

Extensibility for Billing Document Printout

S/4 HANA Cloud



THE BEST RUN



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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.

The screenshot shows a 'New Field' configuration window. The 'Field Properties' section includes the following fields:

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

Business Context Capacity: 10%

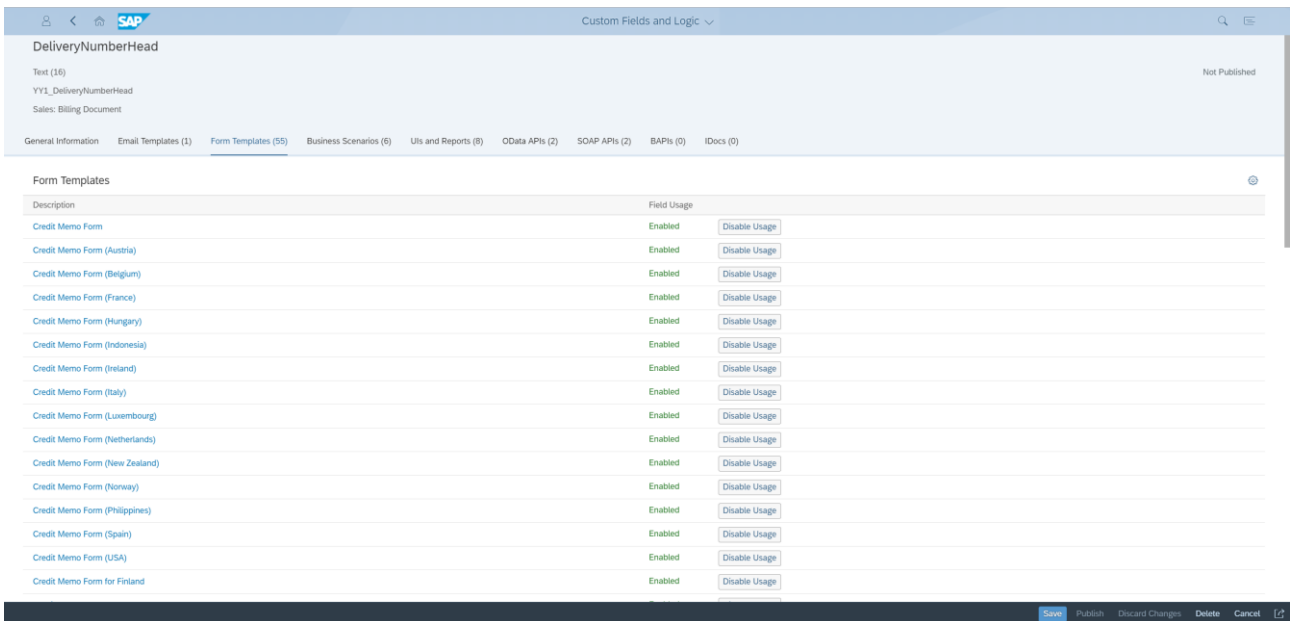
Buttons: Create, Create and Edit, Cancel

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.



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.

New Enhancement Implementation

Business Context:

*BAdI Description:

*Implementation Description:

Implementation ID:

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.

The screenshot displays the SAP Custom Fields and Logic configuration screen. At the top, there are input fields for 'billingdoc:', 'billingdocdescr_extension_in:', and 'billingdoc_extension_in:'. Below these is a code editor showing the published logic code. The code includes comments and SQL-like statements for selecting data and setting extension fields based on document categories 'J' and 'PBD'. At the bottom, there are buttons for 'Save Draft', 'Delete', 'Test', and '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.

The screenshot shows a 'New Field' configuration window. The 'Field Properties' section includes the following fields:

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

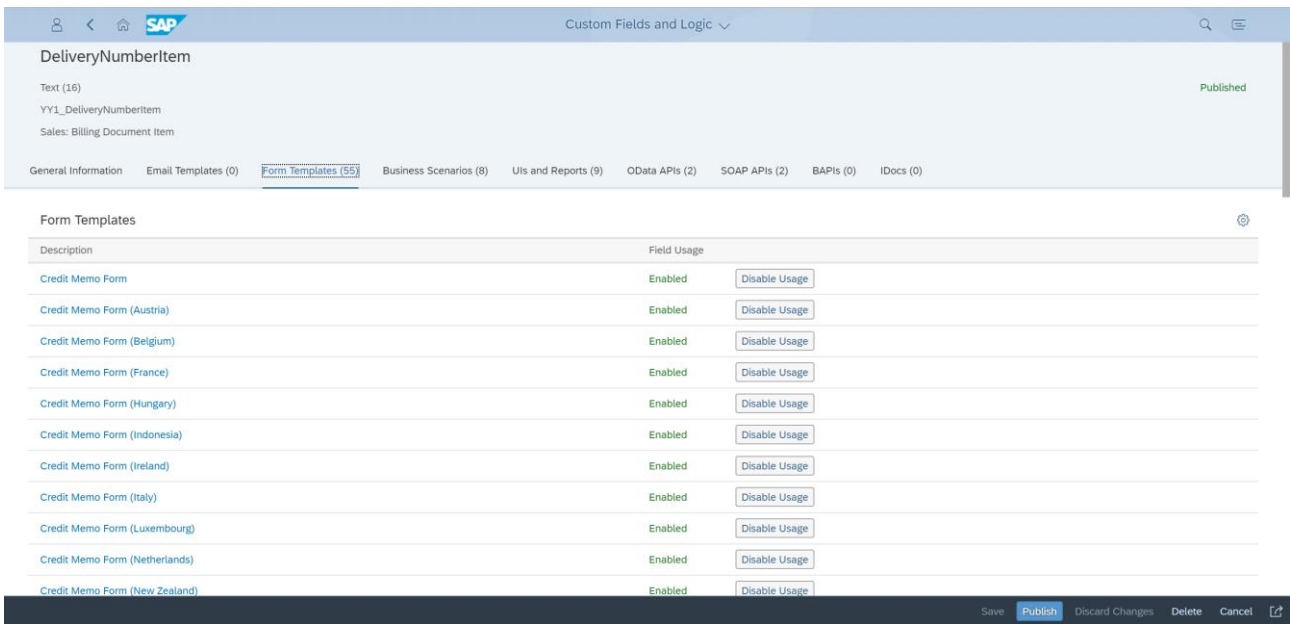
At the bottom, there is a 'Business Context Capacity' indicator showing 15% usage. The bottom right corner contains three buttons: 'Create', 'Create and Edit', and 'Cancel'.

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.



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.

New Enhancement Implementation

Business Context:

*BAdI Description:

*Implementation Description:

Implementation ID:

Create **Cancel**

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.

Published Logic

```
1 * This method can be used to set values for output to billing document item 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.