

Installation Guide

UPS Universal Shipping for Magento 2.x — Extmag_UpsShipping

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logo

1 Requirements

- Magento 2.3.7 or newer (Open Source or Adobe Commerce).
- PHP \geq 7.4 (PHP 8.1 / 8.2 / 8.3 supported).
- MySQL 5.7+ / MariaDB 10.4+.
- Composer 2.x.
- Magento `default` cron group running every minute (used for auto-label creation, scheduled pickups, tracking updates).
- UPS Developer account with an approved application — issues Client ID, Client Secret and Shipper Number. Sign up at https://developer.ups.com/get-started?loc=en_US and add at least the following products to the application: Rating, Shipping, Tracking, Pickup, Address Validation, Time In Transit, Paperless Documents, Authorization (OAuth), Locator, Pre Notification, Dangerous Goods, Quantum View. Freight Rating / Freight Shipping / Freight Pickup are required for Freight (LTL) shipments. Landed Cost Quoting is required for landed-cost rating.
- Multi-website / multi-store / multi-direction / multi-country configuration supported.
- For label printing — optional desktop helper: [el-Print](#) (recommended) or [QZ Tray](#).
- For Hyva storefront — `extmag/shiplab-hyva` and `magewirephp/magewire` (installed separately).

2 Composer install

```
composer require extmag/upsshipping2
bin/magento module:enable Extmag_Shiplab Extmag_UpsShipping
bin/magento setup:upgrade
bin/magento setup:di:compile
bin/magento cache:flush
```

The package depends on `extmag/shiplab` — the shared shipping framework that provides shipper accounts, addresses, package boxes, shipping methods grid, label storage and the admin UI. It is pulled in automatically by Composer.

3 UPS application & API access

The module talks to UPS over the modern REST API with OAuth 2.0. To enable it register an application at the UPS Developer portal:

1. Visit https://developer.ups.com/get-started?loc=en_US and sign in with your UPS account.
2. Create a new application. Select **all** products you intend to use. At minimum: Rating, Shipping, Tracking, Pickup, Address Validation, Paperless Documents, Authorization (OAuth).
3. Wait until every requested product is in the **Approved** state.
4. Copy `Client ID` and `Client Secret` — they become the credentials for the Magento Shipper Account.
5. Note your `Shipper Number` (account number) from your UPS contract.



[Home](#) / [My Apps](#) / Extmag

Extmag

App Info/Credentials

Credentials

Issued: 07/09/2023 Key Status: approved

Client ID:

Client Secret:

Details

Created: 07/09/2023

Last Updated: 07/09/2023

Callback URL:

[Edit App](#)

[Add Products >](#)

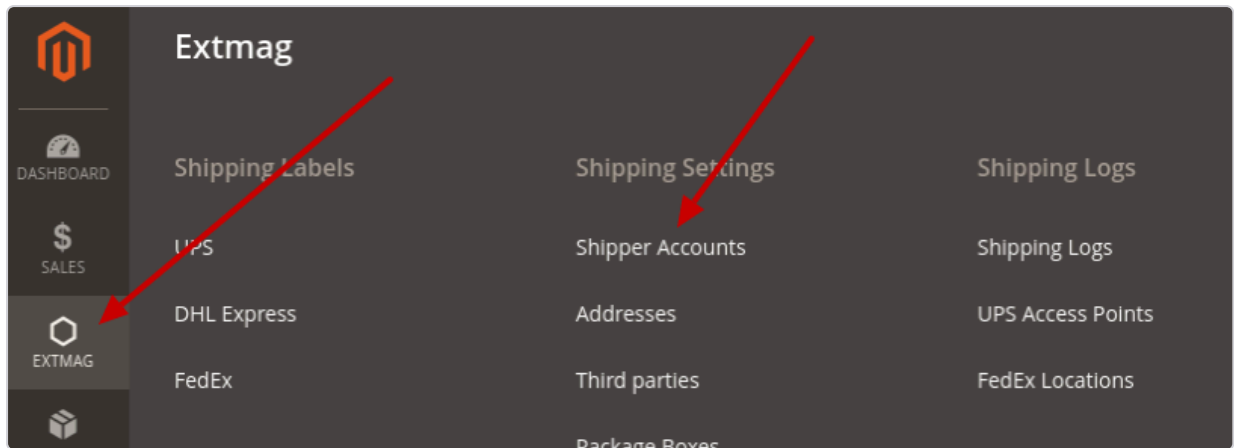
[Sort Product](#)

Product In Use	Status	
Rating	Approved	Remove
Pickup	Approved	Remove
Quantum View	Approved	Remove
Dangerous Goods	Approved	Remove
Shipping	Approved	Remove
Time In Transit	Approved	Remove
Freight Rating	Approved	Remove
Address Validation	Approved	Remove
Paperless Documents	Approved	Remove
Authorization (O Auth)	Approved	Remove
Freight Shipping	Approved	Remove
Landed Cost Quoting	Approved	Remove
Pre Notification	Approved	Remove
Freight Pickup	Approved	Remove
Tracking	Approved	Remove
Locator	Approved	Remove

UPS Developer portal — application credentials and products

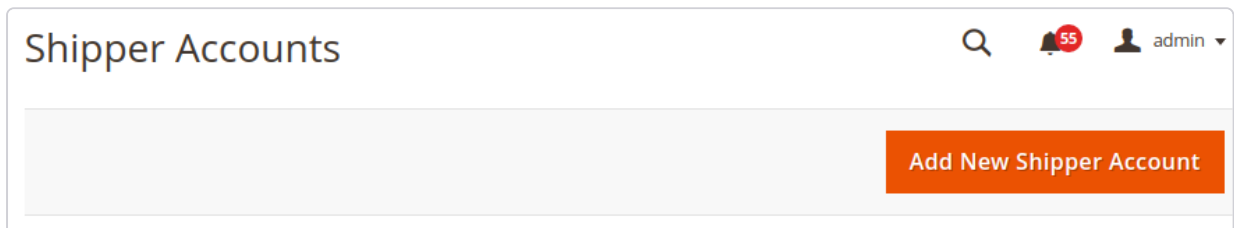
4 Shipper Account

Navigate via [Extmag](#) → [Settings](#) → [Shipper Accounts](#) :



Extmag main menu — Shipper Accounts entry

Click *Add New Shipper Account*:



Add New Shipper Account button

Fill in:

Field	Notes
Carrier	UPS
Title	Display label, used in configuration selectors.
Live Account	Yes for production, No for the UPS test sandbox.
Client ID (User ID)	OAuth Client ID from the UPS application.
Client Secret	OAuth Client Secret from the UPS application.
Shipper Number	UPS account / shipper number from your UPS contract.
Time Zone	Time zone the account operates in.

Carrier *	<input type="text" value="UPS"/>
Title *	<input type="text"/>
Live Account *	<input type="text" value="Yes"/>
Client ID (User ID) *	<input type="text"/>
Client Secret (Password) *	<input type="text"/>
Shipper Number	<input type="text"/>
Time Zone	<input type="text" value="Please select"/>

Shipper Account form

Multiple accounts (production + sandbox, or several countries) can coexist — each shipping method and each configuration scope can pick its own account.

5 Address

Extmag → Settings → Addresses → Add New Address . At a minimum create one **Shipper** address (the main address tied to the UPS Shipper Number) and one **Ship From** address (your warehouse). All address fields used by the UPS API are exposed — Company Name, Attention Name, Phone, VAT/Tax Number, EORI Number, Country, State/Province, Postal Code, City, Urbanization, Address Line 1–3, Floor, Room, Pickup Point, Destination Type. The same address can be reused as a Sold-To address for International Invoice.

Title *

Company Name *

Attention Name *

Phone *

VAT/Tax Number

If this field is left blank, the tax number will be used, which is the default for the Magento store.

EORI Number

Country *

State/Province

Postal Code

City *

Urbanization

Address Line 1 *

Address Line 2

Address Line 3

Floor

Room	<input type="text"/>
Room	<input type="text"/>
Pickup Point	<input type="text"/>
Destination Type *	<input type="text" value="Auto"/> ▼

Address form

6 Package Boxes (optional)

Extmag → Settings → Package Boxes → Add New Box . Define your physical boxes once and reuse them per carrier / store / destination. Required fields: unit of measurement (weight + dimensions), max weight, empty weight, inner and outer dimensions, quantity available.

The packing algorithm distributes order items across the cheapest fitting set of boxes using the per-box volume / weight limits.

Title *	<input type="text"/>
Unit of measurement of weight *	<input type="text" value="Kilograms"/> ▼
Unit of measurement of dimensions *	<input type="text" value="Centimeters"/> ▼
Max weight *	<input type="text"/>
Empty weight *	<input type="text"/>
Width *	<input type="text"/>
Length *	<input type="text"/>
Height *	<input type="text"/>
Outer width *	<input type="text"/>
Outer length *	<input type="text"/>
Outer height *	<input type="text"/>
Qty *	<input type="text"/>

Package Box form

7 Shipping Methods

Extmag → Shipping Methods → Shipping Methods → Add New Shipping Method . A shipping method is what the customer sees at checkout. One method can map to one or several UPS service codes. Each method supports:

- Active flag, Carrier (UPS), Show Methods mode (with min / max / all prices), Websites and Customer Groups scope.
- Apply Carrier Discount (negotiated rates).
- Apply Cart Price Rules (Free Shipping) — applies after the UPS rate.
- UPS Access Point toggle.
- Carrier Logo upload.
- Conditions block (Magento rule conditions) — restrict the method to matching carts.
- Additional Price block — flat / formula uplift on top of the UPS rate.
- Time In Transit block — show delivery date / time per service.
- Date and Time Restrictions block — hide the method outside business hours.
- Other Options — payer override, packaging override, etc.

Description *

Title of Carrier

Active * No

Carrier * UPS ▼

Show Methods * with Min Price ▼

Websites * All ▼

Customer Groups * All ▼

Apply Carrier Discount No

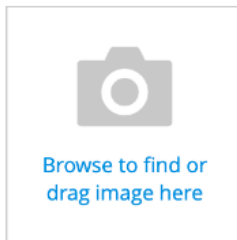
Apply Cart Price Rules (Free Shipping) No

Cart Price Rules apply after calculating the price via the Extmag module

UPS Access Point No

Carrier Logo

Maximum file size: 2 MB. Allowed file types: PNG, GIF, JPG.



Conditions

Apply the rule only if the following conditions are met (leave blank for all items).

If **ALL** of these conditions are **TRUE** :



Additional Price

Additional Price

Additional Price Actions

Create New Rule

Additional Price Actions

Rule *

Position

Add Rule

Apply

Apply all rules. Use previous price



Time In Transit

Date and Time Restrictions

Other Options

Shipping Method form

8 Module configuration

Stores → Configuration → Extmag → UPS Configuration . The configuration page is organised in vertical tabs — General, Packaging, Returns, References, Payments, Notification, Printing, Pickups, Tracking, Access Point, Freight, International Invoice, Automatic, Mass Actions, Manual Actions, Other Options, Dangerous Goods. The full tab-by-tab reference is in the **Reference Manual**.

{Carrier Name} ^
General

- General
- Packaging
- Returns
- References
- Payments
- Notification
- Printing
- Pickups
- Tracking

Account [country] ?

Add Shipper Account

Shipper Address [country] ?

Add Address

Ship From Address [country] ?

Add Address

Destination Type [country]

If Auto then UPS defines destination type by customer address

Shipping Description [country]

This is just package

Can use macro paste: #order_id#, #customer_name#

UPS Configuration — General tab

9 Printer integration (optional)

To print thermal / PDF labels directly from the admin install one of the desktop helpers:

- **el-Print** — <https://extmag.com/el-print.html> (recommended).
- **QZ Tray** — <https://qz.io>.

Then wire it under `Stores → Configuration → Extmag → Printers`:

- **Application** — `el-Print` or `QZ Tray`.
- **Type** — `Local PC` (WebSocket from the browser) or `Network` (server push from the Magento backend).
- **Port** — `9109` for el-Print, default QZ port for QZ Tray.
- **Auto Print** — `Yes` prints automatically right after the label is created, `No` requires a manual click.
- **Printer Name** — for QZ Tray, the printer name as seen by the OS.

A separate printer per document type can be configured under the same tab.

The screenshot shows the 'Configuration' page for a printer. On the left, a sidebar menu includes 'GENERAL', 'CATALOG', 'SECURITY', 'CUSTOMERS', 'SALES', and 'EXTMAG'. Below this is a 'Printers' section with 'AdminWizard' and 'Logs Manager Pro'. The main content area is titled 'Printer' and contains a form with the following fields: 'Application' (dropdown menu set to 'el-Print'), 'Type' (dropdown menu set to 'Local PC'), 'Port' (text input set to '9109'), and 'Auto Print' (dropdown menu set to 'No'). A 'Save Config' button is located in the top right corner. Red arrows point from the 'Configuration' header to the 'Printer' title, from the 'Printer' title to the form, and from the 'EXTMAG' menu item to the 'Printer' title. A green box highlights the form fields.

Printers — el-Print configuration

The screenshot shows the 'Configuration' page for a printer. On the left, a sidebar menu includes 'GENERAL', 'CATALOG', 'SECURITY', 'CUSTOMERS', 'SALES', and 'EXTMAG'. Below this is a 'Printers' section with 'AdminWizard' and 'Logs Manager Pro'. The main content area is titled 'Printer' and contains a form with the following fields: 'Application' (dropdown menu set to 'QZ Tray') and 'Printer Name' (text input set to 'test'). A 'Save Config' button is located in the top right corner. Red arrows point from the 'Configuration' header to the 'Printer' title, from the 'Printer' title to the form, and from the 'EXTMAG' menu item to the 'Printer' title. A green box highlights the form fields.

Printers — QZ Tray configuration

10 Hyva Theme / Hyva Checkout (optional)

For storefronts running Hyva install the integration package:

```
composer require extmag/shiplab-hyva
composer require magewirephp/magewire
bin/magento setup:upgrade
bin/magento setup:di:compile
bin/magento cache:flush
```

The integration ships three template overrides under `vendor/extmag/shiplab-hyva-magento2/view/frontend/templates/` :

- `access-point/ap.phtml`
- `access-point/place-order.phtml`
- `checkout/shipping/method-list.phtml`

If your theme already overrides these files, merge changes manually.

11 Email templates

The module overrides the **New Order** and **New Shipment** templates to add the Access Point address block. If you already customised these templates, add the snippet below before saving:

```
{{depend order_data.is_not_virtual}}
  {{if formattedAccessPointAddress}}
  <td class="address-details">
    <h3>{{trans "Access Point Info"}}</h3>
    <p>{{var formattedAccessPointAddress|raw}}</p>
  </td>
  {{/if}}
{{/depend}}
```

12 Verification

```
bin/magento module:status Extmag_UpsShipping
```

Expect *Module is enabled*. Then:

- Visit `Extmag` → `Settings` → `Shipper Accounts` — the new UPS account renders.
- Visit `Extmag` → `Shipping Methods` → `Shipping Methods` — the methods grid renders even when empty.

- Place a test cart with a UPS-supported destination — the rates appear at checkout with the configured methods.
- `Extmag → Shipping Logs → Shipping Logs` records every UPS API call — useful for diagnosing rating / shipping issues.

13 Upgrade flow

```
composer update extmag/upshipping2 extmag/shiplab
bin/magento setup:upgrade
bin/magento setup:di:compile
bin/magento cache:flush
```

Schema migrations are declarative — no data loss on minor / patch versions.

14 Disabling without uninstalling

- `shiplab_carriers/ups/enabled = 0` — turns off the UPS carrier without removing any settings.
- Disable individual shipping methods via the Shipping Methods grid.
- Disable the module:

```
bin/magento module:disable Extmag_UpsShipping
```

Saved Shipper Accounts, Addresses, Package Boxes and Shipping Methods stay in place — they are owned by `Extmag_Shiplab`.

15 Uninstall

```
bin/magento module:disable Extmag_UpsShipping
composer remove extmag/upshipping2
```

To also remove the shared shipping framework:

```
bin/magento module:disable Extmag_Shiplab
composer remove extmag/shiplab
```

The schema is **not** dropped automatically. Back up the data before running `DROP TABLE` on any of the `extmag_shiplab_*` tables.

16 Troubleshooting install-time issues

16.1 `Class "" does not exist` on Settings grids

Run `setup:di:compile` again — admin grid collections resolve a connection through DI and need a fresh compile after upgrades.

16.2 OAuth 401 / 403 from UPS

- Confirm the application is **Approved** for every product you use.
- Confirm `Live Account = Yes` matches a production OAuth client (sandbox credentials only authenticate against the sandbox endpoint).
- Confirm system clock skew is under 5 minutes — UPS rejects tokens minted on out-of-sync clocks.

16.3 Rates do not appear at checkout

- Check `Extmag → Shipping Logs` — every Rate request is logged with the raw UPS response.
- Confirm the cart total weight / dimensions fit at least one Package Box, or that an Average Product Weight is configured (otherwise UPS rejects the rate request).
- Confirm at least one Shipping Method has `Active = Yes` and a matching Websites / Customer Group scope.

16.4 Cron jobs never fire

```
bin/magento cron:status  
crontab -l | grep magento
```

Auto-label creation, scheduled pickups and tracking refresh are wired through Magento cron jobs. The OS-level entry must be in place and the default cron group must be enabled.