

FU BAPI_PO_CREATE1

Short Text

Create Purchase Order

Functionality

Function module **BAPI_PO_CREATE1** enables you to create purchase orders. The BAPI uses the technology behind the Enjoy purchase order transaction (**ME21N**).

Alternatively, the IDoc type PORDCR1 is available. The data from this IDoc automatically populates the interface parameters of the function module BAPI_PO_CREATE1.

Functions in Detail

Authorization

The following authorization objects are checked when an Enjoy purchase order is created (activity 01):

- **M_BEST_BSA** (document type in PO)
- **M_BEST_EKG** (purchasing group in PO)
- **M_BEST_EKO** (purchasing organization in PO)
- **M_BEST_WRK** (plant in PO)

Controlling adoption of field values via X parameter

For most tables, you can determine via your own parameters in the associated X parameter in each case (e.g. PoltemX) whether fields are to be set initial, values inserted via the interface, or default values adopted (e.g. from Customizing or master records) (for example, it is not mandatory to adopt the material group from an underlying purchase requisition - you can change it with the BAPI).

Transfer

- Header data
The header data of the Enjoy purchase order is transferred in the table PoHeader.
- Item data
The item data of the Enjoy purchase order is stored in the table **Poltem** (general item data). The delivery schedule lines are stored in the table **PoSchedule**.
Use the table **PoAccount** to specify the account assignment information. If account assignments have been specified for services and limits, you show the relevant account assignment line in PoAccount in the table **PoSrvAccessValues** via the package number of the service or the limit.
- Services and limits
Services, free limits and limits with contract reference can be specified in the tables **PoServices**, **PoLimits**, and **PoContractLimits**.
- Conditions
Conditions are transferred in the table **PoCond**; header conditions in the table **PoCondHeader**. Price

determination is reinitiated via the parameter **CALCTYPE** in the table **Poltem**.

- Vendor and delivery address

The vendor's address can be specified individually in the table **PoAddrVendor**; the delivery address in the table **PoAddrDelivery**. If you do not make any individual specification, the fields will be populated via the central address management facility.

Note

In this method, the following restrictions apply with regard to addresses:

Addresses can only be created with this method - they cannot be changed. You can only change address data with the method BAPI_ADDRESSORG_CHANGE.

When you create addresses, they are not checked by the method. An Enjoy purchase order may therefore contain faulty address data.

- Partner roles

The partners can be maintained individually via the table **PoPartner** (with the exception of the partner role "vendor").

- Import/export data

Import/Export data can be specified per item in the table **PoExplmplItem**. Foreign trade data can only be transferred as default data for new items.

- Texts

Header and item texts can be transferred in the tables **PoTextHeader** and **PoTextItem**. Texts for services are imported in the table **PoServicesText**.

- Version Management

You can make use of the Version Management facility via the table **AllVersions**.

Return

The PO number is returned in the parameter **ExpPurchaseOrder**. In addition, all information except the service and export/import tables is placed in the output structures.

Return messages

Messages are returned in the parameter **Return**. This also contains information as to whether interface data has been wrongly or probably wrongly (heuristic interface check) populated. When a PO has been created successfully, the PO number is also placed in the return table with the appropriate message.

Park and hold (*Public Sector Management; PSM*)

If you have activated the *PSM, US Federal Government - General Functions 2* (PSM_USFED_CI_2) business function, park is available as well as hold, providing a further option for saving documents temporarily.

You can use this function module to control the conditions under which purchase orders can be put on hold, parked, or saved. First, the system checks whether the created document contains errors. In documents with errors, the MEMORY_UNCOMPLETE and PARK_UNCOMPLETE parameters are evaluated. You control the system's behavior in documents that contain no errors in the MEMORY_COMPLETE and PARK_COMPLETE parameters.

For more information, see the parameter documentation.

Restrictions

With this function module, it is not possible to:

- Create subcontracting components (you can only use existing ones)
- Create configurations (you can only use existing ones)

- Change message records (table NAST) and additional message data (this data can only be determined via the message determination facility (Customizing))
- Attach documents to the purchase order

See also further information in SAP Note 197958.

Example

Example of population of BAPI interface in the [Function Builder](#)

Parameter: POHEADER

COMP_CODE = 1000
DOC_TYPE = NB
ITEM_INTVL = 00001
VENDOR = 0000001000
PMNTTRMS = 0001
PURCH_ORG = 1000
PUR_GROUP = 001
CURRENCY = EUR

Parameter: POHEADERX

COMP_CODE = X
DOC_TYPE = X
ITEM_INTVL = X
VENDOR = X
PMNTTRMS = X
PURCH_ORG = X
PUR_GROUP = X

Parameter: POITEM

PO_ITEM = 00001
MATERIAL = 100-100
PLANT = 1000
STGE_LOC = 0001
QUANTITY = 15.000
TAX_CODE = V0
ITEM_CAT = 0
ACCTASSCAT = K

Parameter: POITEMX

PO_ITEM = 00001
MATERIAL = X
PLANT = X
STGE_LOC = X
QUANTITY = X
TAX_CODE = X

ITEM_CAT = X
ACCTASSCAT = X

Parameter: POSCHEDULE

PO_ITEM = 00001
SCHED_LINE = 0001
DELIVERY_DATE = 02.12.2002
QUANTITY = 6.000
PO_ITEM = 00001
SCHED_LINE = 0002
DELIVERY_DATE = 03.12.2002
QUANTITY = 5.000
PO_ITEM = 00001
SCHED_LINE = 0003
DELIVERY_DATE = 04.12.2002
QUANTITY = 4.000

Parameter: POSCHEDULEX

PO_ITEM = 00001
SCHED_LINE = 0001
PO_ITEMX = X
SCHED_LINEX = X
DELIVERY_DATE = X
QUANTITY = X
PO_ITEM = 00001
SCHED_LINE = 0002
PO_ITEMX = X
SCHED_LINEX = X
DELIVERY_DATE = X
QUANTITY = X
PO_ITEM = 00001
SCHED_LINE = 0003
PO_ITEMX = X
SCHED_LINEX = X
DELIVERY_DATE = X
QUANTITY = X

Parameter: POACCOUNT

PO_ITEM = 00001
SERIAL_NO = 01
QUANTITY = 15.000
GL_ACCOUNT = 0000400000
COSTCENTER = 0000001000
CO_AREA = 1000

Parameter: POACCOUNTX

PO_ITEM = 00001
SERIAL_NO = 01
QUANTITY = X
GL_ACCOUNT = X
COSTCENTER = X
CO_AREA = X

Parameter: POCOND

ITM_NUMBER = 000001
COND_ST_NO = 001
COND_TYPE = PB00
COND_VALUE = 79.900000000
CURRENCY = EUR
CURRENCY_ISO = EUR
COND_UNIT = KG
COND_P_UNT = 1
CHANGE_ID = U

Parameter: POCONDX

ITM_NUMBER = 000001
COND_ST_NO = 000
ITM_NUMBERX = X
COND_TYPE = X
COND_VALUE = X
CURRENCY = X
CHANGE_ID = X

Parameter: POPARTNER

PARTNERDESC = OA
LANGU = EN
BUSPARTNO = 0000001100
PARTNERDESC = GS
LANGU = EN
BUSPARTNO = 0000001200
PARTNERDESC = PI
LANGU = EN
BUSPARTNO = 0000001000

Help with Problems

- SAP Note 197958 lists answers to frequently asked questions (FAQs). (Note 499626 contains answers to FAQs relating specifically to External Services Management.)
- If you have detected an error in the function of a BAPI, create a reproducible example in the test data directory in the Function Builder (transaction code SE37). SAP Note 375886 tells you how to do this.
- If the problem persists, create a Customer Problem Message for the component MM-PUR-PO-BAPI, and document the reproducible example where appropriate.

Customer Enhancements

The following customer exits (function modules) are available for the *BAPI BAPI_PO_CREATE1*:

- EXIT_SAPL2012_001 (at start of BAPI)
- EXIT_SAPL2012_003 (at end of BAPI)

The following customer exits (function modules) are available for the *BAPI BAPI_PO_CHANGE*:

- EXIT_SAPL2012_002 (at start of BAPI)
- EXIT_SAPL2012_004 (at end of BAPI)

These exits belong to the enhancement **SAPL2012** (see also transaction codes SMOD and CMOD).

There is also the option of populating customers' own fields for header, item, or account assignment data via the parameter EXTENSIONIN.

Further information

- Further information on purchase order BAPIs is available in SAP Note 197958.
- If you test the BAPIs BAPI_PO_CREATE1 or BAPI_PO_CHANGE in the Function Builder (transaction code SE37), no database updates will be carried out. If you need this function, take a look at Note 420646.
- The BAPI BAPI_PO_GETDETAIL serves to read the details of a purchase order. The BAPI cannot read all details (e.g. conditions). However, you can use the BAPI BAPI_PO_CHANGE for this purpose if just the document number is populated and the invoker has change authorizations for purchase orders.
- Frequently used BAPIs for purchase orders are BAPI_PO_CREATE, BAPI_PO_CREATE1, BAPI_PO_CHANGE, BAPI_PO_GETDETAIL, BAPI_PO_GETITEMS, BAPI_PO_GETITEMSREL, and BAPI_PO_GETRELIINFO.
- For more information on purchase orders, refer to the SAP library (under MM Purchasing -> Purchase Orders) or the Help for the Enjoy Purchase Order, or choose the path Tools -> ABAP Workbench -> Overview -> [BAPI Explorer](#) from the SAP Easy Access menu.

Parameters

POHEADER
POHEADERX
POADDRVENDOR
TESTRUN
MEMORY_UNCOMPLETE
MEMORY_COMPLETE
POEXPIMPHEADER
POEXPIMPHEADERX
VERSIONS
NO_MESSAGING
NO_MESSAGE_REQ
NO_AUTHORITY
NO_PRICE_FROM_PO
PARK_COMPLETE
PARK_UNCOMPLETE
EXPPURCHASEORDER
EXPHEADER

EXPPOEXPIMPHEADER
RETURN
POITEM
POITEMX
POADDRDELIVERY
POSCHEDULE
POSCHEDULEX
POACCOUNT
POACCOUNTPROFITSEGMENT
POACCOUNTX
POCONDHEADER
POCONDHEADERX
POCOND
POCONDX
POLIMITS
POCONTRACTLIMITS
POSERVICES
POSRVACCESSVALUES
POSERVICESTEXT
EXTENSIONIN
EXTENSIONOUT
POEXPIMPITEM
POEXPIMPITEMX
POTEXTHEADER
POTEXTITEM
ALLVERSIONS
POPARTNER
POCOMPONENTS
POCOMPONENTSX
POSHIPPING
POSHIPPINGX
POSHIPPINGEXP
SERIALNUMBER
SERIALNUMBERX
INVPLANHEADER
INVPLANHEADERX
INVPLANITEM
INVPLANITEMX

Exceptions

Function Group

2012