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Borja Federico Muro Berdasco

January 7, 2013 | 2 minute read

BTEs – Business Transaction Events

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Business Transaction Events (BTEs) have been available as of Release 4.0 and are another technique for implementing program exits, and only program exits.

BTEs are generally found in the general ledger accounting (FI-GL), account receivable and payable (FI-AR and FI-AP) and sales and distribution components.

A BTE has a predefined interface and allows you to attach additional functionality in the form of a service funtion module.You must create funtion module with the

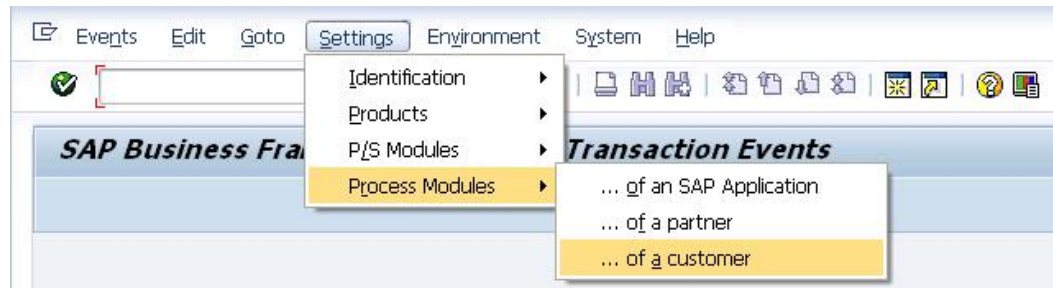### Assigned Tags

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parameters you have previously dictated. The BTE is called by the SAP standard program by a call to function OPEN_FI_PERFORM_ or OUTBOUND_CALL_. This function checks if there are any active BTEs according to customizing.

According to its Interface there are 2 types of BTEs:

Publish & Subscribe interfaces. Can not update data. Possible to have multiple implementations

Process interfaces. Can update date. Only one active implementation

How to find a BTE (2 ways)

- Search the source code for for "OPEN_FI_PERFORM" og " OUTBOUND_CALL_"
- Use transaction FIBF menu Environment->Info System (P/S). Use the Documentation button to see the documentation for the BTE.

Business Transaction Events: Publish & Subscribe Interfaces

🔍 ✍️ Act. comp.   🌐 Sample function module   🌐 Interface   📄 Documentation   🖨️ 🔧 🔽 | 🔳 🔁 📤 📥 | ⊞

Selected BTEs

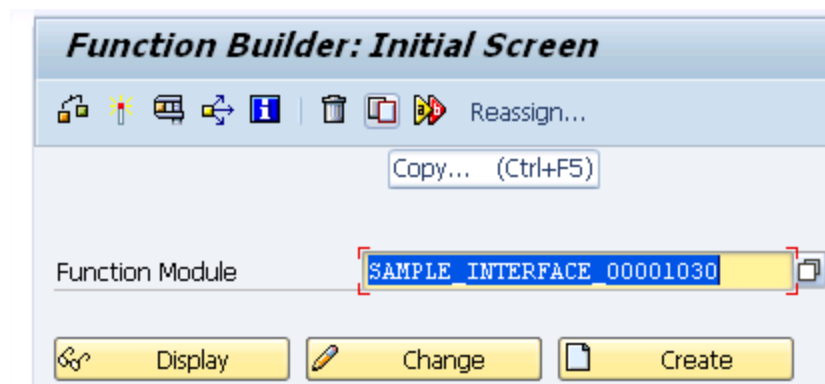| Event	Text
00000900	OI PROCESSING: Derivation Before OI Display
00001005	POST DOCUMENT: Footer input
00001010	POST DOCUMENT: Check customer line item
00001011	POST DOCUMENT: Checks at line item level
00001012	POST DOCUMENT: Check reference 3
00001013	POST DOCUMENT: Display References Button
00001020	POST DOCUMENT: Prior to final checks
00001025	POST DOCUMENT: Final checks completed
00001030	POST DOCUMENT: Posting of standard data
00001040	REVERSE CLEARING: Following a standard posting
00001041	REVERSE CLEARING: With Reversal of Clearing Doc.
00001050	POST DOCUMENT: Accounting interface
00001060	POST DOCUMENT: Invoice check
00001070	POST DOCUMENT: GUI Callup at Line Item Level
00001080	POST DOCUMENT: Key Texts
00001085	POST DOCUMENT: Functions for Line Item
00001110	CHANGE DOCUMENT: Save the standard data
00001120	CHANGE DOCUMENT: GUI Callup at line item level
00001130	CHANGE DOCUMENT: Key texts
00001135	CHANGE DOCUMENT: Excl. Functions for Line Item
00001136	CHANGE DOCUMENT: Exclude Field Changes

Implementing the BTE

- Goto transaction FIBF menu Environment->Info System (P/S)

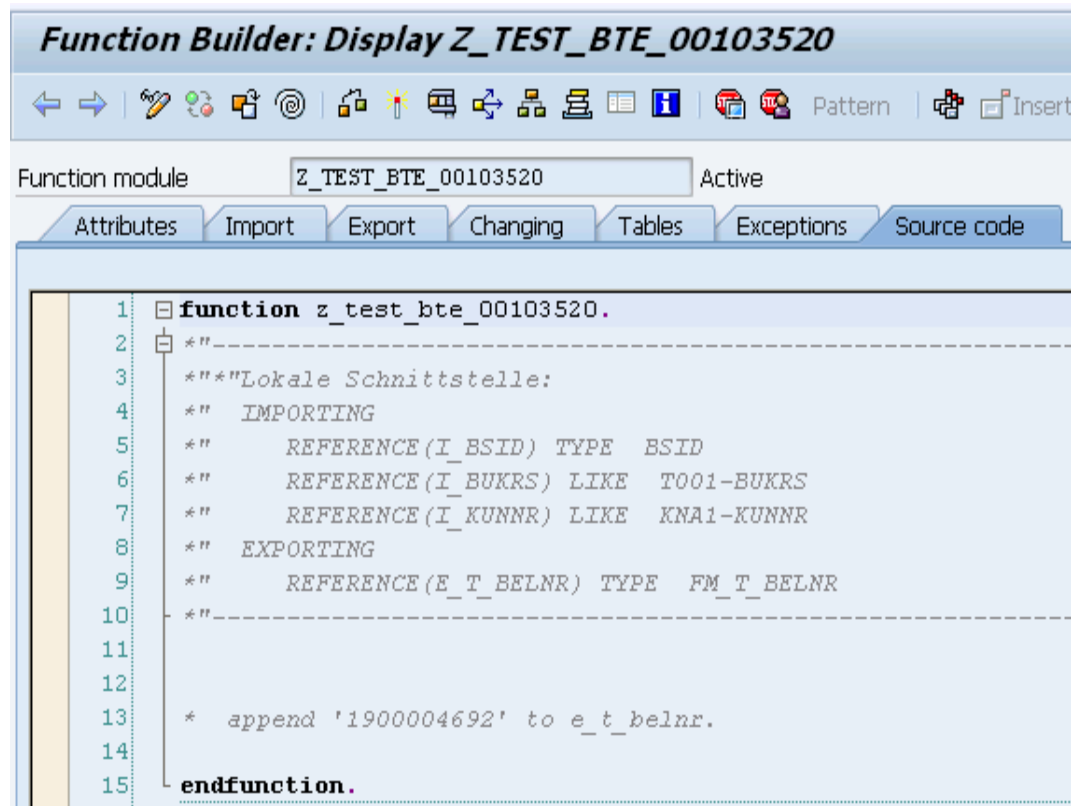- Select the BTE you want to implement. (as below)

List   Edit   Goto   Settings   System   Help

Business Transaction Events: Process Interfaces

Act. comp.   Sample function module   Interface   Documentation

Selected BTEs

Process	Text
00001020	DUNNING: Following reading, prior to printing
00001030	DUNNING: Determine form
00001040	DUNNING: Determine output device
00001050	DUNNING: Read additional fields for MHNK
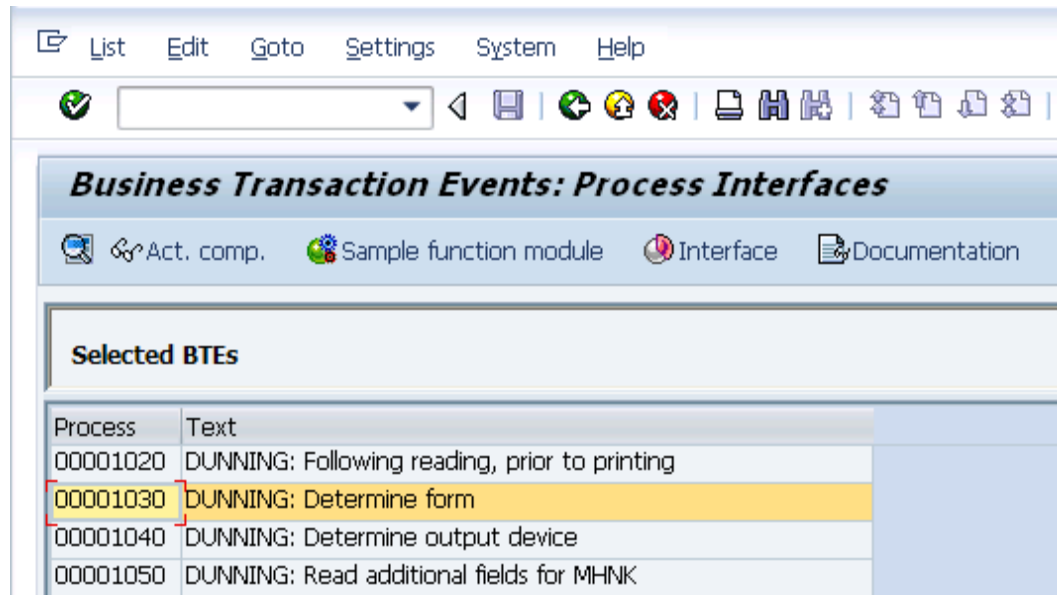
- Double click on Sample function module   **Sample function module**

- Then we copy the sample function module to a Z-function module (First create a new function group for the function module) .

  Note: The name of the Z-function module is not important

Function Builder: Initial Screen

Reassign...

Copy...   (Ctrl+F5)

Function Module   SAMPLE_INTERFACE_00001030

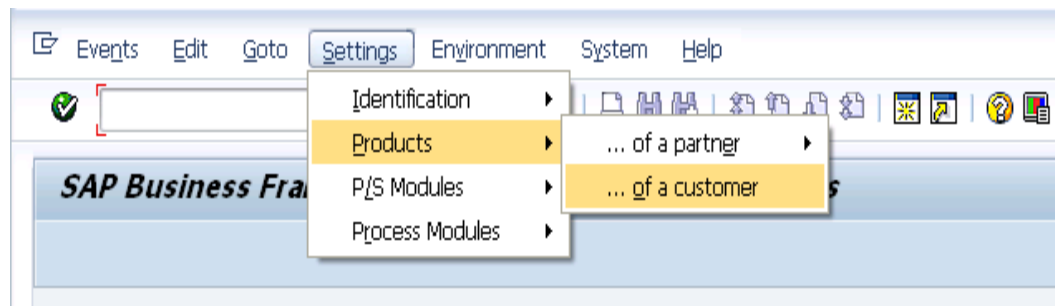**Display   Change   Create**

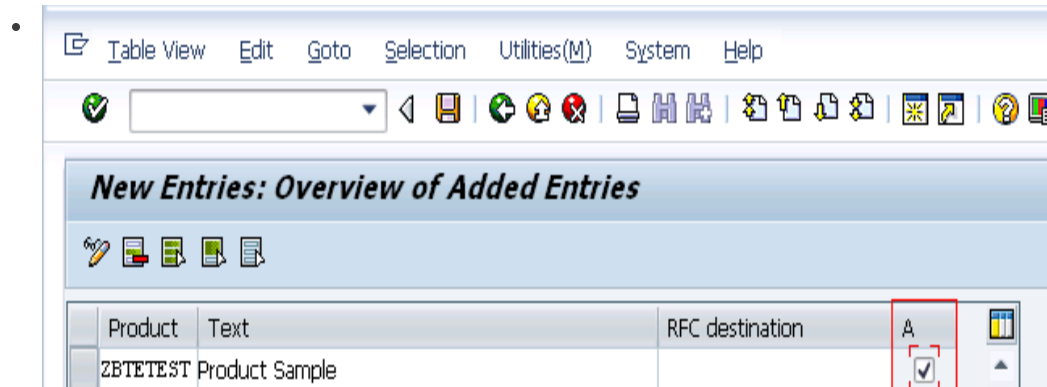- Edit the code in the new function module:

- Go back to transaction FIBF – Menu Settings->Products -> Of a customer and create a new product which identifies the new product .

  Remember to mark the Active field.

- We enter the product name description and RFC destination if applicable. The check box A is to activate the product.

- The next step is to link the function module and the event using the product created. Go back to FIBF menu Settings->P/S function modules->of a customer – Create an entry that links the BTE and Product with the new function module (as below)
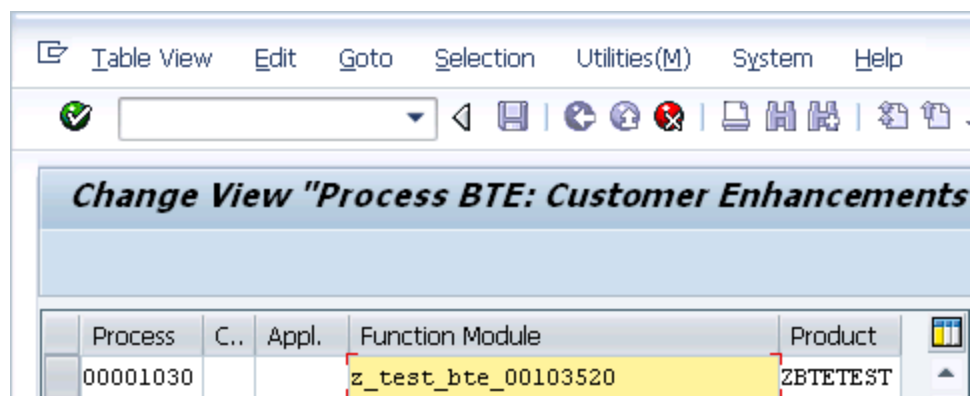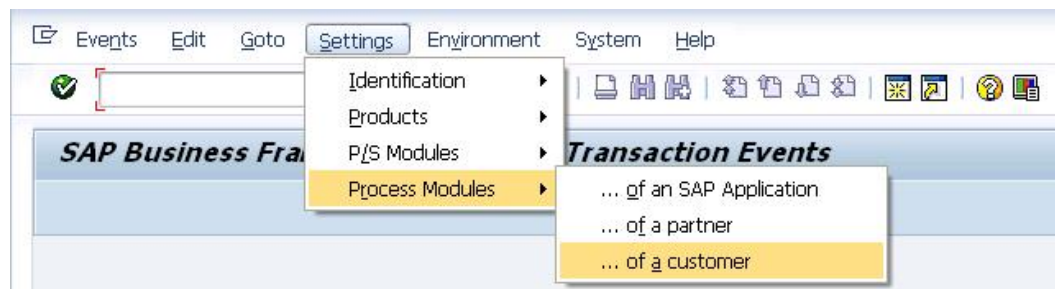
- And that´s all, we only need to save and activate. 🙂

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7 Comments

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Stephen Johannes
January 7, 2013 at 5:03 pm

Another interesting aspect of these events is that the R3 Adapter of the CRM middleware uses these exits to trigger the outbound flow of changes in ERP to CRM and also to enhance the standard transfer on the outbound ERP to CRM side.

Take care,

Stephen

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SHANKARANARAYAN KRISHNAMOORTHY
August 23, 2013 at 6:39 am

Nice,simple explanation . But If the Z-FM is created in a separate function group, wont it lose all the global data that is in the function group of the original FM ?

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Stephen Johannes
August 23, 2013 at 1:07 pm

These are supposed to work with the idea you can only process the data you are given as these are exits. Never been a problem in my experience when used for SAP CRM middleware processing.

Like 0 | Share

SHANKARANARAYAN KRISHNAMOORTHY
August 26, 2013 at 1:38 am

Yeah you are right . Thanks Stephen .

Like 0 | Share

Vijay Chintarlapalli
October 22, 2013 at 3:24 pm

Nice and useful document

Like 0 | Share

Sandip Kurewar
January 6, 2014 at 7:26 am

It's useful and understandable…!!

Thanks for Sharing your knowledge..

Regards

Sandip

Like 0 | Share

Pritesh Sharad Raut

April 28, 2014 at 5:55 am

Very useful and simple Document.

thanks.

Regards,

Pritesh

Like 0 | Share

Former Member

November 9, 2014 at 3:32 pm

Thanks for the useful information. It helps to understand to System better

Eric Yang

January 26, 2015 at 10:56 am

Very nice sharing, Borja. We are applying what you mentioned above in our project. However, we may miss something, so that it leads the function module cannot be called in the transactions. Our case is bellow, could you please help us to check and give us an advice.

We want to use FM ZSAMPLE_PROCESS_00001610 which is copied from SAMPLE_PROCESS_00001610, to calculate the value date and update it when running payment proposal by F110.

To realize it, here bellow is what have done in BTE settings:

(1) Configure: Settings>Products>…of a customer.

Create the product:*Z_1610,* and activate it.

(2) Configure: Settings>Process Modules>…of a customer.

Select process 00001610, FM: ZSAMPLE_PROCESS_00001610, product: **Z_1610**

To validate the FM is activated in F110, we set up a break point in function module. and Here bellow is the testing FM:

FUNCTION ZSAMPLE_PROCESS_00001610.

```
*"----------------------------------------------------------------

*"*"Local Interface:

*"  IMPORTING

*"     VALUE(I_PAYRQ) LIKE  PAYRQ STRUCTURE  PAYRQ

*"  EXPORTING

*"     VALUE(E_VALUT) LIKE  SY-DATUM

*"----------------------------------------------------------------

BREAK-POINT.

I_PAYRQ-VALUT = '20150227'.

E_VALUT = I_PAYRQ-VALUT.

ENDFUNCTION.
```

That is all. Highly appreciated for your advice.

Eric

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Former Member

May 11, 2015 at 4:01 am

useful document,thanks for sharing.☐

Like 0 | Share

Paulo Roberto Ribeiro de Campos

May 11, 2015 at 7:20 pm

Very good! Thanks

Like 0 | Share

Jatan Saraf

May 21, 2015 at 10:33 am

Simple to understand and Very much helpful !!!

Like 0 | Share

John Vo

September 20, 2015 at 3:11 pm

Thanks, very helpful…

Can we apply this for anothor module (SD, MM…)

I tried to use with Tcode MIRO, but it can not trigger debuging.

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Former Member
February 6, 2016 at 5:40 pm

Thank you, this a good introduction to the topic for a beginner such as myself.

Like 0 | Share

Former Member
April 12, 2016 at 5:35 am

Great Document.

Thanks a lot for sharing your knowledge.

Regards

Like 0 | Share

Pras Venkat
April 15, 2016 at 12:25 pm

Another document which is useful on steps to use BTE. Thanks anyways.

Customer Name Addition to FBL5N Report Using BTE

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Srikanth Reddy Keesara

May 26, 2021 at 5:13 pm

Great. Thank You.

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