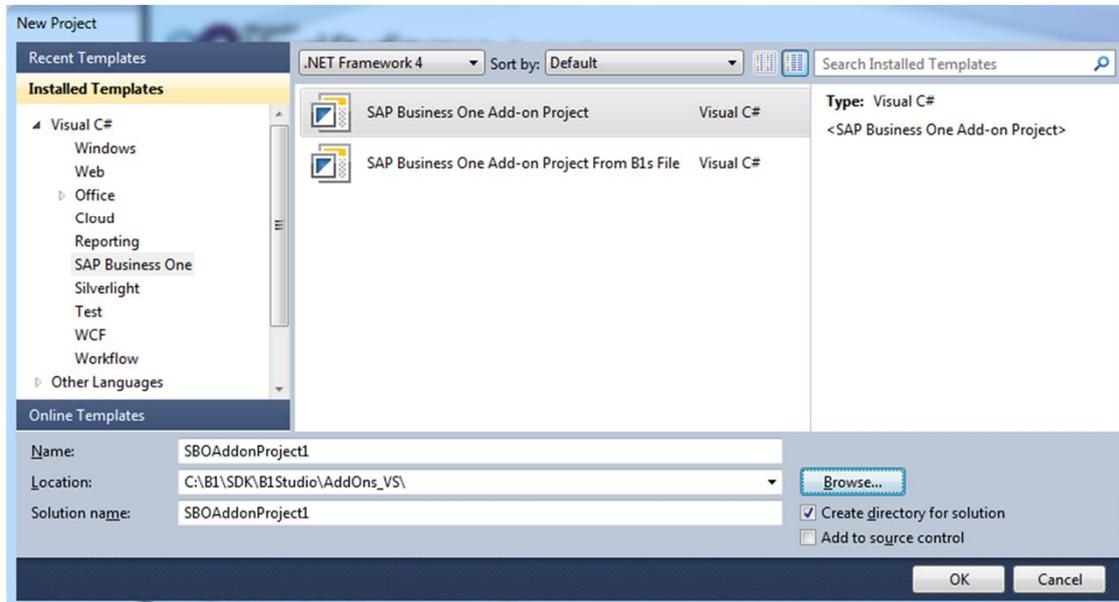


SAP Business One Studio – Data Sources



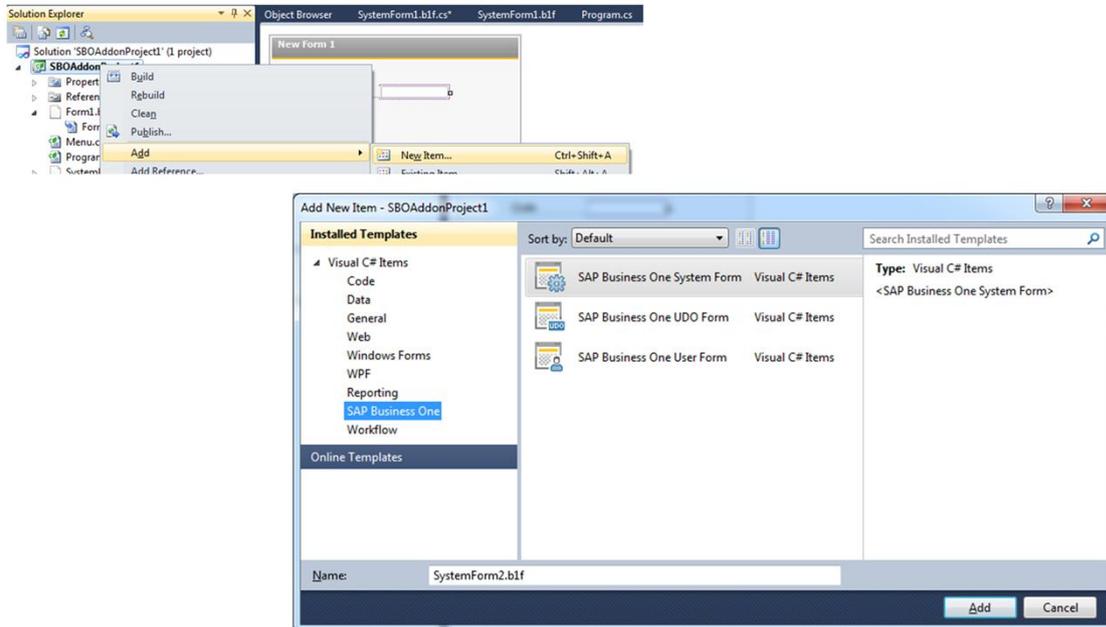
SAP Business One Studio for Microsoft Visual Studio

Started from Microsoft Visual Studio -> New Project

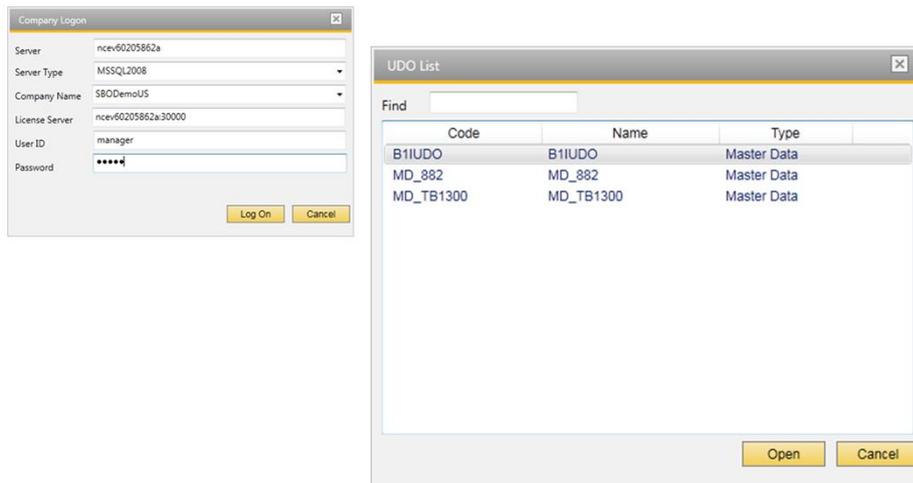


SAP Business One Studio – Add New Item

Select your project -> Add New Item.

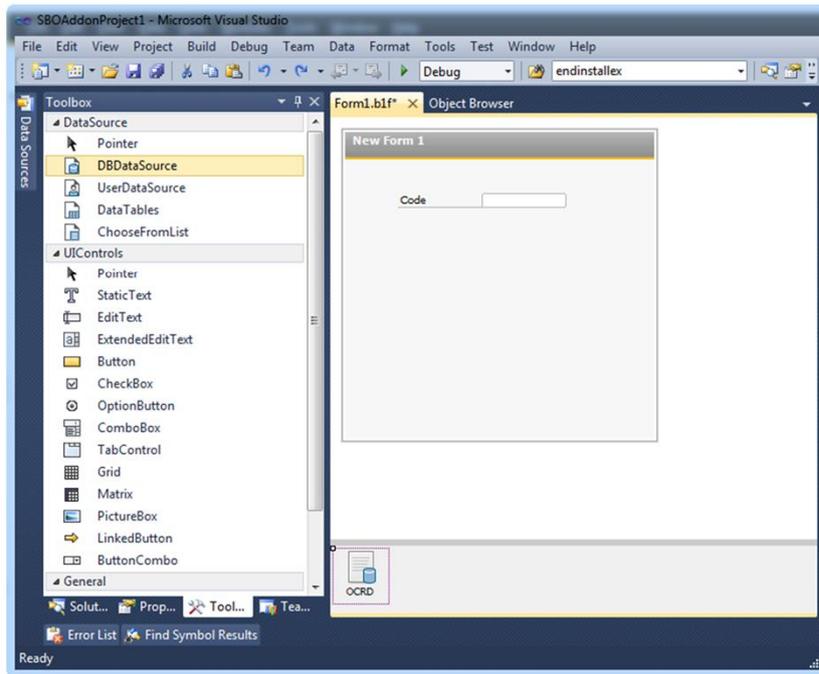


SAP Business One Studio – Add New UDO Form



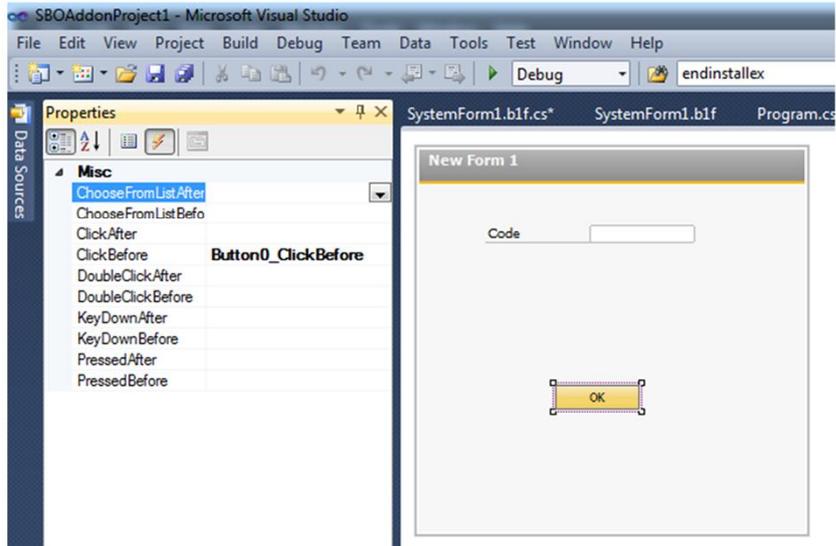
The corresponding UDO Form will be open for editing once you select a specific UDO from the list.

SAP Business One Studio – UI Forms designer (I)



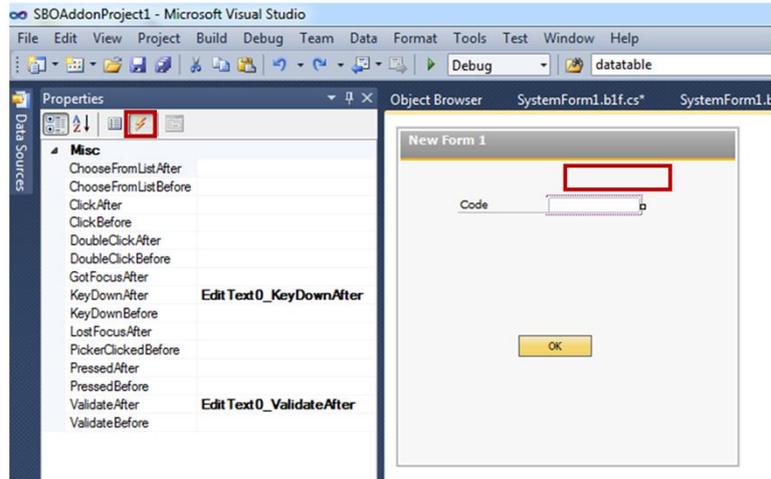
SAP Business One Studio – UI Forms designer (II)

Started from All Programs menu.



SAP Business One Studio – Events

Select the Item -> Properties -> Select Event Icon



- Double click on the selected Event type to have a new method created
- or
- Select one of the available methods if a combobox is proposed.

Typical Use Cases

- Case1: *consultant* designs a Add-On form in Studio, a *developer* programs this form in Studio for VS.
- Case2: *customer IT* designs and implement a UDO in Studio for VS.
- Case3: *developer* implements a Add-On from scratch in Studio for VS.
- Case4: consultant/UI designer draw a form in Studio; a developer loads it by raw API.
- Case5: continue developing old SRF generated from ScreenPainter in Studio for VS.