

Reference Manual

DHL Express Comprehensive Shipping XML for Magento 2.x — Extmag_DhlShipping

2026-05-22

1 System configuration reference

1.1 General Tab

1.2 Packaging Tab

1.2.1 Packaging

1.2.2 Weight

1.2.3 Dimensions

1.2.4 Volumetric Weight

1.3 Returns Tab

1.4 References Tab

1.5 Payments Tab

1.6 Notification Tab

1.7 Printing Tab

1.8 Pickups Tab

1.9 Tracking Tab

1.10 International Invoice Tab

1.10.1 International Invoice

1.10.2 Product Attributes

1.10.3 Taxpayer Identification

1.11 Automatic Tab

1.12 Mass Actions Tab

1.13 Manual Actions Tab

1.14 Other Options Tab

1.14.1 Options

1.14.2 Dangerous Goods

2 Default values

3 Macro tokens

4 Email templates

5 Cron jobs

6 Multi-website / multi-store scoping

7 DHL XML-PI integration

8 Known limitations

1 System configuration reference

Extmag → Settings → DHL Express Configuration . All fields are scoped per website / store / direction / country — adjust the scope selector in the top-left of the admin form before saving.

Each section below maps to a tab in the configuration form.

1.1 General Tab

Field	Source / type	Notes
Account	Extmag\DhlShipping\Model\Source\Accounts	Select an existing DHL Shipper Account. Required. Use <i>Add Shipper Account</i> link to create one.
Shipper Address	Extmag\Shiplab\Model\Source\Addresses	Main address tied to the DHL Shipping Number.
Ship From Address	Extmag\Shiplab\Model\Source\Addresses	Warehouse / store address — the physical origin of the shipment.
Destination Type	Extmag\Shiplab\Model\Source\DestinationTypes	Auto (DHL infers) or Residential (force residential).
Shipping Description	textarea	Macros: #order_id# , #customer_name# .

1.2 Packaging Tab

1.2.1 Packaging

Field	Type	Notes
Type	select	DHL packaging code. <i>Your Packaging</i> recommended unless using DHL-supplied boxes.
Reference	text	Macros: #order_id# , #customer_name# , #store_id# , #store_code# , #store_name# .
Bar code for Reference	text	Customer Barcode rendered on the label. Optional.

1.2.2 Weight

Field	Type	Notes
Attribute of Product Weight	product attr	Default weight . Source attribute used for per-product weight.
Average Product Weight	decimal	Fallback weight when the attribute resolves to 0 / null. Required for box packing.
Pack Weight	decimal	Empty-package weight, added per package when not using preset boxes.

1.2.3 Dimensions

Field	Type	Notes
Attribute of Product Width	product attr	Source attribute for width.
Attribute of Product Length	product attr	Source attribute for length.
Attribute of Product Height	product attr	Source attribute for height.
Average Product Width / Length / Height	decimal	Fallbacks when dimension attribute is empty. Required for box packing of mixed catalogs.
Applicable Boxes	multiselect	Boxes used to pack this carrier / store. <i>Add Package Box</i> link creates new ones.
Exclude Product Categories	multiselect	Items in these categories ship one per package (no box packing).
Attribute of Product Pre-packed	product attr	Yes/No attribute. <code>Yes</code> ⇒ that product always ships in its own package.

1.2.4 Volumetric Weight

Field	Type	Notes
Enabled	Yes/No	Master switch for volumetric weight calculation.
Attribute of Product Volumetric Weight	product attr	Source when <code>Type = Weight</code> .
Type	select	<code>Weight</code> (attribute holds kg/lb) or <code>Length x Width x Height</code> (compute from dimensions).
Dividing factor — metric (kg, cm)	int	<code>1</code> if attribute already holds kg. Otherwise DHL standard is <code>5000</code> .
Dividing factor — imperial (lb, inch)	int	<code>1</code> if attribute already holds lb. Otherwise standard is <code>139</code> .
Max Package Volume Weight — metric (kg, cm)	decimal	Upper cap on volumetric weight per package.
Max Package Volume Weight — imperial (lb, inch)	decimal	Imperial counterpart.

1.3 Returns Tab

Field	Type	Notes
Creating Return Label With Shipping Label	Yes/No	Generates a return label alongside the outbound label in one pass.
Allow Print (customer)	Yes/No	Customer can print the return label from their account.
Allow Create (customer)	Yes/No	Customer can create a return label from their account.

Email template `dhl_refund_general_email_template` (file `return-label.html`) is dispatched on automatic return label generation.

1.4 References Tab

Field	Type	Notes
Reference ID	text	Mandatory DHL ReferenceID. Macros: #order_id#, #customer_name#, #store_id#, #store_code#, #store_name#.

1.5 Payments Tab

Field	Type / source	Notes
Currency	select	Currency of your DHL account. Used in the XML rate / label request.
Shipment Payer	select	Sender or third-party DHL account number.
Duty And Tax Payer	select	Who pays duties and taxes — Sender, Receiver, or third party.
Is Dutiable?	Yes/No	Flags the shipment as dutiable in the XML.
Declared Value Type	select	Subtotal (products only) or Grand total (with discounts, fees).
Insurance	decimal / formula	Insurance amount included in the request.
COD	select	Payment method matching DHL's COD requirement.

1.6 Notification Tab

Field	Type	Notes
Message	text	Message DHL displays / emails on delivery to the receiver.

1.7 Printing Tab

Field	Type / source	Notes
Type	select	PDF or Thermal.
Template	select	Label dimension preset (height x width).
Label Resolution dpi	int (200–300)	Default 203. Higher = sharper thermal print.
Archive Document	Yes/No	Request DHL Archive document image alongside the label.
Mass Print	select	Unprinted only or All for the mass print mass action.

1.8 Pickups Tab

Field	Type	Notes
Earliest Pickup Time	time	When you're ready to release parcels to the courier.
Latest Pickup Time	time	Latest pickup acceptable. Bounded by your store closing time.
Special Instructions	text	Free-text instructions for the driver.

Field	Type	Notes
Schedule (group)	mixed	Defines when automated pickups are created. Disable to fall back to manual pickups.

1.9 Tracking Tab

Field	Type	Notes
Tracking Schedule	Yes/No + schedule	When enabled, the module polls tracking info per shipment on the configured schedule. Stops on terminal state or error.

1.10 International Invoice Tab

1.10.1 International Invoice

Field	Type / source	Notes
Type	select	Commercial Invoice or Proforma Invoice .
Terms of Shipment	select (Incoterms)	CFR, CIF, CIP, CPT, DAF, DAP, DAT, DDP, DDU, DEQ, DES, DVU, EXW, FAS, FCA, FOB .
Reason for Export	text (≤ 30 chars)	Reason DHL prints on the invoice.
Invoice Number	text	Macros: #order_id#, #shipment_id#, #invoice_id# .
Comments	text (≤ 150 chars)	Macros: #customer_name#, #order_id#, #shipment_id#, #invoice_id#, #store_id#, #store_code#, #store_name# .
Additional Declaration Text	text (≤ 300 chars)	Optional appended declaration block.
Sold To Address	Extmag\ShipLab\Model\Source\Addresses	Country must match Ship To party country code.

1.10.2 Product Attributes

Field	Source	Notes
Description	product attribute	Short product name printed on the invoice.
Country of Manufacture	product attribute	Country of origin per item.
Unit of Measurement	select	barrels, bales, tons, etc. Maps to DHL Unit codes.
Harmonized (Commodity) Code	product attribute	HS code for international classification.
ScheduleB Code	product attribute	US 10-digit export classification.

1.10.3 Taxpayer Identification

Field	Type	Notes
VAT/Tax/EORI ID	text	Shipper Tax / VAT / EORI / EIN identifier.
Consignee VAT/Tax/EORI ID	text	Consignee identifier. Use when merchant pre-collects VAT and reports it cross-border.

1.11 Automatic Tab

Automatic Label Creation — fires from cron on matching orders.

Field	Type / source	Notes
Enabled	Yes/No	Master switch. Cron must be running.
Create Invoice	Yes/No	Invoice generated alongside the label.
Create Shipment	Yes/No	Shipment generated alongside the label.
Allowed Order Statuses	multiselect (order status)	Cron picks orders only in these statuses.
Allowed Shipping Methods	multiselect (shipping method)	Cron picks orders shipped via these methods.
Service	select (DHL service code)	Domestic service applied.
Service for International Destination	select (DHL service code)	International service applied.

1.12 Mass Actions Tab

Mass Label Creation — fires from the admin orders mass action.

Field	Type / source	Notes
Create Invoice	Yes/No	Invoice generated alongside the label.
Create Shipment	Yes/No	Shipment generated alongside the label.
Allowed Order Statuses	multiselect	Mass action skips orders not in these statuses.
Allowed Shipping Methods	multiselect	Mass action skips orders not on these methods.
Service	select	Domestic service.
Service for International Destination	select	International service.

1.13 Manual Actions Tab

Field	Type	Notes
Create Invoice	Yes/No	Invoice generated alongside the label.

Field	Type	Notes
Create Shipment	Yes/No	Shipment generated alongside the label.

1.14 Other Options Tab

1.14.1 Options

Field	Type / source	Notes
Saturday Pickup	Yes/No	Schedule weekend pickup at origin.
Saturday Delivery	Yes/No	Not supported in the US. Available in EU and parts of the rest of the world.
Door To	select	Door to Door, Door to Airport, Airport to Airport, Door to Door non-Compliant.
GoGreen Carbon	Yes/No	Adds DHL GoGreen carbon offset to the shipment.
Delivery Confirmation	select	Signature / adult signature on delivery.
Order Status After Created Shipping Label	select (order status)	Updates the order status after the label is generated.

1.14.2 Dangerous Goods

Field	Type	Notes
Product Categories with Dangerous Goods	category chooser (Extmag\Shiplab\Block\Adminhtml\System\Config\Form\Field\CategoryChooser)	Categories whose products carry dangerous goods data. Items there require DG fields filled.

2 Default values

Defaults shipped via Extmag/DhlShipping/etc/config.xml :

Path	Value	Meaning
shiplab_carriers/dhl/enabled	1	Carrier enabled out of the box once credentials are set.

Other defaults are inherited from Extmag_Shiplab and from per-field default declarations in the system.xml include files (Extmag/DhlShipping/etc/adminhtml/system/*.xml).

3 Macro tokens

Tokens resolved at request / label build time. Available across the configuration where listed in the per-field column above.

Token	Resolves to
<code>#order_id#</code>	Increment ID of the order.
<code>#shipment_id#</code>	Increment ID of the shipment.
<code>#invoice_id#</code>	Increment ID of the invoice.
<code>#customer_name#</code>	Order customer full name.
<code>#store_id#</code>	Numeric store view ID.
<code>#store_code#</code>	Store view code.
<code>#store_name#</code>	Store view name.

Tokens not applicable to a given context resolve to an empty string — they do not raise errors.

4 Email templates

ID	Default file	Area	Trigger
<code>dhl_refund_general_email_template</code>	<code>return-label.html</code>	frontend	Return label dispatched to customer.

Override by adding a custom template under `Marketing > Email Templates` and selecting it in the corresponding configuration field.

5 Cron jobs

The module reuses the framework cron jobs registered by `Extmag_Shiplab`. There is no `crontab.xml` shipped by `Extmag_DhlShipping` directly — all periodic work runs through the parent module's runners:

- Automatic Label Creation runner — fires every minute against orders matching the *Automatic* tab.
- Tracking poller — fires on the schedule defined under the *Tracking* tab.
- Pickup scheduler — fires on the schedule defined under the *Pickups* tab.

All jobs live in the Magento `default` cron group.

6 Multi-website / multi-store scoping

Every field in the configuration tree has `showInDefault="1"`, `showInStore="1"`, `showInDirection="1"`, `showInCountry="1"`. Save scope selection at the top of the form decides whether the value is stored globally, per website, per store view, per shipping direction, or per destination country.

Override precedence (most specific wins): country → direction → store → website → default.

7 DHL XML-PI integration

Detail	Value
Endpoint	DHL Express XML-PI (<code>xmlpi-ea.dhl.com</code>)
Transport	HTTPS POST
Serializer	Magento <code>Magento\Framework\Serialize\Serializer\Json</code>
XML parser	PHP <code>SimpleXMLElement</code> with explicit error capture
Authentication	Site ID + Password from the selected Shipper Account

Rates, labels, tracking, and pickup requests all flow through the XML-PI endpoint. The serializer was migrated from raw `json_encode` / `json_decode` to Magento's `Json` serializer with XML parse error handling — DHL XML faults now surface as structured exceptions in `var/log/system.log`.

8 Known limitations

- **DHL Express XML-PI is the only transport** supported. The MyDHL API (REST) is not used.
- **Tracking** updates only fire when the cron schedule is enabled. The module does not subscribe to DHL webhooks.
- **Volumetric weight** uses divisor-only mode. Custom DIM weight formulas that go beyond `volume / divisor` are not supported.
- **Dangerous goods** packaging is identified by category only, not by per-product attribute. Mix DG and non-DG items in the same order and they are split into separate packages.
- **Hyva integration** ships templates only — the JS / styling is inherited from the Hyva theme.