



## Extensibility for Billing Document Printout

S/4 HANA Cloud



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# 1 Provide Delivery Number in Billing Document Output (Header Level)

## 1.1 Aim

Show Delivery Number on Form Template Item of Billing Document.

## 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 Sales: Billing Document](#) with an appropriate Type.

New Field

Field Properties

*Business Context:	Sales: Billing Document
*Label:	DeliveryNumberHead
*Identifier:	YY1_   DeliveryNumberHead
*Tooltip:	DeliveryNumberHead
*Type:	Text
*Length:	16

Business Context Capacity: 10%

Create   Create and Edit   Cancel

This extension field is intended to store the Delivery Number with the Billing Document.

*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 'Custom Fields and Logic'. The page title is 'DeliveryNumberHead'. Under the 'Form Templates' tab, there is a table listing various Credit Memo Form types from different countries, each with an 'Enabled' status and a 'Disable Usage' button. The table includes rows for Austria, Belgium, France, Hungary, Indonesia, Ireland, Italy, Luxembourg, Netherlands, New Zealand, Norway, Philippines, Spain, USA, and Finland. At the bottom right 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* with *BAdI Description Billing Standard Output Header 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 contains fields for 'Business Context' (set to 'Sales: Billing Document'), 'BAdI Description' (set to 'Billing Standard Output Header Adaption'), 'Implementation Description' (set to 'Enhance\_Print\_Program'), and 'Implementation ID' (set to 'YY1\_ ENHANCEPRINTPROGRAM'). At the bottom 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 header extension fields.

billingdoc_extension_out = billingdoc_extension_in.
billingdocdescr_extension_out = billingdocdescr_extension_in.

* only retrieve first item
select referencesddocument, referenceSDDocumentCategory
from i_billingdocumentitem
where billingdocument = @billingdoc-billingdocument
order by billingdocumentitem
into @data(ls_deliverydata).
exit.
endselect.

if ls_deliverydata-referencesddocumentcategory EQ 'J'.

    billingdoc_extension_out-yy1_deliverynumberhead_bdh = ls_deliverydata-referencesddocument.

elseif ls_deliverydata-referencesddocumentcategory EQ 'PBD'.
* only retrieve first item
select referencesddocument
from i_billingdocumentitembasic
where billingdocument = @ls_deliverydata-referencesddocument
order by billingdocumentitem
into @billingdoc_extension_out-yy1_deliverynumberhead_bdh.
exit.
endselect.

endif.
```

Save and publish the extension Logic.

Custom Fields and Logic

Select variant

billingdoc:

billingdocdescr\_extension\_in:

Create Draft Published Example

**Published Logic**

```
1 * This method can be used to set values for output to billing document header extension fields.
2
3 billingdoc_extension_out = billingdoc_extension_in.
4 billingdocdescr_extension_out = billingdocdescr_extension_in.
5
6 * only retrieve first item
7 select referencesddocument, referenceSDDocumentCategory
8 from i_billingdocumentitem
9 where billingdocument = @billingdoc-billingdocument
10 order by billingdocumentitem
11 into @data(ls_deliverydata).
12 exit.
13 endselect.
14
15 if ls_deliverydata-referencesddocumentcategory EQ 'J'.
16
17     billingdoc_extension_out-yy1_deliverynumberhead_bdh = ls_deliverydata-referencesddocument.
18
19 elseif ls_deliverydata-referencesddocumentcategory EQ 'PBD'.
20
21 * only retrieve first item
22 select referencesddocument
23 from i_billingdocumentitembasic
24 where billingdocument = @ls_deliverydata-referencesddocument
25 order by billingdocumentitem
26 into @billingdoc_extension_out-yy1_deliverynumberhead_bdh.
27 exit.
28 endselect.
29
30 endif.
```

Test Results: Published Logic

Save Draft Delete Test Publish

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



## 2 Provide Delivery Number in Billing Document Output (Item Level)

### 2.1 Aim

Show Delivery Number 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 Sales: Billing Document](#) with an appropriate Type.

New Field

Field Properties

*Business Context:	Sales: Billing Document Item
*Label:	DeliveryNumberItem
*Identifier:	YY1_   DeliveryNumberItem
*Tooltip:	DeliveryNumberItem
*Type:	Text
*Length:	16

Business Context Capacity:   15%

[Create](#)   [Create and Edit](#)   [Cancel](#)

This extension field is intended to store the Delivery Number 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.

Description	Field Usage
Credit Memo Form	Enabled
Credit Memo Form (Austria)	Enabled
Credit Memo Form (Belgium)	Enabled
Credit Memo Form (France)	Enabled
Credit Memo Form (Hungary)	Enabled
Credit Memo Form (Indonesia)	Enabled
Credit Memo Form (Ireland)	Enabled
Credit Memo Form (Italy)	Enabled
Credit Memo Form (Luxembourg)	Enabled
Credit Memo Form (Netherlands)	Enabled
Credit Memo Form (New Zealand)	Enabled

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* with *BAdI Description Billing Standard Output Item Adaption* and an appropriate Implementation Description. In case the Enhancement Implementation already exist, this step can be skipped.

Add the following example code to the Draft:

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

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

```
if billingdocitem-referencesddocumentcategory EQ 'J'.  
    billingdocitem_ext_out-yy1_deliverynumberitem_bdi = billingdocitem-referencesddocument.  
elseif billingdocitem-referencesddocumentcategory EQ 'PBD'.  
    select single referencesddocument  
        from i_billingdocumentitembasic  
        into @billingdocitem_ext_out-yy1_deliverynumberitem_bdi  
        where billingdocument = @billingdocitem-referencesddocument and  
              billingdocumentitem = @billingdocitem-referencesddocumentitem.  
endif.
```

Save and publish the extension Logic.

The screenshot shows the SAP Fiori interface for managing custom fields and logic. At the top, there's a navigation bar with icons for user, SAP logo, and search. Below it, a header bar says "Custom Fields and Logic". Underneath, there are tabs for "Available Fields", "Filter", and "BAPI Documentation". A "Select Variant" dropdown is open. In the main area, there are four input fields: "billingdoc:" with placeholder "Click to add value", "billingdocitem:" with placeholder "Click to add value", "billingdocitem\_ext\_in:" with placeholder "Click to add value", and "billingdocitemdescr\_ext\_in:" with placeholder "Click to add value". Below these, a large text area contains the logic code. The code starts with a comment about setting values for billing document header extension fields, followed by assignment statements for ext\_out and ext\_in variables. It then branches based on the document category (J or PBD). For category J, it performs a select statement to get a single reference document item. The code ends with an endif. At the bottom right of the code area, there are buttons for "Create Draft", "Published" (which is selected), 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 header extension fields.  
2  
3    billingdocitem_ext_out = billingdocitem_ext_in.  
4    billingdocitemdescr_ext_out = billingdocitemdescr_ext_in.  
5  
6  
7  
8* if billingdocitem-referencesddocumentcategory EQ 'J'.  
9  
10   billingdocitem_ext_out-yy1_deliverynumberitem_bdi = billingdocitem-referencesddocument.  
11  
12* elseif billingdocitem-referencesddocumentcategory EQ 'PBD'.  
13  
14*   select single referencesddocument  
15     from i_billingdocumentitembasic  
16     into @billingdocitem_ext_out-yy1_deliverynumberitem_bdi  
17*     where billingdocument = @billingdocitem-referencesddocument and  
18*           billingdocumentitem = @billingdocitem-referencesddocumentitem.  
19  
20  endif.  
21
```

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