



OCI Flow

PunchOut Documentation

Guide for Magento administrators, technical project owners, and implementation teams.

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OCI Flow

OCI uses request parameters to open the Magento shopping session and an HTML form to post the finished cart back to the procurement system.

1. Receive the login request

The buyer calls `/punchout/oci/login` with GET or POST. The minimum integration values are:

- buyer identity through `buyer_id` or `USER`;
- the OCI username and password expected by the buyer profile;
- return URL through `hook_url` or `HOOK_URL`.

Common context values such as `FUNCTION`, currency, language and SAP session identifiers can also be retained for mapping. The login controller parses supported request fields directly; an inbound mapping-template fixture is not executed during login.

The buyer profile defines whether it uses OCI 4 or OCI 5. The request version must match the profile. For product-specific functions, `PRODUCTID` is resolved through the profile's external product ID source: Magento SKU or a configured globally unique product attribute.

2. Authenticate and create context

Magento resolves the buyer and store, applies IP/signature checks, verifies protocol and optional transport credentials, validates the HTTPS return URL and creates an expiring token. The JSON response includes the token and correlation ID.

The integration then opens `/punchout/session/activate?token=<token>`. This binds the browser session and applies the profile's customer-resolution mode. The session can remain a guest, use a fixed Magento customer, resolve a customer from the request, or create a customer through JIT e-mail mapping.

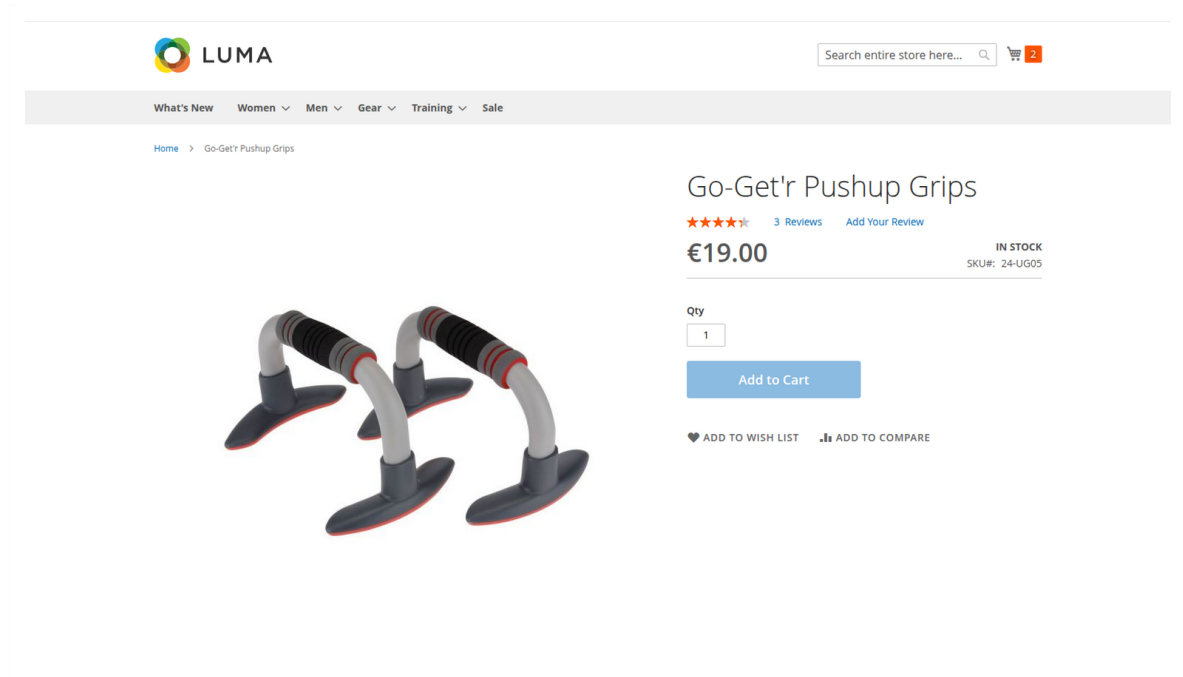
3. Select the OCI operation

The profile's OCI version and product-ID source are authoritative. `FUNCTION` does not switch the profile between OCI 4.0 and 5.0; it selects the supported storefront operation within that profile:

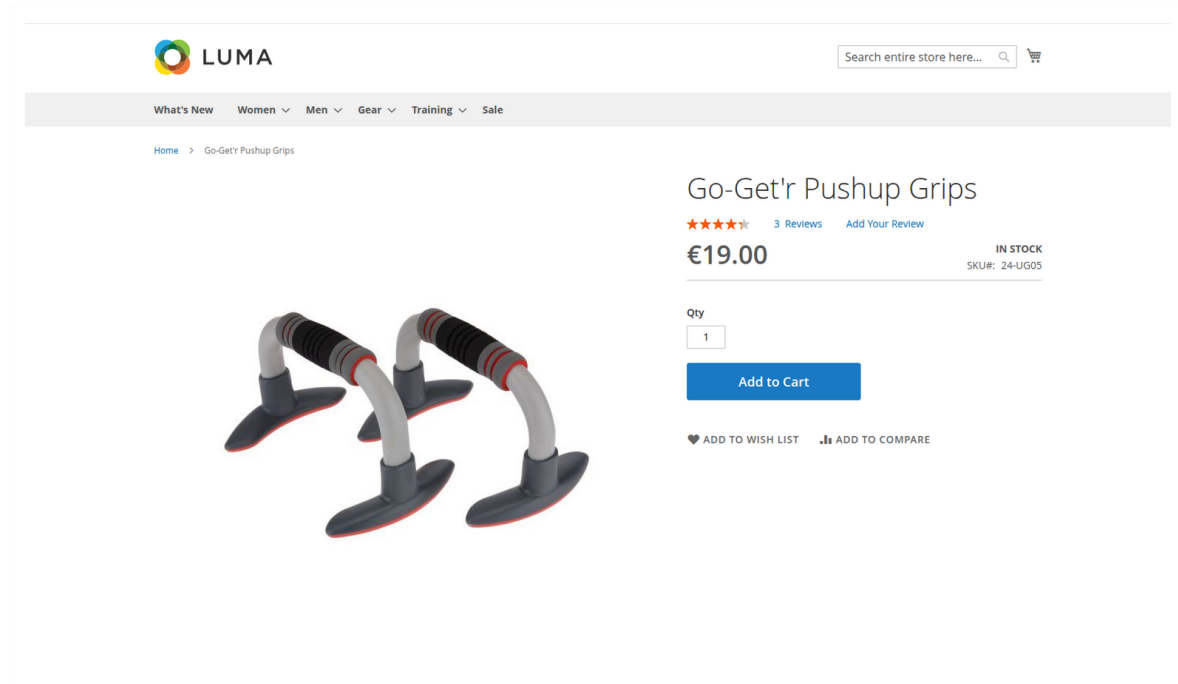
Request	Result	Cart/return behavior
omitted or <code>CREATE</code>	Normal catalog session	Isolated PunchOut quote; cart can be returned normally

Request	Result	Cart/return behavior
DETAIL + PRODUCTID	Exact product page	Product-specific session; no normal cart-building return action
DETAILADD + PRODUCTID on OCI 5.0	Exact product page, then one-item return after a successful add	The selected line is returned immediately; grouped products are rejected
VALIDATE , BACKGROUND_SEARCH or SOURCING	Explicit unsupported-function response	Never treated as a normal shopping session

PRODUCTID is resolved as the configured Magento SKU or the selected globally unique product attribute. **NEW_ITEM-EXT_PRODUCT_ID** is then emitted from that same profile-owned identifier and remains protected from ordinary mapping overwrite.



DETAILADD uses a separate OCI 5.0 session. The resolved product exposes one enabled Add to Cart action. After that single add, Magento prepares the one-line OCI return and navigates the browser to the validated receiver.



CONTROLLED HTTPS RECEIVER

PunchOut Return Received

● POST accepted · HTTP 200

Returned OCI line [1]

Receiver	cedarstone-procurement
External Product ID	24-UG05
Additional cost	€19.00
Product description	The Go-Get'r Pushup Grips safely provide the extra range of motion you need for a deep-dip routine targeting core, shoulder, chest and arm strength. Do fewer pushups using more energy, getting better results faster than the standard floor-level technique yield. Durable foam grips. Supportive base.

Sanitized view of the actual receiver response. Request headers and infrastructure details are omitted.

4. Build the cart

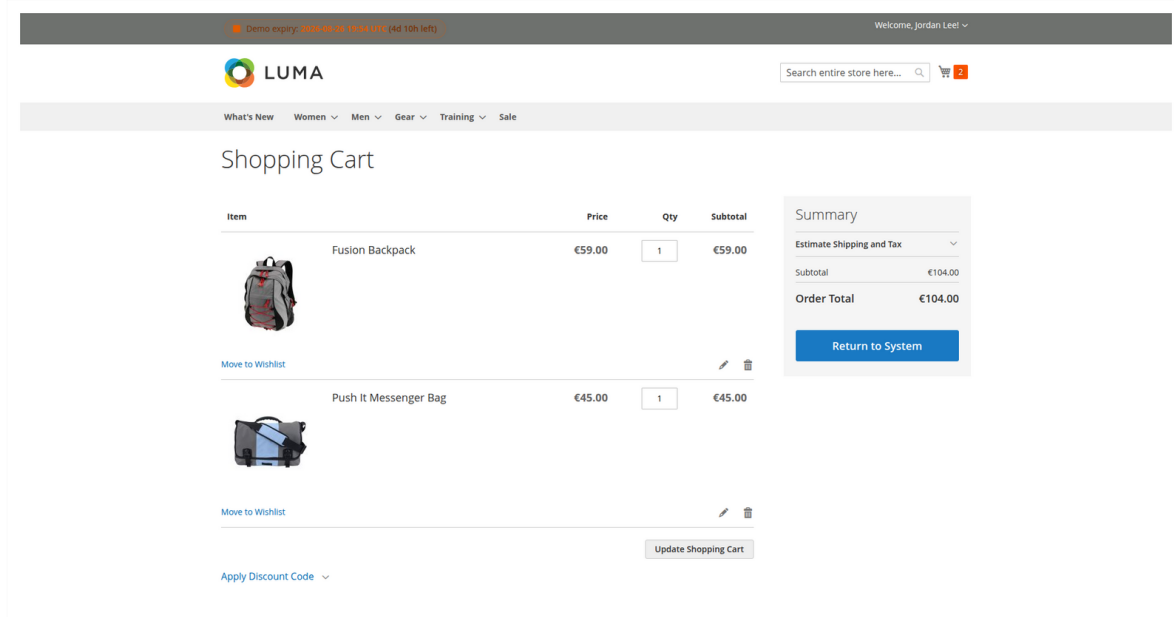
The buyer shops in Magento or uses the tokenized cart endpoints. Prices come from Magento unless inbound cart prices are explicitly enabled. The frontend operation policy applies the selected OCI function:

- a normal request opens the configured shopping flow;
- **DETAIL** opens the product resolved from **PRODUCTID**;

- OCI 5 **DETAILADD** permits one successful Add to Cart action and immediately returns that single line to the procurement system.

Unsupported OCI functions and version mismatches are rejected instead of being treated as a normal shopping request.

5. Return the cart



The storefront **Return to System** action calls `/punchout/session/back`. Magento attaches the active quote, applies the assigned outbound mapping and renders an auto-submit form to the validated hook URL.

Without a custom mapping, the core OCI payload includes indexed description, quantity, unit, price, currency and material-number fields. With a mapping profile, its target keys and required rules control the output. **NEW_ITEM-EXT_PRODUCT_ID** is protected system output and always uses the identifier configured on the buyer profile.

Direct API clients can call **POST** `/punchout/oci/transfer`; the HTML form is then returned as the **payload** value of a JSON response and is not posted automatically by that API call.

6. Handle retries

Send **X-Punchout-Request-Key** on direct transfers. Reuse the key only for the same semantic request. A changed request with the same key returns HTTP 409.

Start with an outbound template from **OCI and SAP Templates**, then validate the fields with the buyer's OCI specification.