Technical Information on the OCI Interface

Mercateo

Version 1.9 (16-09-2016)

Contents

mercateo

1 Creating the shopping basket and transmitting the order over the interface

Using the so-called punch-out approach, known as OCI in SAP, the buyer can jump from your ERP/SRM to the Mercateo procurement platform. On this platform, he selects the desired items and thus creates a shopping basket at Mercateo. This is sent to your ERP/SRM system as a purchase order request or offer, which can then go through your internal approval process. It is also possible to access the address data and cost centres of the ERP. Following approval, the order is sent from your ERP/SRM system to Mercateo.

If you have chosen to host exclusive catalogues at Mercateo, then a shopping basket may contain mixed items (Mercateo items and exclusive catalogue items), in which case the respective supplier number will be specified at the item level so that the requisition form can be split up into different orders and sent to the respective suppliers by your ERP.

From a technical perspective, a button will be set up in your ERP/SRM containing a link with parameters that you can configure, including access data. When the buyer/requester clicks this button, he triggers the jump to the Mercateo procurement platform. After selecting the items, a Back button will appear on the shopping basket page in the shop for sending the purchase order request to your system as an offer.

2 Flowchart

3 Parameters for configuring the OCI URL

The link that performs the jump to the Mercateo shop contains parameters that are assigned certain values. The following example contains the mandatory parameters.

```
http://www.mercateo.com/basket/oci?USERNAME=IhrUSERNAME&PASSWORD=Ihr
PASSWORD&NEW_ITEM-MATGROUP=__CUSTCLASSSYS__&NEW_ITEM-
VEN-
DOR=IhreMercateoKreditorennummer&keepBasketAtExport=false&hideChecko
utButton=true&HOOK_URL=http://www.mercateo.com/basket/httpecho
```

If multiple parameters are to be transferred in the URL they can be linked using an ampersand (&). In an URL which appears in a browser a parameter consists of a name and a value that is assigned by an equals symbol; see also example URL above.

Generally, OCI fields are truncated to 255 characters. Should more than 255 characters be required, we recommend using the parameter NEW_ITEM-CUST_FIELDx (where x can stand for 1 to n options), since this field supports 1,000 characters.

Parameters that begin with "NEW_ITEM-" can have any suffix added onto the name. (NEW_ITEM-… can also be replaced with NI-…)

For example:
```
NEW_ITEM-CUST_FIELDx,
NEW_ITEM-MatGroup,
NEW_ITEM-SomeName.
```

Mercateo can loop through fixed parameter values (e.g. `shippingMatGroup=99009900`) and transfer variable values (e.g. `NEW_ITEM-MATGROUP=__CUSTCLASSSYS__`); the parameter value is separated by "`__`" (two underscores).

If you entered URL parameters into your system for Mercateo direct entry such parameters will overwrite the parameters preset in the Mercateo system.

Depending on your ERP system, the parameters can also be entered into a table (e.g. SAP).
The figure "Sample OCI SAP" presents an example table from SAP.

Web Service ID	Mercateo		

Die eingegebenen Daten werden über HTTP übertragen; Sie sind evtl. für den Benutzer sichtbar

Aufrufstruktur Standard			
Lfd	**Parametername**	**Parameterwert**	**Typ**
10		https://www.mercateo.com/basket/oci?	URL
20	USERNAME	Kundennummer	Festwert
30	PASSWORD	**************************************	Festwert
40	externalUserId	SY-UNAME	SAP-Feld
50	secureMode	true	Festwert
120	HOOK_URL		Rücksprung-URL

Sample OCI SAP

3.1 Required Parameters (minimum requirement of Mercateo)

The following parameters satisfy the Mercateo minimum requirements and are accordingly required parameters.

Direct entry URL

The direct entry URL represents the target address and reads as follows for the Mercateo catalogue `https://www.mercateo.com/basket/oci?` or `https://www.mercateo.com/basket/oci` (depending on your ERP-system and version).

USERNAME

This parameter is for authentication and typically contains the customer number assigned by Mercateo.

PASSWORD

Mercateo assigns a unique password. If customer-specific views will be created, then Mercateo will assign additional passwords. The password for the respective view must be entered into the URL as a parameter value.

Note: The PASSWORD parameter is **not** the same password used for logging into www.mercateo.com.

secureMode=true

By setting secureMode=true the complete Mercateo page will be transmitted via https, thus encrypted. As the OCI login is done via https no confirmation messages will be shown in the browser when non-encrypted pages (such as article pages) are invoked as such pages will also be delivered using https.

HOOK_URL

This parameter sets the return address for the customer's e-procurement system. (http://...).
In the example hyperlink above, the HOOK_URL is defined as `&HOOK_URL=http://www.mercateo.com/basket/httpecho`. This http echo is intended as a verification function, since it echoes the return values in the browser instead of sending the order to the (customer's) ERP system.

Note: If using a SAP system, this parameter should be sent in the <u>**last position**</u>. Otherwise, it cannot be guaranteed that the parameters after it will be correctly communicated.

3.2 Automatically transmitted article information

Parameters that are automatically sent in the order are: item number (NEW_ITEM-EXT_PRODUCT_ID), price (NEW_ITEM-PRICE), price unit (NEW_ITEM-PRICEUNIT), quantity (NEW_ITEM-QUANTITY), item unit (NEW_ITEM-UNIT), item description (NEW_ITEM-DESCRIPTION), item long description (NEW_ITEM-

LONGTEXT), currency (NEW_ITEM-CURRENCY), offer number/basket ID (NEW_ITEM-EXT_QUOTE_ID) and delivery time (NEW_ITEM-LEADTIME; in days).

3.3 Parameters for basic settings

Various basic settings can be made using the following parameters.

http_content_charset

Default value: UTF-8
Valid values: UTF-8, iso-8859-15

This parameter sets the accept-charset attribute in the <form> tag for the return. If this parameter is not set, then the default value utf-8 will be used.
If the parameter `http_content_charset=UTF-8` is sent when calling the catalogue, then Mercateo sets the attribute `accept-charset="UTF-8"` in the OCI data form to let the browser know the preferred parameter coding when creating the HTTP request. However, this is not supported by all browsers.

Note: If, despite this, the characters are still not displayed correctly, then add the parameter `NEW_ITEM-IEHACK=☠`

externalUserId (old shoppingListGroup)

The user identification must be transmitted in the field `externalUserId` in order to personalise individual users upon entering Mercateo and partner web shops.

externalUserIdParam (old slGroupParam)

If the user identification cannot be transmitted in the field "`externalUserId`", but only in the field "`BENUTZER`" Mercateo needs the information regarding the parameter in which the user-specific identification is transmitted. This can be set using the parameter "`externalUserIdParam`":
`externalUserIdParam=BENUTZER`

NEW_ITEM-VENDOR

The `NEW_ITEM-VENDOR` is where the customer stores the creditor number for Mercateo. If this parameter is set in the OCI URL (e.g. `NEW_ITEM-VENDOR=08154711`), then the value "08154711" will be written back to the parameter for the selected items from the public shop for the order. If these are items from exclusive catalogues, then Mercateo replaces "08154711" with the creditor number provided to us for the corresponding exclusive catalogue.

priceUnitIsQuantity

Default values: true
Valid values: true, false

This parameter controls whether the unit price (or the price for a price quantity if one exists) or the total price relating to the ordered quantity shall be sent in the field `NEW_ITEM-PRICE`.
If `priceUnitIsQuantity=true`, then the total price will be sent and the value of `NEW_ITEM-PRICEUNIT` will be set to `NEW_ITEM-QUANTITY`.

Note: If shipping cost splitting has been set for the respective customer, i.e. shipping costs will be distributed over the item prices by percentage, then this parameter will be ignored.

Target
Default value: _top
Valid values: _top, _parent, _main, frameset

The `target` attribute is set in the `<form>` tag for the return. If this parameter is not set, then the default value _top will be used. For `frameset`, specify the desired frame in which the page shall be displayed.

3.4 Mercateo-specific system parameters

ociButtonName
This parameter can be used for labelling the "OCI Export" button on the shopping basket page. Maximum 30 characters are allowed. Spaces and umlauts should be avoided.
e.g. `ociButtonName=SAP-Jump`

hideCheckoutButton
Default value: false
Valid values: true, false

If `true`, then the normal "Proceed to checkout" button on the shopping basket page will be hidden.

hideSendBasketButton
Default value: false
Valid values: true, false

If the value `true` is sent, then this parameter hides the "Send shopping basket" button on the shopping basket page.

punchoutFormAutoCommit
Default value: false
Valid values: true, false

If `true`, then the second query for sending the shopping basket will be automatically performed.

keepBasketAtExport
Default value: false
Valid values: true, false

If `false`, then the Mercateo shopping basket cookie ("korb2") will be deleted from the browser by JavaScript when the OCI Export button is clicked.

3.5 NEW_ITEM mappings for standard Mercateo features

NEW_ITEM-CUST_FIELD3=__TAX__

Value added tax is product-dependent – In Germany it is either 7% or 19%.

a) You use `NEW_ITEM-CUST_FIELD3=__TAX__` to configure the product's VAT to be sent in this field. When the data is sent, you get `NEW_ITEM-CUST_FIELD3=0.19` or `NEW_ITEM-CUST_FIELD3=0.07`

b) With `NEW_ITEM-CUST_FIELD3=__TAX100__`, you configure the product's VAT to be sent as a percentage.

c) With `NEW_ITEM-CUST_FIELD3=__TAX[0.07=a,0.19=b,*=c]__`, you can custom define which value shall be sent for the respective value added tax rate (e.g. 7% is mapped to "a", 19% to "b", and everything else to "c").

NEW_ITEM-CUSTOM1=__DELIVERYDATE__

The parameter `NEW_ITEM-CUSTOM1=__DELIVERYDATE__`
returns the delivery date (DD-MM-YYYY).

Note: Bear in mind that time passes during your internal approval process, which you would have to add to the above delivery date. Also, the stocks and thus the delivery time may have changed.

NEW_ITEM-CUST_FIELD2=__RCDESC__

The respective return conditions are sent as plain text. We recommend you add this information to the end of the item long description (NEW_ITEM-CUST_FIELD), since this field supports up to 1,000 characters.

NEW_ITEM-…=__MANUFACTURER__

The manufacturer name is transmitted by the parameter `NEW_ITEM-…=__MANUFACTURER__`

NEW_ITEM-…=__MANUFACTURER_AID__

The manufacturer item number is transmitted by the parameter `NEW_ITEM-…=__MANUFACTURER_AID__`

NEW_ITEM-…=__EAN__

The EAN code is transmitted by the parameter `NEW_ITEM-…=__EAN__`

3.6 Parameters and NEW_ITEM mappings for material groups

NEW_ITEM-MATGROUP=__CUSTCLASSSYS__

The customer uses the `NEW_ITEM-MATGROUP=__CUSTCLASSSYS__` parameter to address the material group. The classification system is set by the Mercateo OCI configuration in the customer-specific view. For this, Mercateo offers the material groups eClass and UNSPSC. Should you prefer customer-specific material group mapping, please contact your Mercateo project manager, who will go through all the further details with you.

NEW_ITEM-EXT_SCHEMA_TYPE

With this parameter you can transmit the classification standard of the material group. The notation of the classification standard can be set individually.
e.g. `NEW_ITEM-EXT_SCHEMA_TYPE=__CUSTCLASSSYSTYPE__` or
`NEW_ITEM-EXT_SCHEMA_TYPE=__CUSTCLASSSYSTYPE[UNSPSC=Unspsc]__`

If the item does not contain any information about the classification system, a default classification standard can be used with parameter: `defaultMaterialGroupType`
e.g. `defaultMaterialGroupType=ECLASS`

shippingMatgroup

If you want to send a constant material group for the shipping costs, such as eClass 25070600 for example, then you must set this parameter as follows:
`shippingMatGroup=25070600`
This parameter can only be used if the shipping costs are sent as a separate line item (see Point 3.8 *Parameters for shipping costs*).

3.7 NEW_ITEM allocations for inventory accounts relating to products and shipping costs

NEW_ITEM-xxx[P]=__FEATURE[K-KundennameSK]__
(old NEW_ITEM-MATGROUP1)

With the parameter `NEW_ITEM-xxx[P]=__FEATURE[K-KundennameSK`[1]`]__` the customer addresses the inventory account.

NEW_ITEM-xxx[S]=0815

If the shipping costs are transmitted as a separate item a fixed inventory account can be determined this way.
e.g.
([P] = Product)
([S] = Shipping costs)
```
    NEW_ITEM-SACHKONTO[P]=__FEATURE[K-KundennameSK¹]__
    NEW_ITEM-SACHKONTO[S]=0815
```

---

[1] Will be determined by Mercateo

Should you prefer to send the ledger account, please contact your Mercateo project manager, who will go through all the further details with you.

3.8 Parameters for shipping costs

The shipping costs can be sent as a separate item or added to the percentile item price (shipping cost splitting). Shipping cost splitting is set in the customer configuration by the Mercateo project manager.

skipZeroPriceSupplierLines

Default value: false
Valid values: true, false

This parameter configures the sending or suppression of shipping cost items valued at €0.
If no **shipping cost splitting** has been set for the customer, then this parameter must be set to `true`.

shippingMatGroup

Should you receive shipping costs as a separate line item, you can store a constant material group for the shipping costs. For the example eClass 25070600, you would set the parameter as follows: `shippingMatGroup=25070600`
You will find more information about the material group under Point 3.6 Parameters and NEW_ITEM mappings for material groups.

ociItemserviceMode

Default value: ZERO_ONE
Valid values: OMIT, TRUE_FALSE, ZERO_ONE, ONE_ZERO

Should you receive shipping costs as a separate line item, you can use this parameter to configure whether the item is a product or shipping costs.

OMIT = The item row will be omitted
TRUE_FALSE = If *true*, then shipping – if *false*, then product
ZERO_ONE = If *"0"*, then shipping – if *"1"*, then product
ONE_ZERO = If *"1"*, then shipping – if *"0"*, then product

3.9 NEW_ITEM mappings for attachments

NEW_ITEM-SIDAB=__SIDAB__

The `NEW_ITEM-SIDAB =__SIDAB__` parameter will return the value "1" if a safety data sheet exists. In this case, the URL to the safety data sheet will be sent in the field `NEW_ITEM-ATTACHMENT`. `NEW_ITEM-SIDAB` returns a value of "0" if there is no

safety data sheet. An alternative to this is the parameter `NEW_ITEM-ATTACHMENT=__MIME[safetydatasheet]__`.

NEW_ITEM-ATTACHMENT=__MIME__

This parameter allows access to URLs of pictures, data sheets and safety data sheets. An alternative to this is the parameter `NEW_ITEM-SIDAB=__SIDAB__`.
For example:
NEW_ITEM-ATTACHMENT=__MIME[**image**]__
NEW_ITEM-ATTACHMENT=__MIME[**datasheet**]__
NEW_ITEM-ATTACHMENT=__MIME[**safetydatasheet**]__ (Alternative to
NEW_ITEM-SIDAB)

allowAttachments

Default value: true
Valid values: true, false

The transmission of attachments by default can be switched off with `allowAttachments=false`.

3.10 Parameters for search key word transmission

Using the parameter `routing=category&id=xx` you can transmit the user search key word to the Mercateo procurement platform. In case of an OCI entry the corresponding Mercateo page of the search key word opens directly.
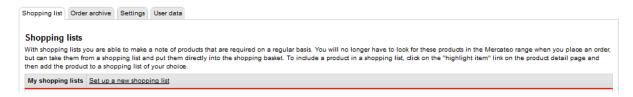Please transmit umlauted letters such as ä, ö, ü as ae, oe, ue and ß as double-s.
Example: User entry: Transmitting "Bürobedarf" to Mercateo: `routing=category&id=Buerobedarf`

3.11 Shopping lists / Multi-user-ability / Connecting to external webshops

You enable the shopping list function on your Mercateo procurement platform using the following parameters. Should you have any questions regarding shopping lists, please contact your Mercateo project manager.
To do so, the entry via HTTPS, setting the parameter `secureMode=true` and the transmission of the user-specific identification in the parameter `externalUserId=xx` is required.

enableShoppingLists

Default value: false

Valid values: true, false

`enableShoppingLists=true` is required to use the mentioned functions.

3.12 Modifying a shopping basket

This function allows the user to modify shopping baskets or purchase order requests after sending of the shopping basket and before sending the order.

These changes may only be done using this function since article prices and shipping costs can depend on the order quantities. If the shopping basket has only been changed in your system, then this could lead to errors when ordering.

For this process, a new (!) shopping basket is created and exported. The old shopping basket must be disabled in your system.

You can use these functions using 2 variants, namely manually entering the offer number / shopping basket by the requester or automatically via a dynamic jump to the existing shopping basket.

The information for the existing shopping basket is contained in the respective OCI return fields:

NI-EXT_QUOTE_ID (formerly: NEW_ITEM-EXT_QUOTE_ID)
Parameter value: __EXPORTID__

The offer number created can be taken from the OCI return field NI-EXT_QUOTE_ID.

EXT_QUOTE_ITEM
Parameter value: (no value required)

The item number of the shopping basket can be taken from the OCI return field EXT_QUOTE_ITEM.

Variant 1:
Manual input of the offer number / shopping basket number:

showGo2QuotField

Default value: false

Valid values: true, false

Upon OCI jump to Mercateo, this parameter shows on the shopping basket site an input field for order / shopping basket numbers if no items have been selected. There, the customer can make any necessary modifications to the existing offer. That means, you enter the offer / shopping basket ID into the search field presented and thereby access the existing offer in order to make the necessary corrections.

Variant 2:
Dynamic jump for calling the existing shopping basket

Another call possibility (URL) is created which copies offer / shopping basket number of the existing offer and opens it on the Mercateo website.

routing=basket&id=<Id>

This parameter sends the ID of the existing offer / shopping basket to the Mercateo system.

e.g. shopping basket xyz0815 is called using the parameter routing=basket&id=xyz0815.

In this case, the ID readout from the OCI return value NI-EXT_QUOTE_ID must take place in your system.

Your Mercateo project manager will gladly answer any questions about modifying the shopping basket.

3.13 Resending the shopping basket

With this function, you allow the requester to receive a **new** offer/shopping basket from an **already approved** request. (I.e., it contains the same items) This must then be approved again and sent as an order.

Analogous to the 2 variants of modifying the shopping basket, you jump into the first already ordered offer, make the necessary corrections for the new purchase order request and send the order.

Your Mercateo project manager will gladly answer any questions about resending the shopping basket.

Your project manager will also gladly advise you if you have connected a custom OCI web shop via your Mercateo solution, where you have to send the item offer number directly to your supplier.

4 Support

If **technical problems** or **questions regarding the interface** occur after being connected succesfully, our support team will be more than happy to assist.
Our support team can be contacted Monday to Friday between 8am and 5pm (CET) by email support@mercateo.com or phone +49(0)89-21129027.
Please note that our support team is only providing support on technical matters and troubleshooting.