



Extensibility for Billing Document Printout

S/4 HANA Cloud



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1 Provide Customer Material ID in Billing Document Output

1.1 Aim

Show Customer Material ID on Form Template Item of Billing Document Item.

1.2 Steps to do

1.2.1 Creation of an extension field at Billing Document

Use app [Custom Fields and Logic](#), tab [Custom Fields](#), in the Extensibility business catalog. Create a new extension field in [Business Context Billing Document Item](#) with an appropriate Type.

Field Properties	
*Business Context:	Sales: Billing Document Item
*Label:	CustomerMaterialID
*Identifier:	YY1_ CustomerMaterialID
*Tooltip:	CustomerMaterialID
*Type:	Text
*Length:	15
Business Context Capacity:	<div style="width: 7%; background-color: #0070C0; height: 10px; display: inline-block;"></div> 7%

Create Create and Edit Cancel

This extension field is intended to store the Customer Material ID with the Billing Document Item.

Remark: The extension field will only be filled when triggering the output request.

1.2.2 Extend the Form Template with the Extension Field

Within the same App [Custom Fields and Logic](#) and tab [Custom Field](#) enable the Form Templates for the Billing Document with the extension field.

The screenshot shows the SAP Fiori interface for managing extension fields. The top navigation bar includes icons for user, search, and refresh, followed by the SAP logo. The title 'CustomerMaterialID' is displayed, along with a 'Text (15)' entry and a 'Sales: Billing Document Item' context indicator. The status 'Not Published' is shown in the top right. Below the title, a breadcrumb trail lists 'General Information', 'Uis and Reports (10)', 'Email Templates (0)', 'Form Templates (57)', 'Business Scenarios (10)', 'OData APIs (2)', 'SOAP APIs (3)', 'BAPIs (0)', and 'IDocs (0)'. The 'Form Templates' tab is active. A table lists various 'Credit Memo Form' entries from different countries, each with an 'Enabled' status and a 'Disable Usage' button. At the bottom of the table are buttons for 'Save', 'Publish', 'Discard Changes', 'Delete', and 'Cancel'.

Save and publish the extension field.

1.2.3 Creation of an extension logic

Use app [Custom Fields and Logic](#), tab [Custom Logic](#), in the Extensibility business catalog. Create a new Enhancement Implementation in [Business Context Sales: Billing Document Item](#) with [Definition Description Billing Standard Output Item Adaption](#) and an appropriate Implementation Description. In case the Enhancement Implementation already exist, this step can be skipped.

The dialog box is titled 'New Enhancement Implementation'. It has a section for 'Business Context' with a dropdown menu set to 'Sales: Billing Document Item'. Below it is a field for '*BAPI Description' with a dropdown menu set to 'Billing Standard Output Item Adaption'. Another field for '*Implementation Description' contains the text 'Enhance Print Program'. A final field for '*Implementation ID' contains the value 'YY1_ENHANCEPRINTPROGRAM'. At the bottom of the dialog are 'Create' and 'Cancel' buttons.

Add the following example code to the Draft:

* This method can be used to set values for output to billing document item extension fields.

* Example:

*

* First of all assign existing extension field values to output parameter:

```
billingdocitem_ext_out = billingdocitem_ext_in.  
billingdocitemdescr_ext_out = billingdocitemdescr_ext_in.
```

*get SO number

```
select single salesdocument  
    from i_billingdocumentitem  
    into @data(lv_salesdocument)  
    where billingdocument = @billingdocitem-billingdocument.
```

*get Customer Material ID

```
select single MaterialByCustomer  
    from i_salesdocumentitem  
    into @billingdocitem_ext_out-yy1_customermaterialid_bdi  
    where salesdocument = @lv_salesdocument.
```

Save and publish the extension Logic.

The screenshot shows the SAP Fiori Launchpad with the 'Custom Fields and Logic' application open. The top navigation bar includes the SAP logo, a search icon, and a back arrow. The main content area has a title 'Enhance Print Program' and a status bar indicating 'Last Changed By _SAPD064591, 8/14/2019, 5:58:38 AM'. On the right, there are buttons for 'Not Published' (orange) and 'Draft Available' (grey). Below the title, there are tabs for 'Available Fields', 'Filter', and 'BAPI Documentation'. A 'Select Variant' button is also present. The central area contains two input fields: 'billingdoc:' with placeholder 'Click to add value' and 'billingdocitem_ext_in:' with placeholder 'Click to add value'. Below these fields is a code editor titled 'Draft Logic' containing the provided ABAP code. At the bottom right of the code editor are buttons for 'Draft', 'Published', and 'Example'. At the very bottom of the screen, there are buttons for 'Save Draft', 'Delete', 'Test', and 'Publish'.

```
1 * This method can be used to set values for output to billing document item extension fields.  
2 * Example:  
3 *  
4 * First of all assign existing extension field values to output parameter:  
5  
6     billingdocitem_ext_out = billingdocitem_ext_in.  
7     billingdocitemdescr_ext_out = billingdocitemdescr_ext_in.  
8  
9 *get SO number  
10 *  
11     select single salesdocument  
12         from i_billingdocumentitem  
13         into @data(lv_salesdocument)  
14         where billingdocument = @billingdocitem-billingdocument.  
15 *get Customer Material ID  
16 *  
17     select single MaterialByCustomer  
18         from i_salesdocumentitem  
19         into @billingdocitem_ext_out-yy1_customermaterialid_bdi  
20         where salesdocument = @lv_salesdocument.  
21  
22
```

Remark: To see the new created extension field in the Billing Document Printout, it is necessary to create a new Form Template.



2 Provide Net Weight and Unit in Billing Document Output

2.1 Aim

Show Net Weight and Unit on Form Template Item of Billing Document Item.

2.2 Steps to do

2.2.1 Creation of an extension field at Billing Document

Use app [Custom Fields and Logic](#), tab [Custom Fields](#), in the Extensibility business catalog. Create a new extension field in [Business Context Billing Document Item](#) with an appropriate Type.

The screenshot shows the 'New Field' dialog box with the following fields filled in:

*Business Context:	Sales: Billing Document Item
*Label:	NetWeight
*Identifier:	YY1_ NetWeight
*Tooltip:	NetWeight
*Type:	Quantity with Unit
Business Context Capacity:	8%

At the bottom of the dialog, there are three buttons: 'Create', 'Create and Edit', and 'Cancel'.

This extension field is intended to store the Net Weight and Unit with the Billing Document Item.

Remark: The extension field will only be filled when triggering the output request.

2.2.2 Extend the Form Template with the Extension Field

Within the same App [Custom Fields and Logic](#) and tab [Custom Field](#) enable the Form Templates for the Billing Document with the extension field.

Save and publish the extension field.

2.2.3 Creation of an extension logic

Use app [Custom Fields and Logic](#), tab [Custom Logic](#), in the Extensibility business catalog. Create a new Enhancement Implementation in [Business Context](#) **Sales: Billing Document Item** with [Definition Description](#) **Billing Standard Output Item Adaption** and an appropriate Implementation Description. In case the Enhancement Implementation already exist, this step can be skipped.

Business Context:	Sales: Billing Document Item
*BAPI Description:	Billing Standard Output Item Adaption
*Implementation Description:	Enhance Print Program
*Implementation ID:	YY1_ENHANCEPRINTPROGRAM

Add the following example code to the Draft:

* This method can be used to set values for output to billing document item extension fields.

* Example:

*

* First of all assign existing extension field values to output parameter:

```
billingdocitem_ext_out = billingdocitem_ext_in.  
billingdocitemdescr_ext_out = billingdocitemdescr_ext_in.
```

*get Net Weight

```
select single itemnetweight,itemweightunit  
from i_billingdocumentitem  
into @data(ls_weight)  
where billingdocument = @billingdocitem-billingdocument.
```

```
billingdocitem_ext_out-yy1_netweight_bdi = ls_weight-itemnetweight.  
billingdocitem_ext_out-yy1_netweight_bdu = ls_weight-itemweightunit.
```

Save and publish the extension Logic.

Parameter	Description	Value	Type
billingdocitem_ext_out	Extension Include persistent (VBRP)	[structure] [structure]	sdbillingdocitem_incl_eew_ps sdbillingdocitem_incl_eew_tr
billingdocitemdescr_ext_out			

Remark: To see the new created extension field in the Billing Document Printout, it is necessary to create a new Form Template.