

Quick View Insider: How Do I Create My Own Building Block?



Applies to:

SAP SNC (Supply Network Collaboration) release 7.0 enhancement pack 1

For more information, visit the [Supply Chain Management homepage](#).

Summary

This article explains the interface to code against if you would like to create your own quick view building blocks from scratch. Additionally it guides you through 3 examples how to create your own building block with very little coding of your own.

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Author Bio



I have been part of the SNC development team in Palo Alto since 2004. Overall I have been a developer at SAP in Germany, Japan, and California since 1997 and at Software AG in Germany since 1989. I hold a masters degree in industrial engineering and computer science.

Table of Contents

WebDynpro Interface for Quick View Building Blocks	3
Introduction to Examples	3
Example 1: Display a Large Web Site in a Building Block	4
Example 2: Display a Small Web-Gadget in a Building Block	7
Example 3: Re-Use the Quick View Modules to Display Your Own Key-Figures	8
Related Content	12
Copyright	13

WebDynpro Interface for Quick View Building Blocks

Technically the building blocks of quick view are WebDynpro components that implement WebDynpro interface `/SCF/WD_CI_MYS`. This interface controls the communication between the quick view framework and the building block itself.

It consists of:

- Interface view *MAIN*
- Methods
 - *INITIALIZE*
called when the component is instantiated by the framework
 - *REFRESH*
called to read or re-read the data
- Event *NAVIGATE*
with which the component can request navigation to another screen.

Any WebDynpro component that implements this interface can be plugged into quick view as a building block. While this gives you a high degree of flexibility, it requires WebDynpro knowledge.

Introduction to Examples

If you prefer not to code your own building block from scratch, the following examples provide you with two ways to re-use delivered modules.

In the first two examples, you make use of a WebDynpro component that was explicitly delivered as a copy template, so you can easily create a building block that displays a web-site (for example, your terms and conditions) or a web-gadget (for example one that tracks deliveries). You copy this component, enter the URL of your web-site/-gadget and – if necessary – adjust the size of the box.

In the third example you re-use the standard quick view building block that renders key-figures in chart or table format (WebDynpro component and feeder class) and provide only the class that delivers the numbers (access class).

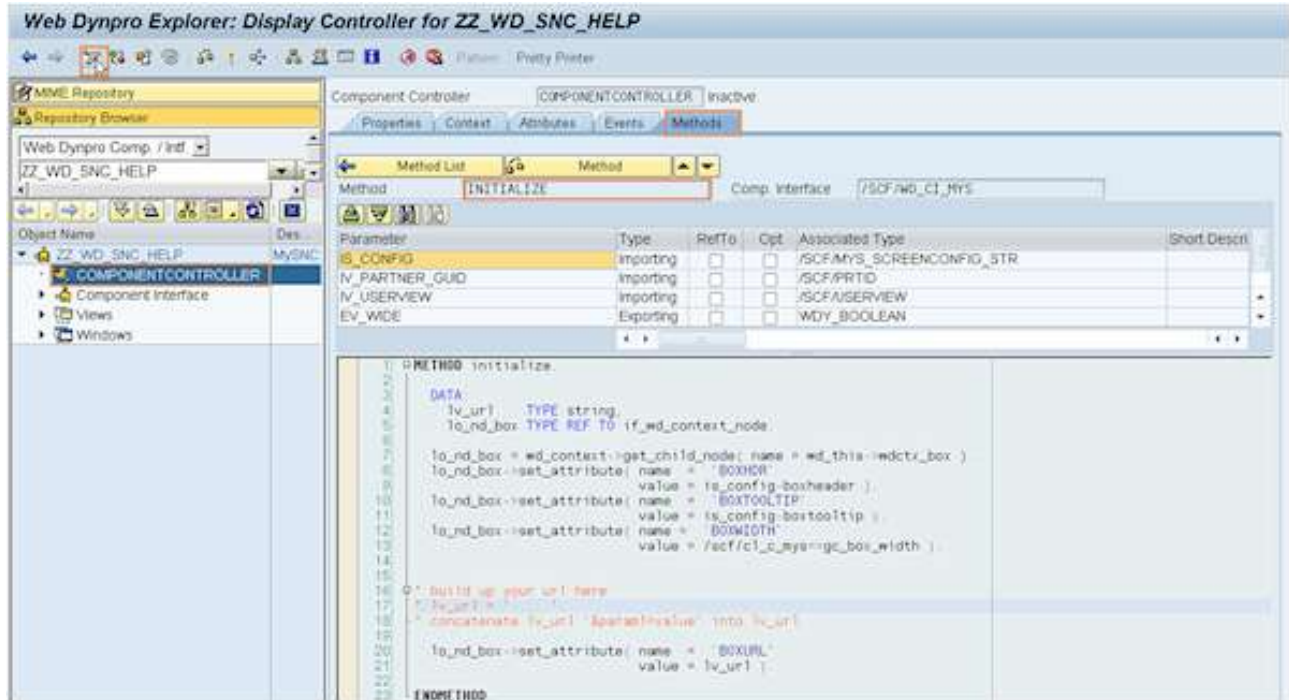
Example 1: Display a Large Web Site in a Building Block

The screenshot shows the SAP Quick View interface. At the top, it displays 'Quick View' and 'Supply Network Collaboration - ZIMMERMANCOR - Business Partner: CARPENTER'. Below this, there are navigation tabs for 'Quick View', 'Microblog (3)', and 'SNC Help'. The main content area is titled 'SAP Documentation' and shows a document titled 'System Landscapes and Required Components for Running SAP SNC'. The document content includes sections for 'Deployment Options', 'SAP SNC as Add-On to SAP NetWeaver', 'SAP SNC as Part of a Full SAP SCM Server Installation', and 'Functions Requiring SAP APO'. A left-hand navigation pane lists various SAP SNC components like 'Master Data', 'Exception Management', 'Demand', etc.

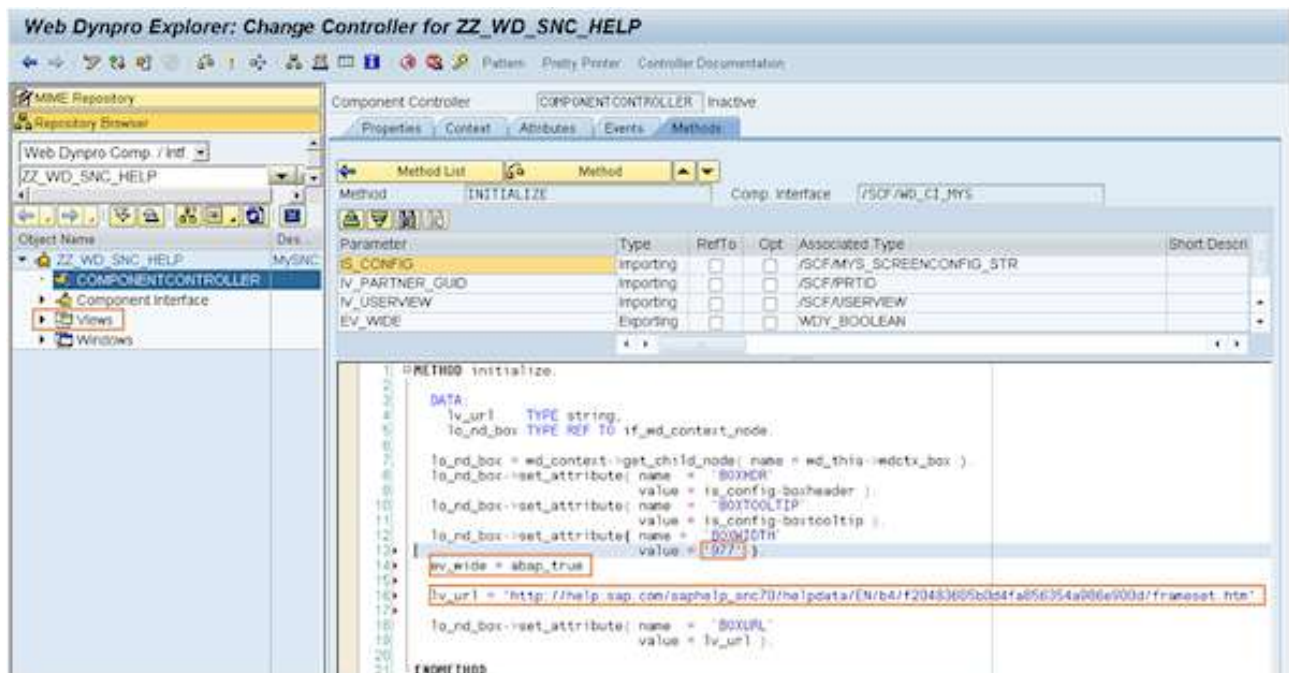
Call transaction SE80, display WebDynpro Component /SCF/WD_MYS_URLBOX_4_COPY, and copy the whole component:

The screenshot shows the SAP Object Navigator interface. The 'Object Navigator' window displays the hierarchy for the component '/SCF/WD_MYS_URLBOX_4_COPY'. A context menu is open over the component, with the 'Copy' option selected. A dialog box titled 'Copy Web Dynpro component' is also visible, showing the 'Name of Original' as '/SCF/WD_MYS_URLBOX_4_COPY' and the 'Name of Copy' as '/SCF/WD_MYS_URLBOX_4_COPY'.

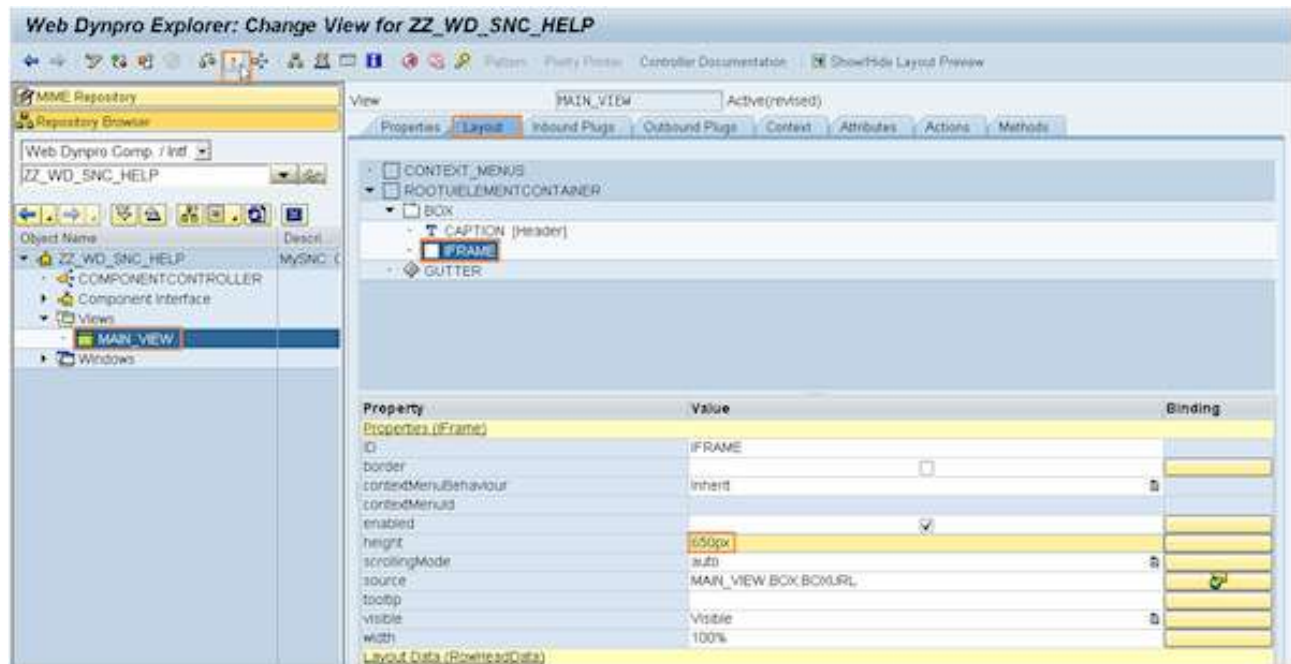
Editing your copy, open the component controller, switch to the *Methods* tab, and double click on method *INITIALIZE* and switch to edit mode:



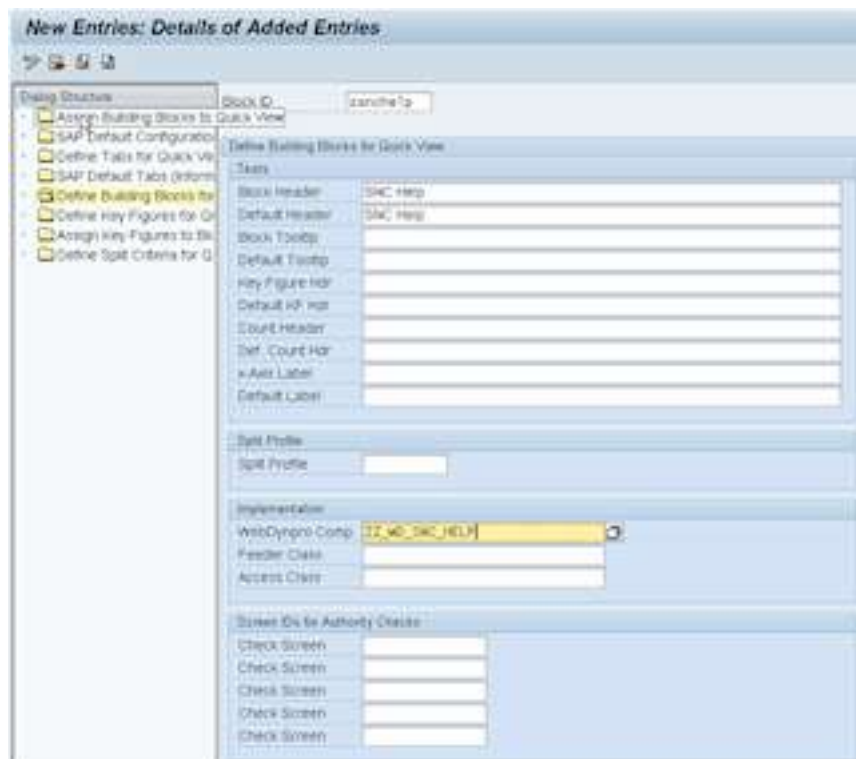
Change the attribute that is set for *BOXWIDTH* to '977' (for the same width as microblog), put the URL of the web-site you want to display in field *lv_url*, and set the export parameter *ev_wide* to **abap_true**:



Switch to *Views > MAIN_VIEW* and tab *Layout*, where you navigate to screen element *IFRAME* and change the *height* of the UI element as needed, in this example to **650px** (the following screenshot is taken with the Layout Preview hidden); activate the entire component:



Configure a new building block with this component (transaction `/n/SCF/MYSCFG`):



Then assign the building block to quick view, for a wide block like this, maybe create a dedicated tab (refer to article *Understanding Quick View Configuration* for more information on how to assign your building block to quick view).

Example 2: Display a Small Web-Gadget in a Building Block

The screenshot displays the Quick View interface for Supply Network Collaboration - ZIMMERMANCOR - Business Partner: CARPENTER. The interface includes a navigation bar with options like Exceptions, Release, Purchase Order, Replenishment, Delivery, Invoice, Master Data, and Tools. The main content area is divided into several sections:

- PO: Items To Be Confirmed by Change Date:** A bar chart showing 26 items for 'All' and 'New' categories, with 'Changed' items at 0. Below the chart is a table with columns for PO Item Status and Filter Settings.
- Tracking:** A map showing a route from Washington to California, with a 'Track It' button and a 'Delete' button.
- Purchasing Documents Due for ASNs by ASN Due Date:** A bar chart showing 40 items for 'Past Due' category, with 'Due Today', 'Due Within 7 Days', and 'Due Within 30 Days' categories at 0.
- PO Alerts by Alert Creation Date:** A bar chart showing 1 alert for 'Late Confirmation' and 26 items for 'New Item'.

To create this example, follow the steps for example 1. When you edit component controller-method *INITIALIZE*, you don't change the value for attribute *BOXWIDTH* and don't set the export parameter *ev_wide*. The URL you provide in variable *lv_url* should point to a gadget that fits into a regular quick view box:

```

1  METHOD initialize.
2
3  DATA:
4    lv_url TYPE string.
5    lo_nd_box TYPE REF TO if_wd_context_node.
6
7    lo_nd_box = wd_context->get_child_node( name = wd_this->wdctx_box ).
8    lo_nd_box->set_attribute( name = 'BOXHDR'
9                            value = is_config-boxheader ).
10   lo_nd_box->set_attribute( name = 'BOXTOOLTIP'
11                           value = is_config-boxtooltip ).
12   lo_nd_box->set_attribute( name = 'BOXWIDTH'
13                           value = /scf/cl_c_mys=>gc_box_width ).
14
15
16 * build up your url here
17 lv_url = 'http://www.gmodules.com/ig/ifr?url=http://www.packagetracker.com/gadgets/google/101/packagetracker.xml'
18 * concatenate lv_url 'sparam=value' into lv_url
19
20   lo_nd_box->set_attribute( name = 'BOXURL'
21                           value = lv_url ).
22
23 ENDMETHOD

```

All other steps are identical to example 1.

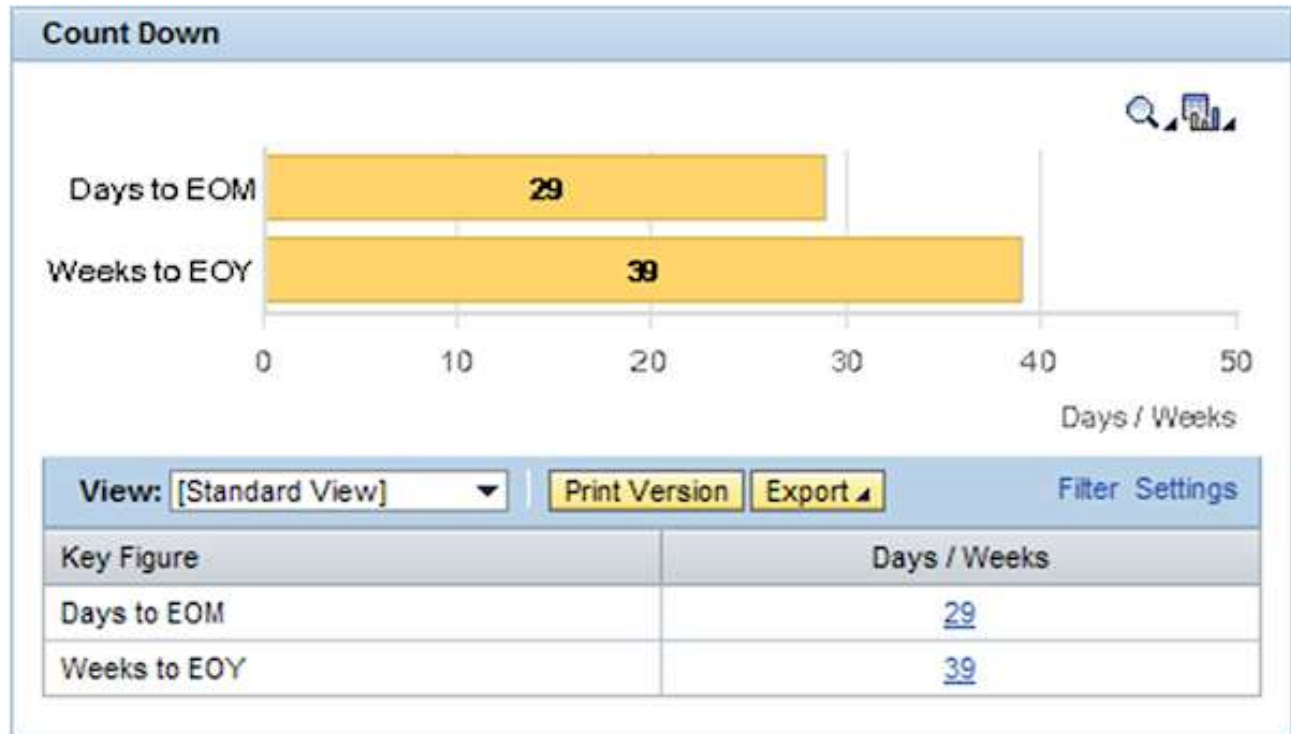
The URL we use in this example calls web sites by Google and Packagetracker.com:

<http://www.gmodules.com/ig/ifr?url=http://www.packagetracker.com/gadgets/google/101/packagetracker.xml>

Example 3: Re-Use the Quick View Modules to Display Your Own Key-Figures

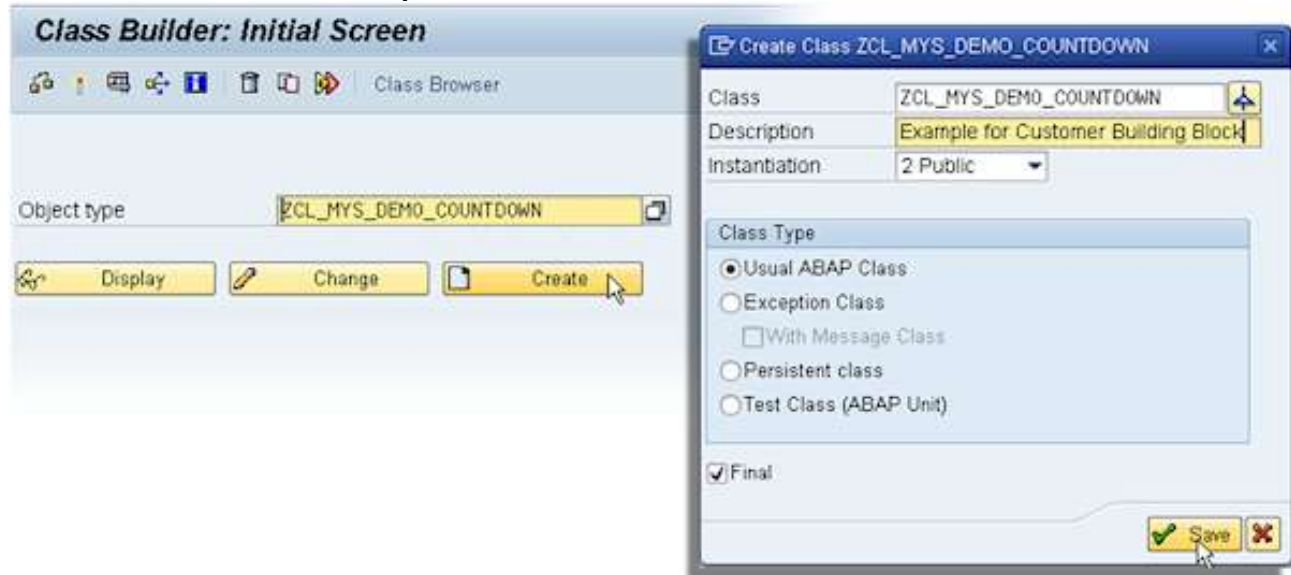
In this example we create a building block that shows two key figures:

- days until end of month
- weeks until end of year

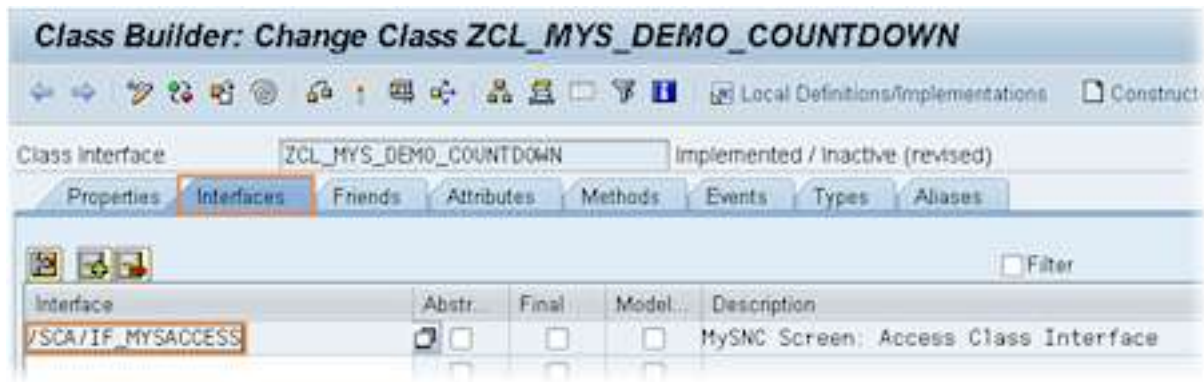


First, we create a class that calculates these two figures. To make it work with the quick view building block, it has to implement interface /SCA/IF_MYSACCESS.

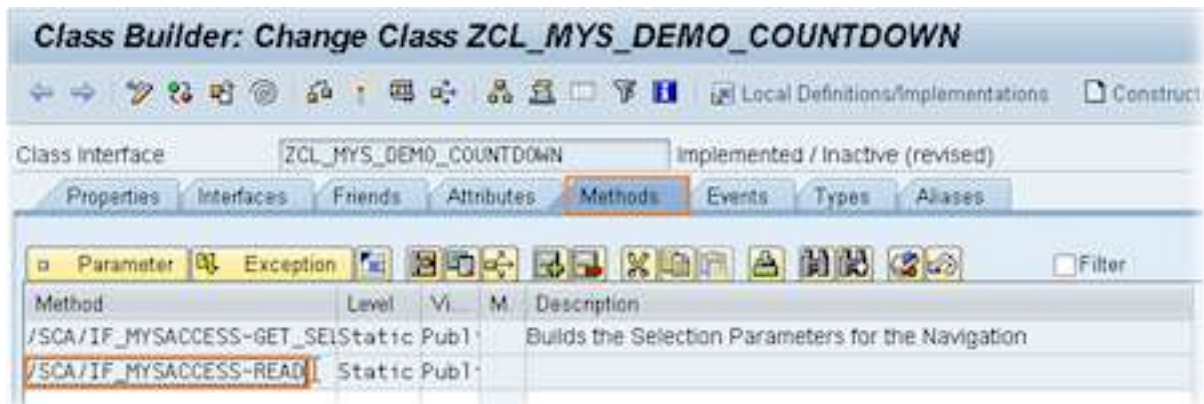
Call transaction SE24 and create your class:



Go to tab *Interfaces* and enter `/SCA/IF_MYSACCESS`:



Then go to tab *Methods* and double click on method `/SCA/IF_MYSACCESS~READ`:



In the editor, type your code – in our example the code could be:
METHOD /sca/if_mysaccess~read.

DATA:

```
lv_end_of_month TYPE dats,
lv_end_of_year  TYPE dats.
```

FIELD-SYMBOLS:

```
<ls_result> TYPE /sca/mys_result_str,
<ls_split>  TYPE /sca/mys_split_result_str.
```

* loop over the key figures prepared by the framework
LOOP AT ct_result **ASSIGNING** <ls_result>.

* get the first split segment (no split supported, so only first segment is filled)
READ TABLE <ls_result>-split_tab **ASSIGNING** <ls_split> **INDEX 1**.

CASE <ls_result>-keyfigure.

* key figure ZDAYS2EOM - Days Until End of Month (must be identical to configuration)
WHEN 'ZDAYS2EOM'.

```
lv_end_of_month = /scf/cl_semantic_date=>last_day_of_month( sy-datlo ).
<ls_split>-value = lv_end_of_month - sy-datlo.
```

* key figure ZWKS2EOY - Weeks Until End of Year (must be identical to configuration)
WHEN 'ZWKS2EOY'.

```
lv_end_of_year = /scf/cl_semantic_date=>last_day_of_year( sy-datlo ).
<ls_split>-value = lv_end_of_year - sy-datlo.
<ls_split>-value = <ls_split>-value / 7.
```

WHEN OTHERS.

ENDCASE.

ENDLOOP.

ENDMETHOD.

Activate the entire class. Note the key figure names you used and your class name.

Class Builder: Class ZCL_MYS_DEMO_COUNTDOWN Change

Ty.	Parameter	Type spec.	Description
▶	IT_MATLOC	TYPE /SCA/MATIDLOCID_TAB	Product ID location ID table
▶	IV_CUSTOMERPARTNER	TYPE /SCMB/ODM_PRTID OPTIONAL	ODM: Partner ID
▶	IV_SUPPLIERPARTNER	TYPE /SCMB/ODM_PRTID OPTIONAL	ODM: Partner ID
▶	IT_SELRANGE	TYPE /SCMB/ODM_PRMVALRNG_TAB	ODM: Selection Using Parameter Ranges
▶	IV_SPLIT_TYPE	TYPE /SCA/MYSSPLITTYPE OPTIONAL	Type of Split Criterion
▶	ET_RETURN	TYPE BAPIRETTAB	Table with BAPI Return Information
▶	CT_RESULT	TYPE /SCA/MYS_RESULT_TAB	MySNC Screen: Keyfigure Values

Method: /SCA/IF_MYSACCESS-READ Active

```
1 METHOD /sca/if_mysaccess-read.
```

Now configure your building block (transaction /n/SCF/MYSCFG).

Create your building block:

New Entries: Details of Added Entries

Block ID: zcountdown

Define Building Blocks for Quick View

Texts	
Block Header	Count Down
Default Header	Count Down
Block Tooltip	
Default Tooltip	
Key Figure Hdr	Key Figure
Default KF Hdr	Key Figure
Count Header	Days / Weeks
Def. Count Hdr	Days / Weeks
x-Axis Label	Days / Weeks
Default Label	Days / Weeks

Split Profile

Split Profile

Implementation

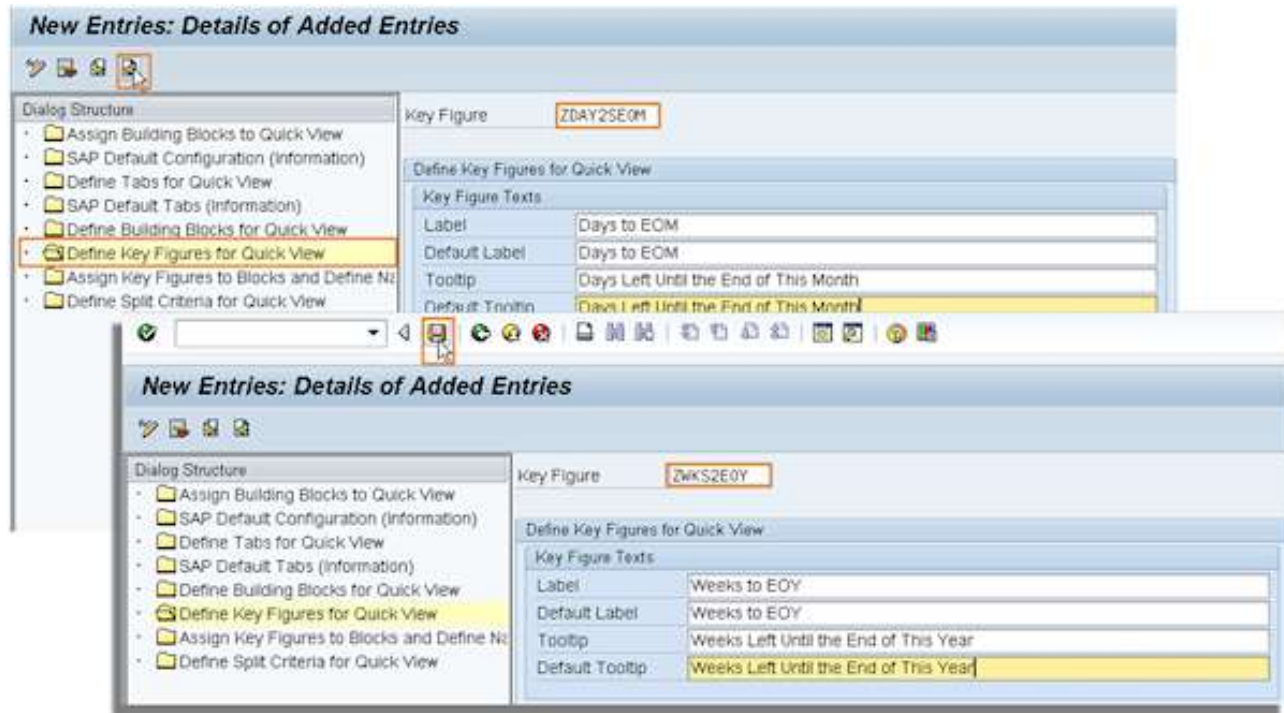
WebDynpro Comp.	/SCF/WD_MYS_BOX	← re-use standard
Feeder Class	/SCF/CL_MYSFEEDER	← re-use standard
Access Class	ZCL_MYS_DEMO_COUNTDOWN	← own

Screen IDs for Authority Checks

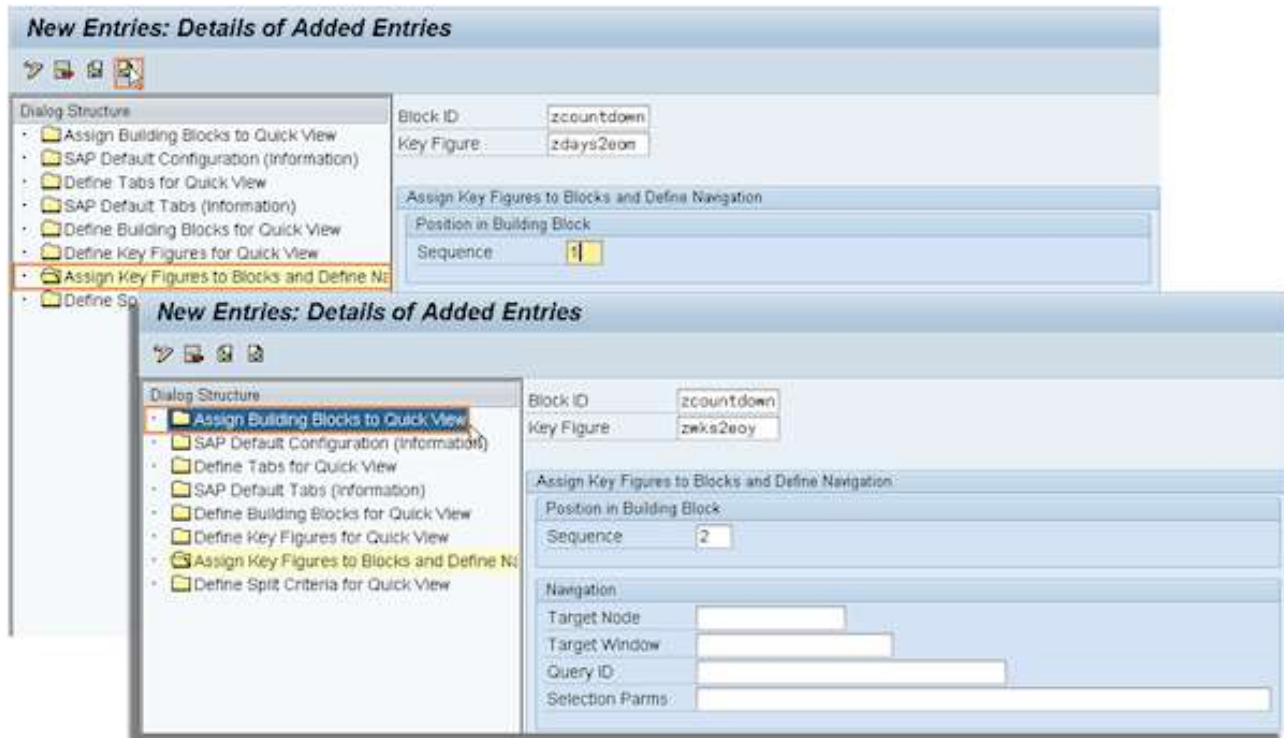
Check Screen	
Check Screen	
Check Screen	
Check Screen	
Check Screen	

- Set *WebDynpro Component* to **/SCF/WD_MYS_BOX**, re-using the default.
- Set *Feeder Class* to **/SCF/CL_MYSFEEDER**, also re-using the default.
- Set *Access Class* to the class you just created.

Create your two key figures. Make sure they are identical to the key figures you coded. Save after creating block and key figures, so they are known during assignment:



Assign your key figures to your building block (no navigation for this building block):



Assign your new building block to quick view (refer to article *Understanding Quick View Configuration* for more information on how to assign your building block to quick view).

Related Content

[SNC Wiki](#)

[SCM-SNC Forum](#)

[SCM on BPX](#)

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