

Reference Manual

UPS Universal Shipping for Magento 2.x — Extmag_UpsShipping

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1 Module map

Component	Purpose
Extmag_Shiplab	Shared shipping framework — accounts, addresses, boxes, methods, labels, logs.
Extmag_UpsShipping	UPS carrier driver — rates, label, return, pickup, tracking, invoice.
Extmag_ShiplabHyva	Hyva theme / Hyva Checkout integration (optional).
extmag/el-print	Desktop helper for direct label printing (external).

The UPS module registers itself as carrier `ups` against the `shiplab_carriers` config section. Enable / disable globally via `shiplab_carriers/ups/enabled` (default `1`).

2 Configuration scope

The UPS configuration page supports four independent scope axes:

- **Website / Store View** — Magento native.
- **Direction** — Domestic vs International.
- **Country** — per destination country (override per-country values for rates / paperless invoice / pickup behaviour).

Every field is annotated with `showInDefault`, `showInStore`, `showInDirection`, `showInCountry` flags. The most specific scope wins at runtime.

3 General tab

3.1 General group

Field	Description
Account	Shipper Account from <code>Extmag → Settings → Shipper Accounts</code> . Required.
Shipper Address	Main address tied to the UPS Shipper Number.
Ship From Address	Warehouse / origin address. Can differ from Shipper Address.

Field	Description
Destination Type	Auto — UPS detects residential / commercial automatically. Residential forces residential.
Shipping Description	Goods description used on the shipment. Required for non-EU↔EU, non-UPS-Letter shipments outside the EU. Macros: #order_id#, #customer_name# .

4 Packaging tab

4.1 Packaging group

Field	Description
Type	UPS packaging type. Customer Supplied Package is the default.
Additional Handling	Toggle the UPS Additional Handling Charge on every shipment.

4.2 Weight group

Field	Description
Attribute of Product Weight	Product attribute the weight is read from. Default weight .
Average Product Weight	Fallback weight for products without a value. Needed for packing.
Pack Weight	Empty package weight when boxes are not used.

4.3 Dimensions group

Field	Description
Attribute of Product Width / Length / Height	Product attributes for box dimensions.
Average Product Width / Length / Height	Fallback dimensions for products without dimensions.
Applicable Boxes	Subset of Package Boxes usable in this scope.
Exclude Product Categories	Products from these categories ship as separate packages.
Attribute of Product Pre-packed	Yes/No attribute — Yes means the product is its own package.

4.4 Volumetric Weight group

Field	Description
Enabled	Enable dimensional / volumetric weight.
Attribute of Product Volumetric Weight	Source attribute when type = <code>Weight</code> .
Type	<code>Weight</code> (read attribute) or <code>Length x Width x Height</code> (compute).
Dividing factor (metric)	Carrier-specific divisor when computing from dimensions. UPS default 5000.
Dividing factor (imperial)	UPS default 139.
Max Package Volume Weight	Hard cap, metric / imperial.

5 Returns tab

5.1 Returns group

Field	Description
Creating Return Label With Shipping Label	Generate a return label together with the outbound label.
Service	<code>UPS Print Return Label (PRL)</code> — printed return label. <code>UPS Electronic Return Label (ERL)</code> — UPS emails the return label to the customer.
Email Recipient	Recipient of the ERL email (defaults to customer).
Email Template	Custom email template for ERL.

5.2 Customer group

Field	Description
Allow Print	Customer can print the return label from their account.
Allow Create	Customer can create return labels from their account (RMA flow).

6 References tab

Field	Description
Reference No. 1 Type	UPS reference type code.
Reference No. 1	Reference value. Macros supported (order id, customer).
Bar code for Reference No. 1 on shipping labels	Render Reference No. 1 as a Code 128 bar code.
Reference No. 2 Type	Second reference type code.
Reference No. 2	Second reference value.

7 Payments tab

Field	Description
Currency	Currency of the UPS account.
Shipment Payer	Who pays for shipping — Shipper / Third Party / Receiver.
Duty And Tax Payer	Who pays duties and taxes — Shipper / Receiver / Third Party.
Declared Value Type	What goes into the declared value — products price only, or products + discounts + fees.
Insurance	Request UPS Insured Value for the shipment.
Negotiated rates	Use specially negotiated prices (requires UPS contract).
COD	Cash on Delivery. UPS attempts to collect payment at delivery.
Allowed Payment Method for COD	All / specific.
Allowed Specific Payment Method for COD	Multiselect of allowed Magento payment methods.

8 Notification tab

8.1 Notification group

Field	Description
Forward Services	UPS notification services to enable for forward (outbound) shipments.

Field	Description
Access Point Services	Notification services for Access Point shipments.
Return Services	Notification services for return shipments.
Language	Notification language code.

8.2 Emails group

Field	Description
Shipper Email	Email of the shipper on the UPS notification.
Email for Errors	Recipient of delivery-error notifications from UPS.

9 Printing tab

9.1 Printing group

Field	Description
Type	Label format — PDF or thermal.
Mass Print	Unprinted or All labels during mass print.
Character Set	Character set on the label (DOS-88, ISO-8859-1, UTF-8, ...).

9.2 Thermal Settings group

Field	Description
Height	Thermal label height (e.g. 6", 8").

10 Pickups tab

10.1 Pickup group

Field	Description
Earliest Pickup Time	Store / warehouse opening time — earliest possible pickup.

Field	Description
Latest Pickup Time	Store / warehouse closing time.
Payment Method	Pickup payment — usually <code>Pay by shipper account</code> .
Special Instructions	Free-form note to the driver.
Shipping Labels Available	<code>Yes</code> if labels are pre-printed, <code>No</code> otherwise. Default <code>Yes</code> .

10.2 Schedule group

Field	Description
Active	Enable scheduled pickup creation.
Time of Creating	Cron-like time of day pickups are requested.
Allowed Days of Week	Days pickup is requested.

If Schedule is disabled, pickups can still be created manually per label or per day from the Shipping Labels grid.

11 Tracking tab

11.1 Tracking Schedule

If enabled, the cron polls UPS for delivery status of every shipment until the parcel is either delivered or returns an error. Stops on terminal state to avoid wasted API calls.

12 Access Point tab

12.1 Access Point group

Field	Description
Type	<code>Hold for Pickup at UPS Access Point</code> — UPS holds the parcel up to 5 days; <code>UPS Access Point Delivery</code> — ship directly to the AP location.
Account	Sender's UPS account used for AP shipments.

Field	Description
Popup Top Text	Text shown at the top of the AP selection popup at checkout.
Display Selected Point	How the chosen AP location appears in the checkout summary.

12.2 Map group

Field	Description
Enabled	Show map with AP locations in the popup.
Provider	Google Maps or Bing Maps .
API Key	Provider API key.
Default Zoom	Initial zoom level when the map opens.

13 Freight tab

13.1 General group

Field	Description
Service	UPS Freight service code.
Handling Unit	Handling unit type code.
Packaging Type	Packaging type for the LTL shipment.
Class	NMFC class.
NMFC Commodity Code	8-digit NMFC code (6 Prime + 2 Sub-Prime).

13.2 References group

Reference No. 1 / 2 — same semantics as the parcel References tab.

14 International Invoice tab

14.1 International Invoice group

Field	Description
Enabled	Master switch for International Invoice rendering.
Paperless	Use UPS Paperless Invoice. Free of charge for any UPS account.
Terms of Shipment	Incoterms: CFR, CIF, CIP, CPT, DAF, DAP, DDP, DDU, DEQ, DES, EXW, FAS, FCA, FOB.
Reason for Export	SALE, GIFT, SAMPLE, RETURN, REPAIR, INTERCOMPANYDATA, OTHER.
Custom Reason	Custom value when Reason for Export = OTHER (max 20 chars).
Invoice Number	Macros: #order_id#, #shipment_id#, #invoice_id#.
Comments	Max 150 chars. Macros: customer, order, shipment, invoice, store, code, name.
Declaration Statement	Legal text used by Customs. Max 550 chars. Examples: NAFTA, EEA, "true and correct".
Sold To Address	Sold-To party. Country must match the Ship To country (Canada + satellites excepted).
Include zero-priced products	When enabled, items with zero unit price are still added to the invoice (otherwise UPS rejects them).

14.2 Product Attributes group

Field	Description
Description	Product attribute for the short product name on the invoice.
Country of Manufacture	Attribute for country of origin.
Unit of Measurement	Per-product UoM (barrels, bales, tons, ...).
Harmonized (Commodity) Code	Attribute carrying the HS code (global 97-chapter index).
ScheduleB Code	Attribute carrying the 10-digit Schedule B number (US-specific).

14.3 Taxpayer Identification group

Field	Description
VAT/Tax/EORI ID	Shipper Tax ID (EIN / VAT).
Consignee VAT/Tax/EORI ID	Consignee Tax ID — used when the merchant collects VAT in checkout and reports it on behalf of the recipient (UK / EU import simplification).

15 Automatic tab – Automatic Label Creation

Field	Description
Enabled	Turn automatic label creation on / off. Requires cron.
Create Invoice	Create the Magento invoice together with the label.
Create Shipment	Create the Magento shipment together with the label.
Allowed Order Statuses	Auto-create labels only for orders in these statuses.
Allowed Shipping Methods	Auto-create labels only for orders that picked one of these methods.
Service	UPS service used when the customer-picked method does not map directly.
Service for International Destination	Override service for international shipments.

16 Mass Actions tab – Mass Label Creation

Same fields as Automatic Label Creation, applied when the admin runs a Mass Action from the Orders / Shipments grids.

17 Manual Actions tab – Manual Label Creation

Field	Description
Create Invoice	Create the Magento invoice when an admin manually creates a label.
Create Shipment	Create the Magento shipment when an admin manually creates a label.

18 Other Options tab

Field	Description
Saturday Pickup	Request Saturday pickup. UPS is the only carrier with all-service Saturday pickup.
Saturday Delivery	Request Saturday delivery.
Send Tracking Number	Send the tracking number to the customer by email after label creation.
Carbon Neutral	Opt-in to UPS Carbon Neutral shipping (sustainability fee).
Delivery Confirmation for Shipment Level	Signature options at shipment level.
Delivery Confirmation for Package Level	Signature options at package level. Only for US50↔US50/PR or Canada↔Canada / Canada↔US50/PR.
Order Status After Created Shipping Label	Change order status once the label is created.
Movement Reference Number (MRN)	Customs registration number for export. 18 alphanumeric characters; chars 3–4 must be the Shipper country ISO code.

19 Dangerous Goods tab

Field	Description
Product Categories with Dangerous Goods	Pick categories whose products carry dangerous-goods data. Use the <i>Choose Categories</i> widget — multiple, hidden, or hierarchical categories supported.

20 Shipping Methods grid ([Extmag](#) → [Shipping Methods](#))

Per-method fields:

Field	Description
Description	Internal name.
Title of Carrier	Group label shown to the customer.
Active	Visibility toggle.
Carrier	UPS .
Show Methods	with Min Price / with Max Price / all .

Field	Description
Websites	Limit to specific websites.
Customer Groups	Limit to specific customer groups.
Apply Carrier Discount	Apply UPS negotiated rates.
Apply Cart Price Rules (Free Shipping)	Apply Magento cart price rules after the UPS rate.
UPS Access Point	Method ships to / from an Access Point.
Carrier Logo	Custom logo (PNG / GIF / JPG, ≤ 2MB).
Conditions	Magento rule conditions — restrict by cart attributes.
Additional Price → Actions	Stacked rules. Apply mode: <i>Apply all rules. Use previous price / Apply first matching.</i>
Time In Transit	Show estimated arrival date / time on the storefront.
Date and Time Restrictions	Hide the method outside selected days / times.
Other Options	Per-method override of payer / packaging / service.

21 Storefront artefacts

- Checkout → Shipping Methods list with arrival date next to each UPS service.
- UPS Access Point popup with map + list, opened from the AP-enabled method.
- Customer Account → My Orders → order page:
 - `Create Rma` link (when Returns → Customer → Allow Create = Yes).
 - `RMA` tab — created return labels with tracking number + `Print Label` action (when Returns → Customer → Allow Print = Yes).
 - `Access Point Address` block when an AP location was selected at checkout.
 - Shipping Method block — name, arrival date, tracking links.

22 Logging

`Extmag` → Shipping Logs → Shipping Logs . Every UPS API call (Rate, Time In Transit, Address Validation, Ship, Void, Pickup, Tracking, Paperless Document upload) is logged with

request, response, and a status code. Filter by carrier, action, date, order. Used as the primary diagnostic surface.

23 UPS API endpoints in use

UPS product	Used for
OAuth (Authorization)	Token acquisition for every API call.
Rating	Cart-level rate calculation.
Time In Transit	Arrival date / time on rate response.
Shipping	Label creation (forward + return).
Tracking	Status polling.
Pickup	Scheduled and on-demand pickup creation.
Address Validation	Optional address correction.
Paperless Documents	Upload commercial invoice / form documents.
Dangerous Goods	Hazardous-materials shipments.
Locator	UPS Access Point lookup.
Pre Notification	Customs pre-notification (where applicable).
Quantum View	Outbound notification subscriptions.
Freight Rating	LTL rating.
Freight Shipping	LTL label creation.
Freight Pickup	LTL pickup scheduling.
Landed Cost Quoting	Landed cost in checkout (optional).

24 Macros reference

Macro	Available in
#order_id#	Shipping Description, References, Invoice Number, Comments.
#shipment_id#	Invoice Number, Comments.
#invoice_id#	Invoice Number, Comments.
#customer_name#	Shipping Description, Comments.

Macro	Available in
#store_id#	Comments.
#store_code#	Comments.
#store_name#	Comments.

25 Field-length limits

Field	Max length
Custom Reason	20
Comments	150
Declaration Statement	550
Shipment Reference	35
Movement Reference Number (MRN)	18 (alphanumeric, chars 3–4 = country ISO)