



WooCommerce OCI Checkout Version 2.0.0

User Documentation

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OVERVIEW

WooCommerce Open Catalog Interface (OCI) connects your WooCommerce store to SAP procurement systems through the SAP Open Catalog Interface (OCI). The plugin turns WooCommerce into an external punchout catalog: a buyer working in SAP (SRM, ECC or S/4HANA self-service procurement) “punches out” into your shop, builds a basket as usual, and the items are posted back into the SAP shopping cart — including material number, price, currency, unit, lead time and vendor data.

The plugin supports OCI 2.0 up to OCI 5.0 and ships with a backend setting so you can pick the version that matches your SAP release (SAP ECC EHP6 ... S/4HANA).

Version	2.0.0
Author	Ralf Fuhrmann
License	GPL-2.0-or-later
Requirements	WordPress 6.9+, WooCommerce 8.0+ (tested up to 10.9), PHP 7.4+
SAP compatibility	SAP ECC (EHP6+), SAP SRM, SAP S/4HANA
Languages	English and German (fully translated)

WHAT IS OCI?

The Open Catalog Interface (OCI) is the SAP standard for connecting external web catalogs to SAP procurement applications (SAP SRM, SAP ECC Materials Management, SAP S/4HANA self-service procurement). The process is called “punchout”:

- The buyer starts a catalog from within SAP.
- SAP opens the external catalog (your shop) in a browser or control and hands over a HOOK_URL plus authentication parameters.
- The buyer shops in the external catalog.
- On checkout the catalog returns the basket to SAP by HTTP POST of a set of hidden fields named NEW_ITEM-<FIELD>[<line>] to the HOOK_URL.

This plugin implements both the inbound (gateway / login) and the outbound (basket transfer) side of that flow.

HOW THE PLUGIN WORKS

- Gateway / login — SAP calls the OCI Gateway page with USERNAME, PASSWORD and HOOK_URL. The plugin authenticates the matching WordPress user, stores the HOOK_URL in the WooCommerce session and redirects the buyer to the shop.
- Shopping — the buyer uses the normal WooCommerce shop and cart.
- Checkout redirect — while an OCI session is active, the WooCommerce checkout URL is rewritten to the OCI Checkout page.
- Basket transfer — the OCI Checkout page renders the cart as hidden NEW_ITEM-* fields and posts them to the HOOK_URL. The items land in the SAP shopping cart.

QUICK SETUP

INSTALL

- Copy the woocommerce-oci folder to wp-content/plugins/.
- Make sure WooCommerce is already installed and active.
- Activate "WooCommerce Open Catalog Interface (OCI)".
- On activation the plugin automatically creates two pages: OCI Gateway ([woocommerce_ocigateway]) and OCI Checkout ([woocommerce_ocicheckout]).

If the pages already exist they are reused. You can re-assign them at any time in WooCommerce → Settings → SAP OCI Punchout.

UPLOAD AND ACTIVATE

UPLOAD

After you have downloaded the 'WooCommerce Open Catalog Interface (OCI)' plugin, you need to upload it to your WordPress installation.

Please go to your 'Plugins / Add New' menu, select 'Upload Plugin' from the top links and choose the downloaded ZIP file at the upload field.

After selecting the file, please press the "Install Now" button.

ACTIVATE

After the plugin is uploaded you will get a success screen.

Please use the link "Activate Plugin" to activate the plugin.

CONFIGURATION

All settings live under WooCommerce → Settings → SAP OCI Punchout.

 Screenshot: The "SAP OCI Punchout" settings tab under WooCommerce → Settings

Settings

General Products Shipping Payments Accounts & Privacy Emails Integration Site visibility Point of Sale **SAP OCI Punchout** Advanced

SAP OCI Settings

Configure how the shop communicates with your SAP system.

OCI Version  OCI 4.0 (SAP ECC EHP6, SRM 7, S/4HANA) 

OCI Gateway Page  OCI Gateway 

OCI Checkout Page  OCI Checkout 

Default Item Unit
Unit of measure used when a product has no own unit (e.g. PCE, EA, KGM).

Default Item Leadtime
Lead time in days used when a product has no own lead time.

Default Item Material Group
Material group used when a product has no own material group.

Save changes

OCI VERSION & SAP RELEASES

The OCI Version setting controls which OCI fields are transferred to SAP. Choose the value that matches your SAP system:

OCI version	Typical SAP releases	Notes
2.0	legacy SAP systems	core field set only
3.0	SAP SRM, SAP ECC	adds EXT_PRODUCT_ID, EXT_QUOTE_*, CUST_FIELD1-5
4.0	SAP ECC EHP6+, SAP SRM 7, S/4HANA	adds attachments, schedule lines, ext. categories
5.0	latest S/4HANA	adds GROUPING_STRING

Recommendation: OCI 4.0 is a safe default that is understood by SAP ECC (EHP6+) as well as S/4HANA. Use 5.0 only if your S/4HANA configuration explicitly requires it. SAP silently ignores unknown NEW_ITEM fields, so a slightly higher version is usually harmless – but matching the version keeps the transfer clean and predictable.

PAGES

OCI Gateway Page: the entry point SAP calls (default: the auto-created OCI Gateway page).

OCI Checkout Page: the page that posts the basket back to SAP (default: the auto-created OCI Checkout page).

DEFAULT VALUES

These are used for products that do not define their own value:

Default Item Unit: ISO unit of measure (e.g. PCE, EA, KGM).

Default Item Leadtime: delivery lead time in days.

Default Item Material Group: SAP material group.

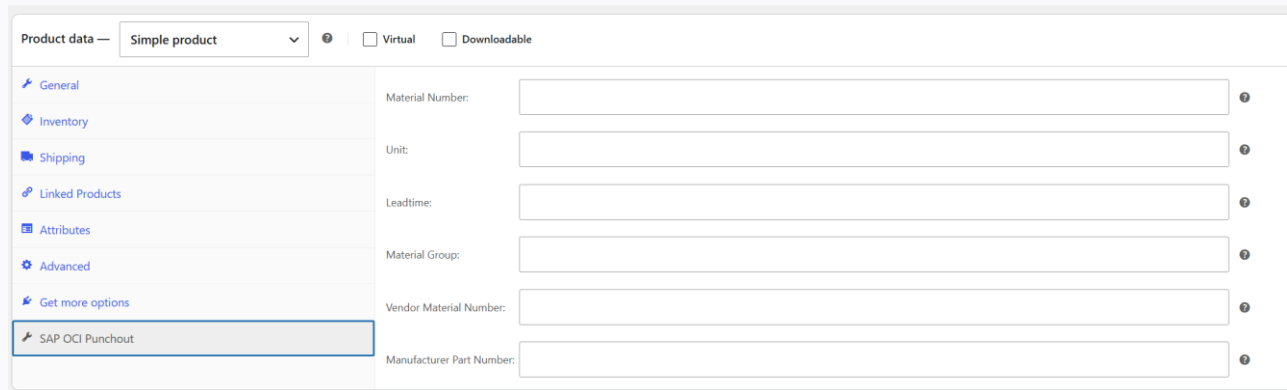
PER-PRODUCT DATA

Each product has a SAP OCI Punchout tab (under Product data) with:

Field	OCI field	Description
Material Number	NEW_ITEM-MATNR	SAP material number
Unit	NEW_ITEM-UNIT	ISO unit of measure
Leadtime	NEW_ITEM-LEADTIME	lead time in days
Material Group	NEW_ITEM-MATGROUP	SAP material group
Vendor Material Number	NEW_ITEM-VENDORMAT	vendor material number
Manufacturer Part Number	NEW_ITEM-MANUFACTMAT	manufacturer part number

The product SKU is transferred as NEW_ITEM-EXT_PRODUCT_ID (OCI 3.0+) and the short description as NEW_ITEM-LONGTEXT.

 Screenshot: The "SAP OCI Punchout" product data tab



Product data — Simple product ☐ Virtual ☐ Downloadable

- General
- Inventory
- Shipping
- Linked Products
- Attributes
- Advanced
- Get more options
- SAP OCI Punchout**

Material Number:

Unit:

Leadtime:

Material Group:

Vendor Material Number:

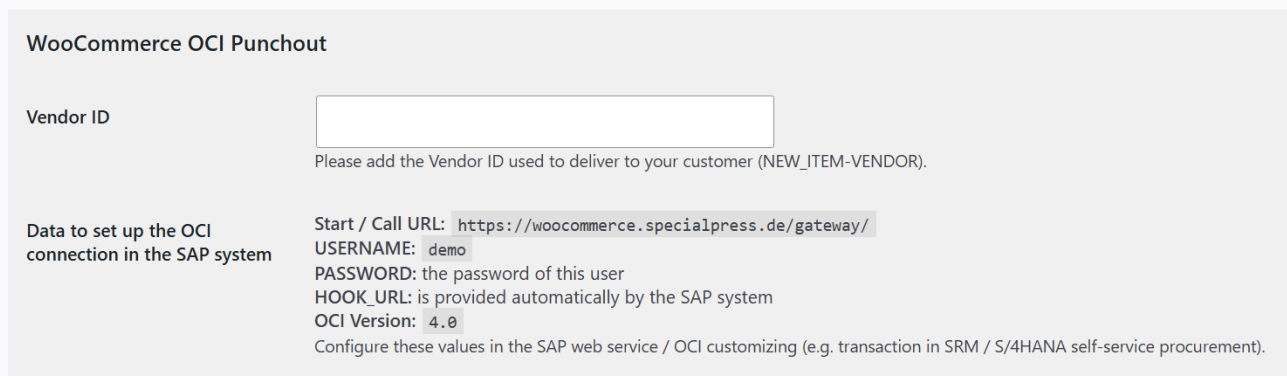
Manufacturer Part Number:

PER-USER VENDOR ID

On the user profile screen (Users → edit user) you can assign a Vendor ID (NEW_ITEM-VENDOR) to a user. The same screen shows the connection data the customer needs in SAP:

- Start / Call URL — the OCI Gateway URL
- USERNAME — the user login
- PASSWORD — the user's password
- OCI Version — the currently configured version

 Screenshot: Vendor ID and SAP connection data on the user profile screen



WooCommerce OCI Punchout

Vendor ID

Please add the Vendor ID used to deliver to your customer (NEW_ITEM-VENDOR).

Data to set up the OCI connection in the SAP system

Start / Call URL: `https://woocommerce.specialpress.de/gateway/`
 USERNAME: `demo`
 PASSWORD: the password of this user
 HOOK_URL: is provided automatically by the SAP system
 OCI Version: `4.0`
 Configure these values in the SAP web service / OCI customizing (e.g. transaction in SRM / S/4HANA self-service procurement).

SAP SIDE CONFIGURATION

In the SAP OCI customizing (e.g. SRM web service definition or S/4HANA self-service procurement) configure a web service / catalog with:

Parameter	Value	Type
URL	the OCI Gateway page URL	URL
USERNAME	the WordPress user login	fixed value
PASSWORD	the WordPress user password	fixed value
HOOK_URL	(left empty / set by SAP)	SAP field, returns the basket
returntarget	_top (web scenario)	fixed value, optional

SAP appends the HOOK_URL automatically; the plugin stores it and posts the basket back to it. For the classic SAP GUI HTML control, the HOOK_URL value SAPEVENT:POST is used automatically when SAP does not provide one.

TRANSFERRED OCI FIELDS

For every basket line the plugin emits the following hidden fields (<n> = 1-based line number), subject to the configured OCI version:

 Screenshot: Vendor ID and SAP connection data on the user profile screen

specialPress

Home

OCI Checkout

	PRODUCT	PRICE	QUANTITY
	Jacket	25,00 €	1

Send to ERP

Field	Source	Min. OCI
NEW_ITEM-DESCRIPTION[n]	product name	2.0
NEW_ITEM-MATNR[n]	product / default material number	2.0
NEW_ITEM-QUANTITY[n]	cart quantity (3 decimals)	2.0
NEW_ITEM-UNIT[n]	product / default unit	2.0

NEW_ITEM-PRICE[n]	product price	2.0
NEW_ITEM-CURRENCY[n]	shop currency	2.0
NEW_ITEM-PRICEUNIT[n]	always 1	2.0
NEW_ITEM-LEADTIME[n]	product / default lead time	2.0
NEW_ITEM-VENDOR[n]	user vendor id	2.0
NEW_ITEM-VENDORMAT[n]	product vendor material number	2.0
NEW_ITEM-MANUFACTMAT[n]	product manufacturer part number	2.0
NEW_ITEM-MATGROUP[n]	product / default material group	2.0
NEW_ITEM-LONGTEXT_n:132[]	product short description	2.0
NEW_ITEM-EXT_PRODUCT_ID[n]	product SKU	3.0

The version gating is defined in `SPWCOI::spwcoci_field_allowed()` and can be customized with the `spwcoci_field_min_version` filter.

HOOKS FOR DEVELOPERS

FILTERS

- `spwcoci_field_min_version` — change the minimum OCI version map per field.
- `wc_settings_tab_punchout_settings` — modify the settings fields.

ACTIONS

- `spwcoci_oci_item_fields( $line, $cart_item, $product, $oci_field )` — add custom NEW_ITEM-* fields per line. `$oci_field` is a printer callback function(`$field`, `$index`, `$value`).
- `spwcoci_product_write_panels( $post )` — add custom product fields.
- `spwcoci_process_product_meta( $post_id )` — save custom product fields.
- `woocommerce_before_oci_cart`, `woocommerce_before_oci_cart_table`, `woocommerce_before_oci_cart_contents`, `woocommerce_after_oci_cart_table`, `woocommerce_after_oci_cart` — output hooks around the OCI form.

TROUBLESHOOTING

The buyer is not logged in / sees an error on the gateway page. Check that the USERNAME / PASSWORD configured in SAP match an existing WordPress user. The gateway page shows the exact reason on failure.

Checkout is not redirected to the OCI page. The redirect only happens while an OCI session is active (i.e. after the gateway has stored a HOOK_URL). Verify the gateway step succeeded.

The basket does not appear in SAP. Verify the HOOK_URL is reachable from the browser and that the OCI version matches your SAP release. Inspect the hidden NEW_ITEM-* fields in the page source.

Wrong / missing fields in SAP. Adjust the OCI Version setting and the per-product OCI data.

REQUIREMENTS & COMPATIBILITY

- WordPress 6.9+
- WooCommerce 8.0+ (tested up to 10.9)
- PHP 7.4+
- A SAP system that supports OCI (ECC EHP6, SRM, or S/4HANA)
- Declares compatibility with WooCommerce High-Performance Order Storage (HPOS)

CHANGELOG

2.0.0 — 2026-06-30

- Complete refactoring of the plugin.
- Fixed several logical bugs, including a broken cart-contents access, an OCI line index that never increased, a deprecated user-meta function, and missing input sanitizing.
- Adapted to current WooCommerce (10.x) APIs; declared HPOS compatibility.
- Added OCI 2.0 / 3.0 / 4.0 / 5.0 support and a backend setting to choose the OCI version (SAP ECC EHP6 ... S/4HANA).
- Replaced the fragile native PHP session with the WooCommerce session handler.
- Hardened authentication, settings and product forms; added German / English documentation.

1.1.0 — 2023-10-20

- Fixed a problem with newer WordPress releases.