

Reference Manual

TForce Universal Shipping for Magento 2.x — Extmag_TForceShipping

2026-05-22

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1 Module composition

Component	Purpose
Extmag_TForceShipping	Carrier integration with TForce Freight (Rate / Ship / Track / Pickup).
Extmag_Shiplab (dependency)	Multi-carrier framework — accounts, addresses, package boxes, queues.
extmag/shiplab-hyva (optional)	Hyva theme + Hyva Checkout templates.
magewirephp/magewire	Required transitively when shiplab-hyva is installed.

Extmag_TForceShipping declares a sequence dependency on Extmag_Shiplab — Shiplab boots first, the TForce carrier registers itself into the framework.

2 System configuration reference

Stores → Configuration → Shipping Methods → TForce Freight — base carrier switch (rare path, hidden in store scope).

Extmag → Settings → TForce Configuration — the day-to-day tabbed configuration UI. The tab labels below match the admin menu exactly.

2.1 Base carrier (shiplab_carriers/tforce/...)

Field	Default	Notes
enabled	No	Master switch for every TForce method on the storefront.
token_endpoint	https://login.microsoftonline.com/ca4f5969-.../oauth2/v2.0/token	Microsoft Entra ID OAuth2 endpoint. Rotate only on TForce request.
scopes	https://tffproduction.onmicrosoft.com/04cc9749-.../.default	Default app scope for the TForce production tenant.

2.2 General tab (tforce_general/general/...)

Field	Default	Source model	Notes
account	empty	Extmag\TForceShipping\Model\Source\Accounts	Required. Pick a Shipper Account from Extmag → Shipper Accounts .
shipper_address	empty	Extmag\Shiplab\Model\Source\Addresses	Billing / shipper address tied to the

Field	Default	Source model	Notes
			TForce Shipper Number.
ship_from_address	empty	Extmag\Shiplab\Model\Source\Addresses	Origin warehouse / store address.
destination_type	empty	Extmag\TForceShipping\Model\Source\DestinationTypes	Auto, Commercial or Residential.
priority_service_code	empty	Extmag\TForceShipping\Model\Source\ServiceCodesByOrigin	Preferred TForce method used for <i>Priority Shipping Method</i> .
shipping_description	empty	textarea (max 300)	Supports macros: #order_id#, #customer_name#.

2.3 Packaging tab (tforce_packaging/...)

general group:

Field	Default	Source model	Notes
type	PLT	Extmag\TForceShipping\Model\Source\PackagingCommodityCodes	Required. Commodity type of the freight.
handling_type	PLT	Extmag\TForceShipping\Model\Source\PackagingHandlingCodes	Required. Handling unit (PLT = pallet, BAG, BOX, ...).
freight_class	50	Extmag\TForceShipping\Model\Source\FreightClass	Required. NMFC class (50 / 55 / 60 / ... / 500).
nmfc_prime	empty	text (6 digits)	NMFC prime code.
nmfc_sub	empty	text (2 digits)	NMFC sub code.
handling_instruction	empty	textarea (max 300)	Supports #order_id#, #customer_name#.

weight and dimension groups come from Extmag_Shiplab (shared across all carriers):

Field	Source	Notes
Attribute of Product Weight	EAV attribute selector	Default weight.
Average Product Weight	text	Fallback when product has no weight set.
Pack Weight	text	Weight of empty packaging when box-packing is disabled.
Attribute of Product Width	EAV attribute selector	Same pattern for Length / Height.
Average Product Width	text	Fallback. Same pattern for Length / Height.
Applicable Boxes	multiselect (Package Boxes grid)	Boxes available for this scope. Add new via <i>Extmag</i> → <i>Package Boxes</i> .
Exclude Product Categories	multiselect (categories)	Products in these categories are packaged separately.
Attribute of Product Pre-packed	EAV attribute selector (Yes/No)	Yes value means the product ships in its own package.

2.4 References tab (tforce_reference/reference_number/...)

Up to two reference slots, each a (type, value) pair. Values support macros: #order_id#, #customer_name#, #store_id#, #store_code#, #store_name#.

Field	Source model	Notes
type_1	Extmag\TForceShipping\Model\Source\ReferenceNumberCodes	TForce reference code (PO, Bill of Lading, ...).
value_1	text (max 35)	Letters / digits only.
type_2	ReferenceNumberCodes	Optional second slot.
value_2	text (max 35)	

2.5 Payments tab (tforce_payment/general/...)

Field	Default	Source model	Notes
currency	USD	Magento\Config\Model\Config\Source\Locale\Currency\All	Must match the currency on the TForce account.

2.6 Notification tab (tforce_notification/...)

general group:

Field	Source model	Notes
service_code	Extmag\TForceShipping\Model\Source\NotificationEventTypes (multi)	TForce-side notification events to subscribe to.
number_type	Extmag\TForceShipping\Model\Source\NotificationNumberTypes	Contact number type used by TForce (mobile / landline / ...).

email group:

Field	Notes
shipper	Shipper email. Validated as validate_email.
error	Email that receives the <i>delivery error</i> notifications. Validated.

2.7 Printing tab (tforce_printing/general/...)

Field	Default	Source model	Notes
label_type	01 (PDF)	Extmag\TForceShipping\Model\Source\PrintType	PP = stickers per page, MS = max start position. Thermal types also available.
starting_position	1	text (1 – 999)	Useful for partially used label sheets.
number_of_stickers	1	text (1 – 999)	Stickers per print job.
mass	unprinted	Extmag\Shiplab\Model\Source\MassPrint	Bulk print: only unprinted, or all.

2.8 Pickups tab (tforce_pickup/...)

general group:

Field	Default	Type	Notes
ready_time	00:01:01	time	Earliest pickup time (store/warehouse opens). Cron must be running.
close_time	23:01:01	time	Latest pickup time (store/warehouse closes).
special_instructions	empty	textarea (max 200)	Free text shown to the driver.

schedule group:

Field	Default	Source	Notes
active	disabled	Extmag\Shiplab\Model\Source\PickupSchedule	Drives the per-label or end-of-day cron pickup creation.
time	n/a	Extmag\Shiplab\Model\Source\Hours	Visible only when active = by_schedule .
days_of_week	empty	Extmag\Shiplab\Model\Source\DaysOfWeek	Visible only when active = by_schedule . Multiselect.

2.9 Tracking tab (tforce_track/...)

Shared Extmag_Shiplab track configuration.

Field	Default	Notes
link_type	magento	magento opens tracking in a popup. tforce redirects to the TForce website.
Schedule	disabled	When active, the cron pulls tracking updates per shipment until delivered or error.

2.10 Automatic tab (tforce_automatic/general/...)

Extmag_Shiplab::system/base/automatic.xml .

Field	Default	Source	Notes
active	No	Yes/No	Enables cron-driven label creation. Cron must be running.
create_invoice	No	Yes/No	Invoice the order after a successful label.
create_shipment	No	Yes/No	Create the Magento shipment after a successful label.
order_statuses	empty	Extmag\Shiplab\Model\Source\OrderStatuses (multi)	Restrict to these order statuses.
shipping_method	empty	Extmag\Shiplab\Model\Source>AllShippingMethods	Restrict to these checkout shipping methods.
service	empty	Extmag\TForceShipping\Model\Source\ServiceCodesByOrigin	TForce service used for domestic shipments.
service_international	empty	Extmag\TForceShipping\Model\Source\ServiceCodesByOrigin	TForce service used for international shipments.

2.11 Mass Actions tab (tforce_mass/general/...)

Extmag_Shiplab::system/base/mass.xml . Same fields as *Automatic* minus the active switch — Mass actions are triggered from the Orders grid on demand.

Defaults: create_invoice = 0 , create_shipment = 0 , order_statuses = all , shipping_method = all .

2.12 Manual Actions tab (tforce_manual/general/...)

Extmag_Shiplab::system/base/manual.xml .

Field	Default	Notes
create_invoice	No	Invoice the order after a manual label.

Field	Default	Notes
create_shipment	No	Create the Magento shipment after a manual label.

2.13 Other Options tab (tforce_other/general/...)

Field	Default	Source model	Notes
dangerous_goods	No	Yes/No	Marks the shipment as hazardous in the Ship request.
send_tracking_number	Yes	Yes/No	Includes the tracking number in the Magento order confirmation.
set_order_status	empty	Extmag\Shiplab\Model\Source\StatusesOfOrder	Order status transition after the label is created.
service_options_pickup	empty	Extmag\TForceShipping\Model\Source\ServiceOptionsPickup (multi)	Optional pickup-side service add-ons.
service_options_delivery	empty	Extmag\TForceShipping\Model\Source\ServiceOptionsDelivery (multi)	Optional delivery-side service add-ons (Saturday, liftgate, ...).

3 Service codes and shipping methods

Extmag\TForceShipping\Model\Source\ServiceCodesByOrigin returns a different code list per origin country, because TForce exposes different domestic vs cross-border methods. Selecting a code on General → Priority Shipping Method pins the storefront default; the *Automatic / Mass / Manual* tabs each carry their own service selectors for domestic and international destinations.

Latest addition: **TForce Freight Accelerated Guaranteed** — added in the recent release on top of the existing TForce Freight LTL set.

4 OAuth2 token caching

token_endpoint and scopes produce an access token that is cached for the lifetime declared by Microsoft Entra (typically 1 hour). The cache key is keyed on the Shipper Account ID, so multiple accounts coexist on the same Magento instance without leaking tokens. On 401 the carrier forces a refresh on the next request.

5 Cron jobs

Group	Job	Purpose
default	Shiplab automatic-label runner	Picks up qualifying orders and runs the carrier Ship call.
default	Shiplab tracking poller	Refreshes tracking history for shipments with active polling.

Group	Job	Purpose
default	Shiplab pickup runner	Creates pickup requests per the Pickup schedule.

The jobs live under `Extmag_Shiplab` — `Extmag_TForceShipping` does not register its own cron group. They are gated by their respective master switches: tracking schedule, pickup schedule, *Automatic / active*.

6 Carrier plumbing

Helper	Purpose
<code>Extmag\TForceShipping\Helper\Request\Rate</code>	Builds the Rate request envelope.
<code>Extmag\TForceShipping\Helper\Request\Ship</code>	Builds the Ship request envelope.
<code>Extmag\TForceShipping\Helper\Response\Rate</code>	Parses Rate responses (including the recent service array fix).
<code>Extmag\TForceShipping\Helper\Response\Ship</code>	Parses Ship responses and persists the label.
<code>Extmag\TForceShipping\Helper\Response\Track</code>	Parses Track responses.
<code>Extmag\TForceShipping\Model\Authorization</code>	OAuth2 client. Acquires + caches the access token.

7 Known limitations

- **Single Shipper Account per carrier configuration.** Multi-account routing must be achieved via website / store scope.
- **No GraphQL coverage** for label creation. REST endpoints inherited from `Extmag_Shiplab` are the only programmatic surface.
- **No partial-label retry** mid-burst. The Ship call is atomic per shipment — a failed package fails the whole shipment, the operator re-runs the label.
- **Hyva Checkout** integration ships templates only — the rate / ship / track logic stays in the core PHP path. Custom Hyva storefronts must merge `method-list.phtml` manually.