

Using JavaScript in WAD



Applies to:

SAP Business Information Warehouse. For more information, visit the [EDW Homepage](#).

Summary

Web Application Designer is used extensively to publish reports on Web/Client portal. Sometimes there is a need to read few Web items (used in WAD template) using Java Script for carrying out some customizations. This document majorly highlights the scenario of reading web item value using Java Script.

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Author Bio

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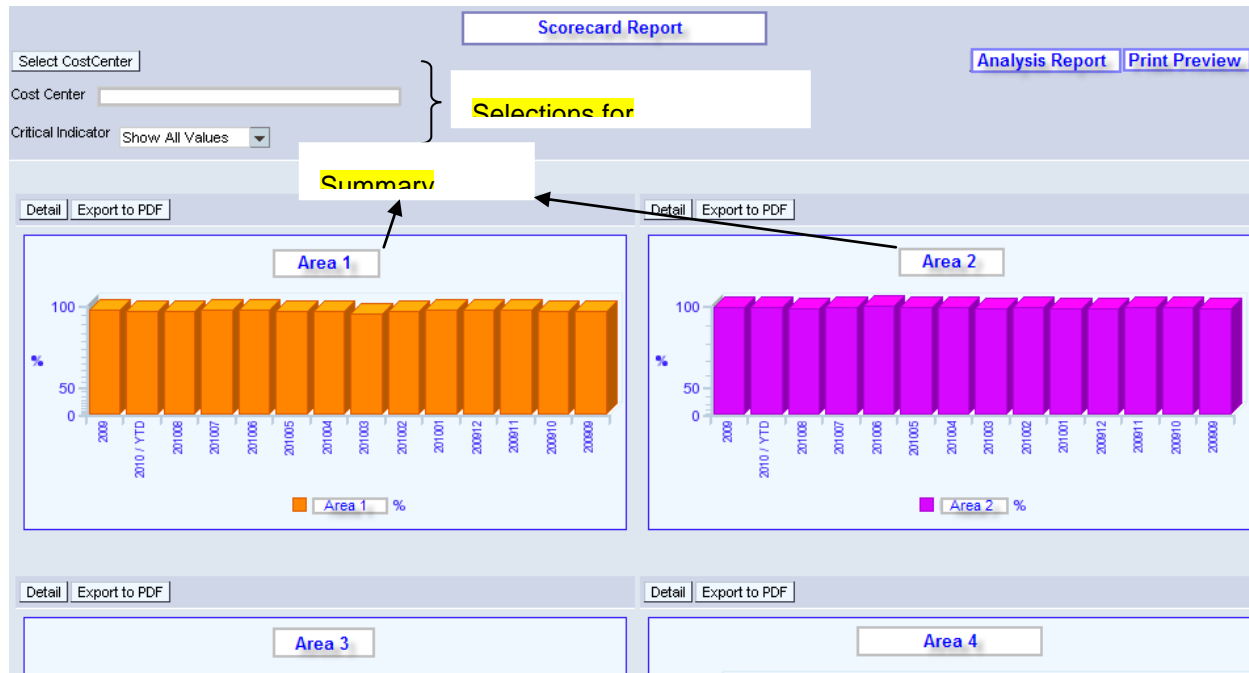
Background

There are few business scenarios where we need to read the Web Items selection value for customizations or certain project requirements. For this purpose we can make use of JavaScript to read the value of Web Item when a WAD template is executed.

Highlighted below is one of the scenarios which I encountered in one of my project.

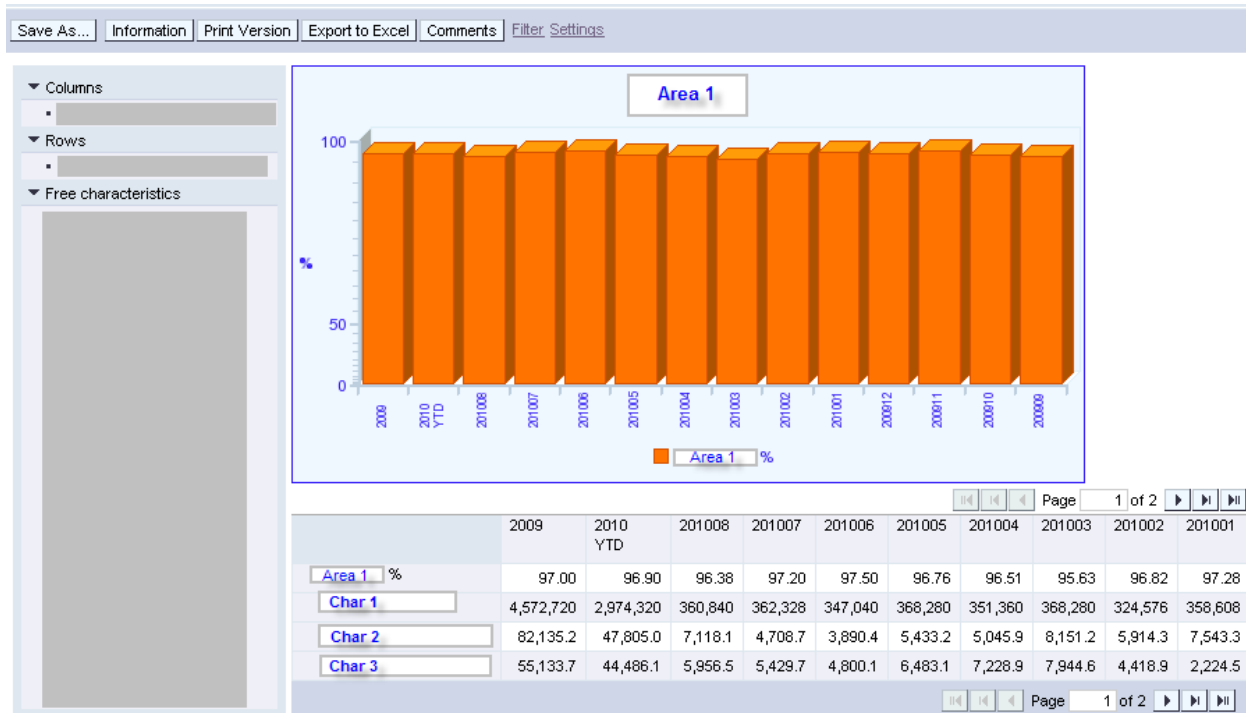
Scenario

In client application there was a WAD template defined, which was having certain selections (for characteristics) at the top and around 6 summary level charts for different functional areas at bottom. Each chart was having a “detail” button for further drilldown to details level charts. The snapshot of the WAD template is as seen below –



Snapshot 1: WAD Template display

Based on the values selected for Cost Center & Critical Indicator (the characteristics available for selections), the underlying chart display was accordingly changed. Each summary chart was having a “Detail” button. On click of this button the detail level query was called in a separate window as seen below:



Snapshot 2: Detail Chart View

Now the requirement was to pass the selected values of the characteristics (Cost Center & Critical Indicator) to the detail level query/charts which were required to be opened in separate window. For this purpose a Java Script was used.

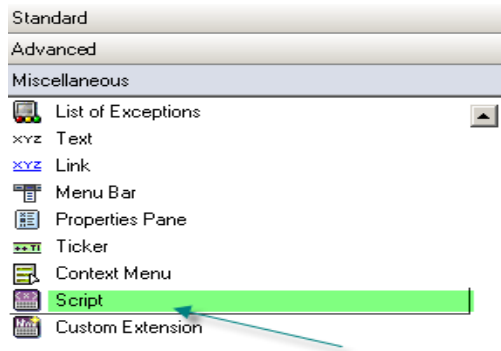
Note: In this WAD template for characteristic "Critical Indicator" web item dropdown box is used. The JavaScript mentioned below works only to read value of dropdown box. In the reusability section you will find how the same Java Script Code can be used for different web items.

Step wise solution

The following steps should be carried out to read a value of Web Item – “Dropdown Box” using Java Script.

Web Item to write Java Script

For writing the Java Script code use web item ‘Script’ as seen below –



Snapshot 3: Scrip Web Item

Java Script code to read value of Dropdown Box

To read the value of ‘Dropdown Box’ web item, insert the below JavaScript function into the Script Web Item

```
Function Java_Script {
var rd1="DROPDOWN_ITEM_1_AcDDLBase_combobox";
var valrd1=document.getElementById(rd1);
valrd2 = valrd1.value;
if(valrd2=='Show All Values') {
valrd2="";
}
if(valrd2=='Non Critical') {
valrd2=" ";
}
if(valrd2=='Critical') {
valrd2="Y";
}
window.open("portal link TEMPLATE =WAD template technical name
&variable_screen="&BI_COMMAND_1-
BI_COMMAND_TYPE=SET_VARIABLES_STATE&BI_COMMAND_1-VARIABLE_VALUES-
VARIABLE_VALUE_1-VARIABLE=characteristics on which dropdown box in based &BI_COMMAND_1-
VARIABLE_VALUES-VARIABLE_VALUE_1-
VARIABLE_TYPE=VARIABLE_INPUT_STRING&BI_COMMAND_1-VARIABLE_VALUES-
VARIABLE_VALUE_1-VARIABLE_TYPE-VARIABLE_INPUT_STRING=" +valrd2+")
```

Variables used in Code

rd1 – Used to store the technical name of dropdown web item referred HTML code generated.

rd2 – Used to store the value selected from dropdown for characteristics – ‘Critical indicator’.

'Show All Values', 'Non Critical', & 'Critical' - These are all possible values which can be selected using dropdown box for characteristics 'Critical Indicator'.

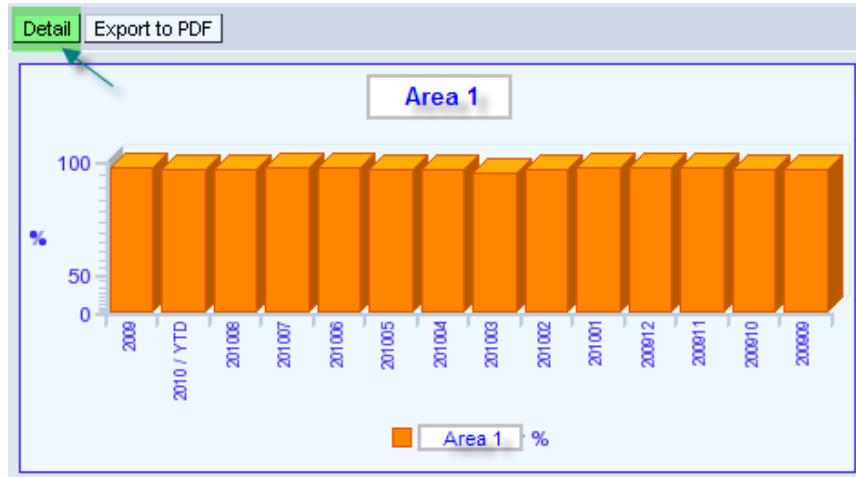
Text highlighted in yellow – Replace this text with the required details as per your WAD template requirement.

Java_Script – This is the function name which we need to pass in the parameters of button group. Refer Section –“Attach Script function to button group” below for further details.

Attach Script function to button group

In this WAD template, there is button group consisting of 2 buttons

- Detail
- Export to pdf



Snapshot 4: Details Chart Button

The requirement is to open the detail level report/chart on click of “Detail” button. Thus below is the step to attach the defined Script Function to the “Detail” Button-

- In the parameters of the Button Group add the Script Function name as shown below –

Edit Parameter

Determine the Parameters for the Web Item

Assign the required values to the parameters. To copy the default value, leave the entry as it is. Changes taken in this window cannot be cancelled. All changes will be applied.

Button	
Caption	Detail
Quick Info	Default
Icon	Default
Enabled	<input checked="" type="checkbox"/> On (Default)
Design	STANDARD (Default)
Action	
Script Function	Script Function [SCRIPT_FUNCTION]
	<input type="checkbox"/> Off (Default)
Execute With ENTER	<input type="checkbox"/> Off (Default)

Note: A blue arrow points from the text "Script Function name defined in 'Script' Web Item" to the "Script Function [SCRIPT_FUNCTION]" field in the table.

Snapshot 5: Button Group Parameters

In this way, whenever the “detail” button is clicked the characteristics values selected for “Critical Indicator” are passed to the detail report/chart using the Java Script function.

Reusability of Code

The same Java Script function can be used for reading the values of different web items by changing the variable rd1 in the code as seen below -

```
var rd1="DROPDOWN_ITEM_1_AcDDLBase_combobox";
```

This is the important parameter which needs to be passed to the variable to read the Web Item value. This parameter can be obtained by just executing the WAD template on Web and right click on that page to View the source code. In this HTML code try to find the exact name of the required Web Item and pass it to the rd1 variable.

Related Content

[Business Information Warehouse](#)

[WAD Details](#)

For more information, visit the [EDW Homepage](#).

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