

Shopify Connector

imc Learning Suite

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1 Introduction

Shopify (www.shopify.com) is a popular and powerful eCommerce and shopping cart tool which provides extensive functional possibilities, configurable workflows, analytics and options to boost sales by providing the possibilities for things such as discount codes and gift cards.

Shopify is available as a Software-as-a-Service (SaaS) model with various subscription plans. It is a pre-requisite for imc to setup the connection that there is a valid subscription to Shopify running and that the API key details and Call Back URLs from/to the Customer's Shopify instance is provided to imc. Any licence fees related to the Shopify subscription, or configuration of Shopify itself are not covered by imc and need to be organised directly by the Customer.

The imc Shopify Connector provides an interface between the imc Learning Suite and Shopify to allow learners to add courses and learning paths to their basket via the LMS catalogue and check-out via Shopify.

The imc Shopify Connector as part of the imc Learning Suite:

- Intermediates the communication between the imc LMS and Shopify, handling the creation and update of the product catalogue automatically in Shopify with courses from the LMS catalogue
- Allows learners to add courses and learning paths to the shopping cart, based on the price applicable to the learner (preferential prices based on group membership can be defined via the LMS)
- Performs enrolment checks such as prerequisite fulfilment and presents learners with an enrolment form where additional data for the enrolment can be collected
- Allows learners to remove items from their shopping cart
- Allows learners to proceed to checkout with the items in their cart
- Processes the enrolments based on the order payment notifications received from Shopify.

In collaboration with Shopify which:

- Presents the checkout page, and processes the payment
- Informs the imc Learning Suite once a payment has been confirmed successfully
- Set up, and let the learner use discount codes at checkout
- Access sales analytics and reporting
- View a list of all orders
- Configure payment options – Shopify supports 100's of payment providers – see <https://www.shopify.com/payment-gateways>
- Customize the checkout page

Note: imc is not a Shopify expert, we recommend the Customer to consult a Shopify expert from their exchange if they require assistance with configuring Shopify itself further than the technical interface described here in this document. A lot is configurable on the Shopify side (e.g., voucher codes, tax rules, invoice templates, configuration of many different payment processors etc) that can add a lot of value to the Customers process. A lot of documentation and support exists in the online resources and forums of Shopify.

Further this document will describe the configurations and settings needed to establish the imc Shopify Connector successfully.

2 License for the Shopify connector



The Shopify connector is licensed within the imc Learning Suite. All configurations and functions specific to Shopify are only available once the license is active. Furthermore, some configuration activities will be required by imc consulting to finalise the setup.

Note: *In case Shopify is not activated on your system and you require a license for the Shopify connector, please contact your imc account manager.*

3 Learner journey

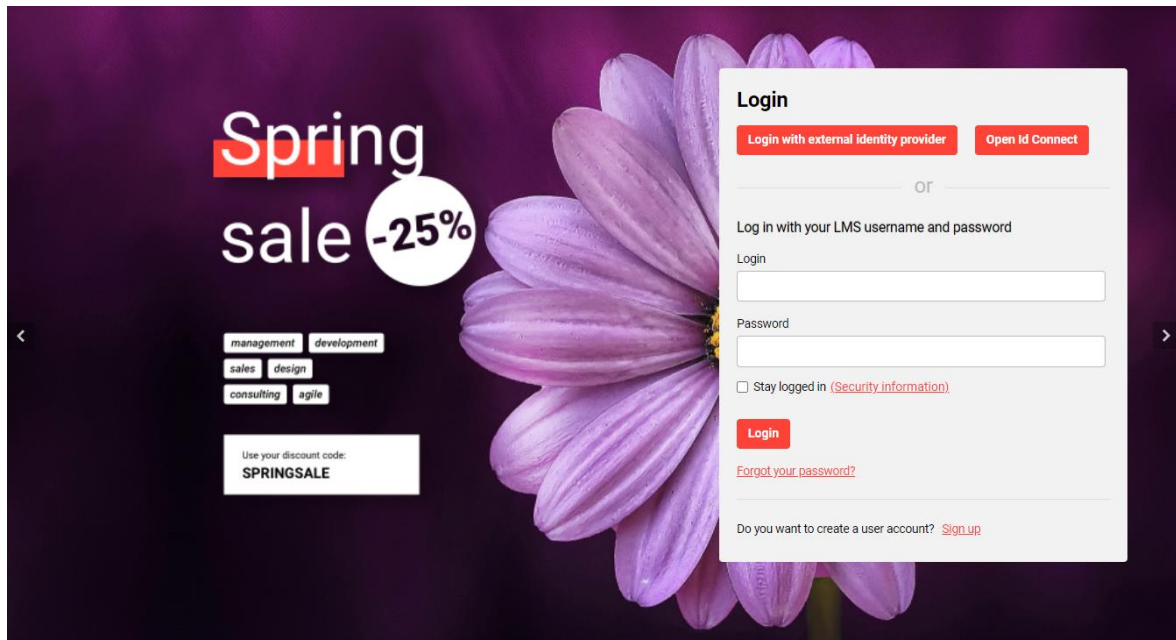


Fig. 3.1 Learner journey

The learner journey starts in the LMS catalogue. The learner will locate the desired item, add it to the shopping cart or log in first if previously not logged in, and proceeding to the checkout.



Fig. 3.2 Login.

On the checkout page the learner can provide discount codes or gift cards based on the Shopify configuration.

Once the payment is processed, the learner will be redirected to the LMS if such a redirect event is configured on the Shopify side and will be able to access the enrolled courses as soon as the transaction is finalized from the LMS side. This step might take several seconds although usually it is instantaneous.

3.1 Add to cart

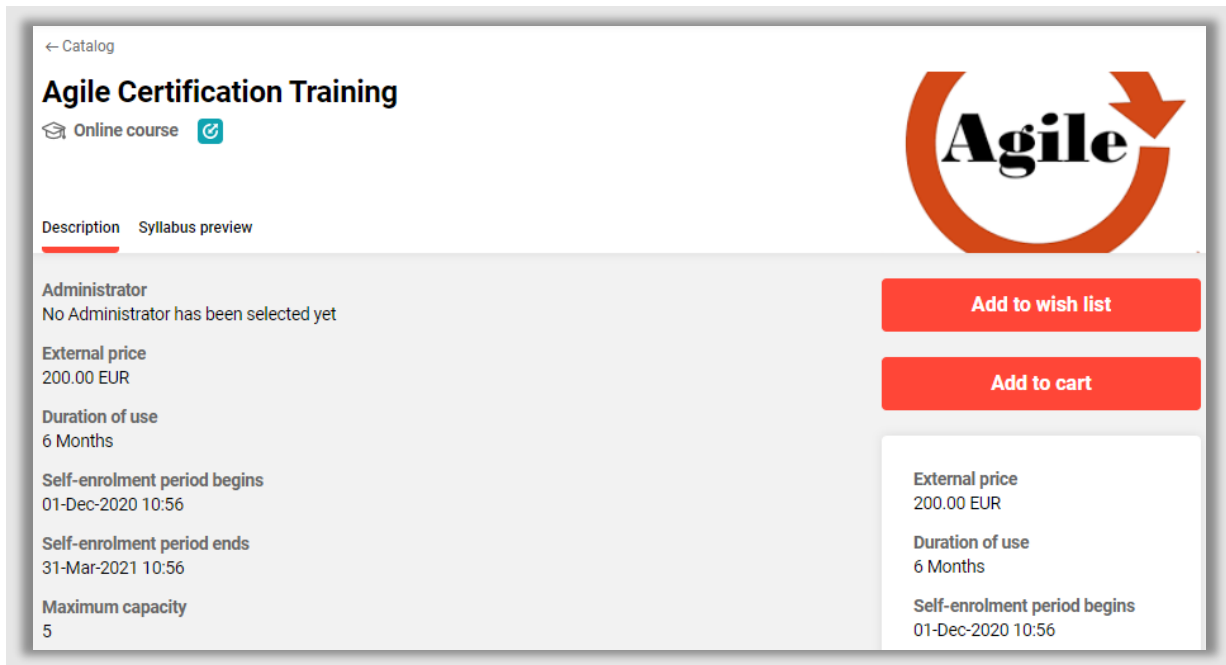


Fig. 3.3 Add to cart.

The add to cart option is presented to the learner in the following conditions:

- The course is marked as Shopify relevant with the meta tag: Send to Shopify
- The enrolment type of the course is "Self-enrolment"
- There are available free places on the course or learning path
- The Self enrolment period ends meta tag value is either not set or is set in the future
- Based on the defined prices, the learner is eligible to pay a price.

Courses available free of charged can be enrolled directly without the need to go via the checkout process.

If the user is already logged in, they can add the item to the cart. As soon as the item is already in the cart, an option to remove from cart is available instead.

If the user is not already logged in, the user will be invited to login in order to add to cart. Once logged in, the user will be redirected back to the item where the add to cart option is available.



To see the current list of items available in the cart, the shopping cart icon can be selected from the top navigation.

3.1.1 Courses inside learning paths

imc supports 2 workflows, for learning paths purchased via Shopify:

Scenario 1: Purchase of a Learning path allows the user to directly access all courses within (for free).

It is possible to configure direct enrolment for some or all the courses in the learning path, in which case the user will be automatically enrolled and will not need to purchase the courses additionally.



Communication Evolution

[Edit](#) [Learning path 135383](#) [End: Dec 21, 2020](#) [saved: Dec 10, 2020](#)

Info

Languages

Description

Syllabus



Classifications

Skills

Administrators

Requirements

Cancellation charges





Name	Object ID	Type	Book automatically	Language
 Communication Evolution	135390	Learning path		
 Advanced Development	115159	Blended learning	<input checked="" type="checkbox"/>	English (GB) (Administr...

Fig. 3.4 Configuring direct enrolment.

Note: The direct enrolment will only be possible if the user fulfils the prerequisites and there are no other impediments for performing the automatic enrolment.

Scenario 2: User purchases the learning path to get access to courses within. They must then enrol or purchase the courses.

Once a user purchases or is enrolled to a learning path, they must then enrol to the courses in the learning path. It is possible in this scenario to have the courses themselves free of charge i.e. non Shopify relevant.

Alternatively, if the course(s) are also Shopify relevant and has a price, the learner has to add the courses to the cart and purchase.

It is possible to configure direct enrolment for some or all the courses in the learning path, in which case the user will be automatically enrolled and will not need to purchase the courses additionally.

3.1.2 Purchasing courses/learning paths from multiple Shopify shops

Learner is able to purchase multiple courses/learning paths which are part of multiple Shopify shops.

Each course/learning path will be displayed on the shopping cart based on the Provider. Provider name will be also displayed alongside the subtotal of each shop.

Separate checkouts must be performed in this case and one checkout at a time will be possible. Once the user is finalizing eg: 1/3 checkouts, the cart will be automatically opened to perform the remaining 2 checkouts. When the last checkout is successfully completed, the cart will not be opened anymore.

The payment will be handled as before, on Shopify side.

imc AG - Shopify connector

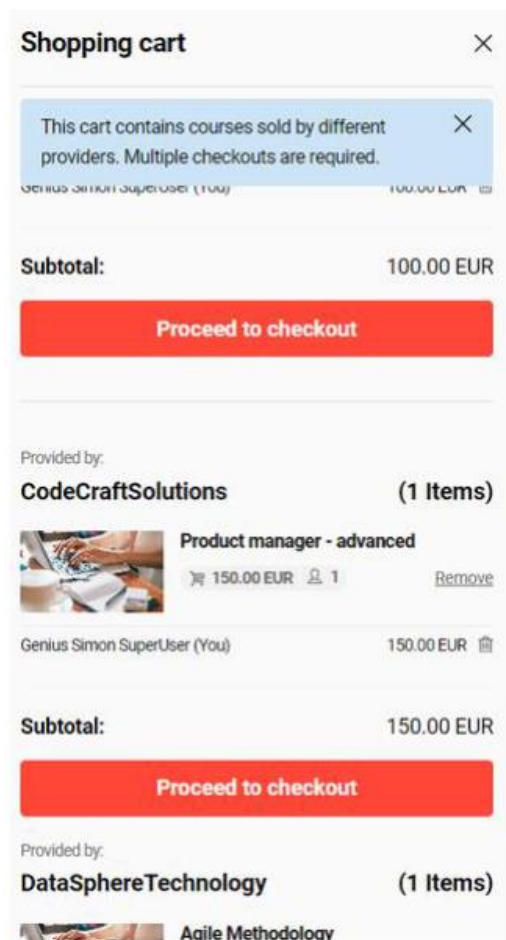


Fig. 3.5 Shopping cart – multiple Shopify shops.

3.2 Enrolment checks

Once the user has decided to add an item to his cart, a series of checks will be performed by the LMS to ensure that the user fulfils the conditions dictated by prerequisite definition or seat allocation. If any of these conditions is not met, the user will not be allowed to add the item to the cart.

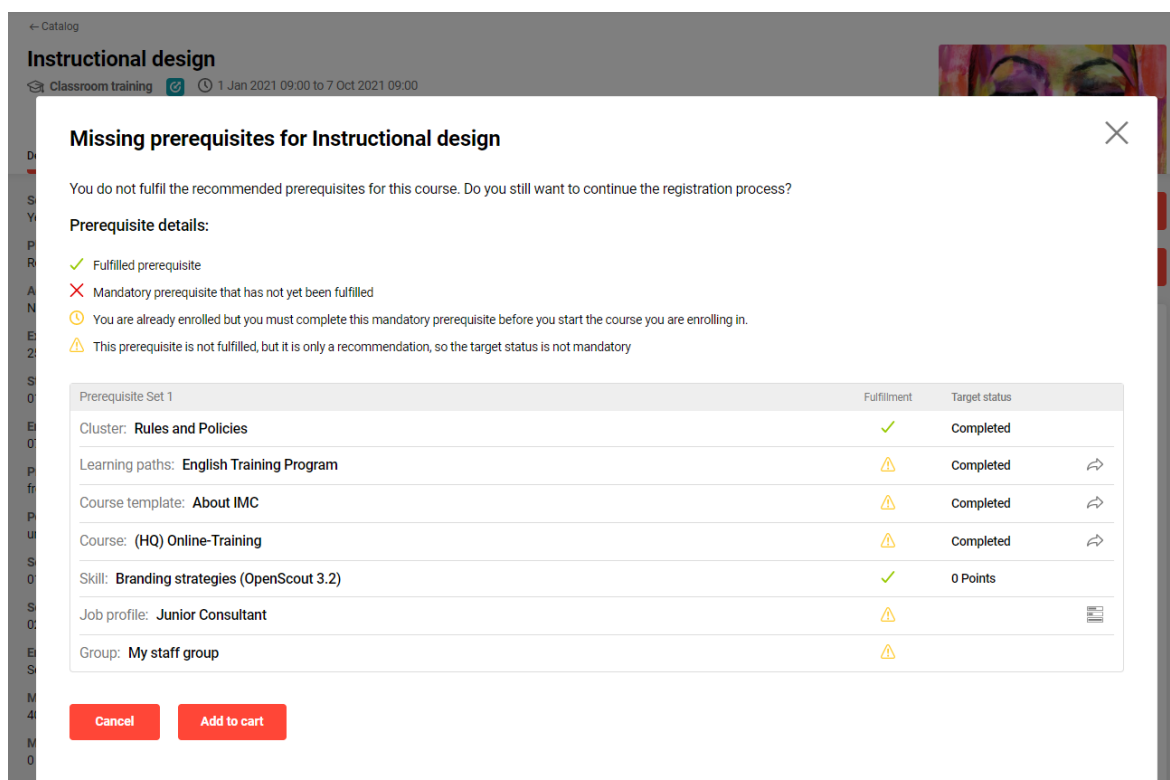


Fig. 3.6 Enrolment checks.

Recommended not fulfilled prerequisites will be displayed to the user with the option to proceed with the purchase.

When there are mandatory prerequisites not fulfilled, the course cannot be added to the cart. The learner will receive the information on the missing prerequisites.

In such a case, the course is not sent to the Shopify cart and no record of the attempt purchase will be recorded in Shopify.

3.3 Enrolment form

When an enrolment form is configured for the course or learning path, the form will be presented to the learner at the time when the learner wishes to add the item to the cart.

The information will be saved in a temporary table until the enrolment is processed.

If the enrolment is not processed within **50 days** after the enrolment data was provided, this data will be removed from the system, to ensure GDPR compliance.

3.4 View the shopping cart

When the shopping cart icon is selected, the current list of items which are available in the user's cart is displayed.

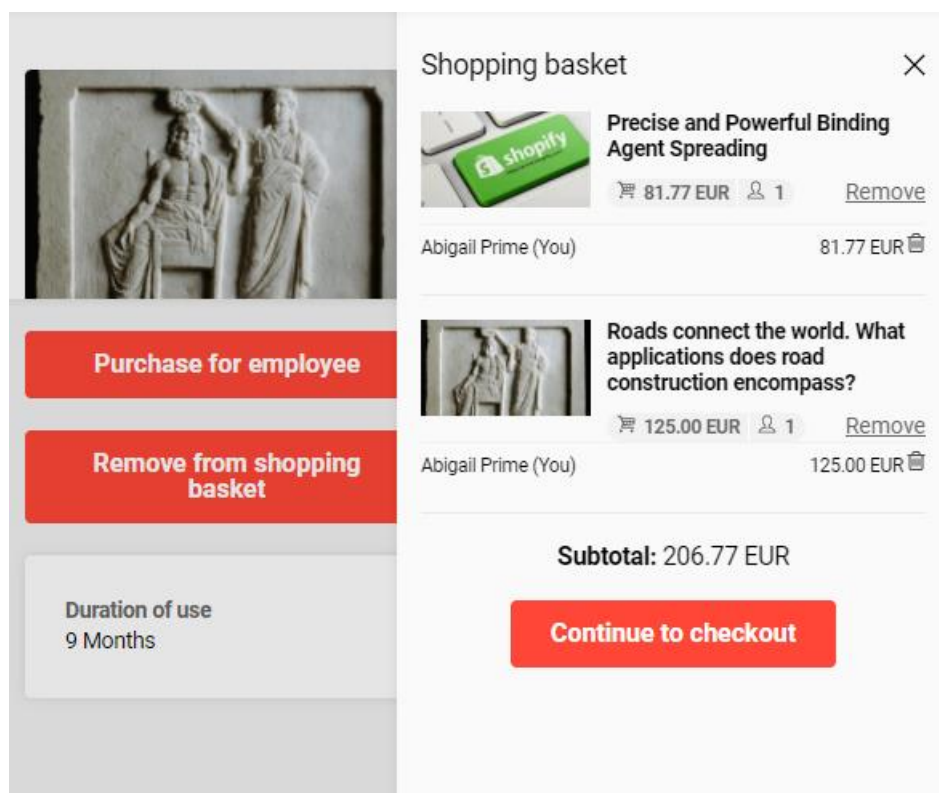


Fig. 3.7 Shopping cart.

The list will show the course title, image (either the one defined for the course if available in Shopify or the default image of the item) and the price with the corresponding currency.

At the bottom of the item list, a subtotal will be calculated, based on the standard price of each item. Further taxes or discounts are only accessible in the next step once the user has proceeded to the checkout page.

Important considerations

The shopping cart list is managed by Shopify and is based on a cookie that lasts 14 days. The time is extended whenever a new item is added to the cart. Due to this fact, the list of shopping cart items will not be accessible if the user decides to open the LMS in a new browser.

Since it is possible that changes occur in the system after the user added certain items to his cart and until they decide to checkout, there is a risk that the enrolment is no longer possible. In such cases, an e-mail will be sent to the administrator, as detailed in section [6.2.2 E-mail address for unprocessed orders](#).

3.5 Checkout and redirect to LMS

Once the user has selected the “Proceed to checkout” button, they will be redirected to the checkout page where the payment information can be provided.

The name of the participant(s) will be displayed for each selected item. The language of the text displayed before the participant’s name is shown in the LMS platform language available at the time when the “Add to cart” or “Buy now” action was selected.

imc

Information > Payment

Contact information

☐ Keep me up to date on news and exclusive offers

Billing address

County


County

Country/Region

Romania

☐ Save this information for next time


Continue to payment

1

Agile Certification Training

Standardpreis / 0

€200,00

1

Instructional design

Standardpreis / 0

€25,60

Apply

Total

€225,60

Fig. 3.8 Payment information.

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Shopify also allows the configuration of this check out page, along with changing the look and feel. If required, such skin design must be handled by the customer on Shopify directly. The imc design applied to the LMS will not automatically be carried over to the Shopify checkout page. The fields on the checkout page, including the billing and the e-mail address, are controlled by Shopify.

3.6 Order processing

Shopify will inform the LMS about the order and the orderer and the LMS will proceed to process the required enrolments.

If the order cannot be fulfilled entirely, an e-mail will be sent out to the configured administrative e-mail address, informing about the issue and summarizing which items could not be enrolled for the user. The admin will have the possibility to review the orders as part of the Shopify administrative backend and issue a refund accordingly.

Orders are not tracked within the LMS. The LMS only records enrolled courses and learning paths. If an order is not fulfilled in Shopify, no track records will be visible in the LMS.

4 Manager journey

Supervisors and HR managers are able to purchase courses and learning paths on behalf of their employees, either individually or in bulk.

The option is available through the following workflows:

- Selecting the desired course in the catalogue and selecting the option “Purchase for employee)
- Selecting the desired participants via My staff and selecting the multiple enrolment option
- Selecting an individual user via My staff and selecting the option to enrol employee

4.1 Purchase via My staff

Courses marked as Shopify relevant will be labelled with the “Upfront payment required” flag in the list of available courses once the multiple enrolment process has been accessed.

Upon selection, the price corresponding to each employee will be displayed, together with a hint whether the user is not yet enrolled or whether they already have a status as part of the course, in which case they will not be included in the purchase process.

In addition, when prerequisites apply, only users who fulfil the prerequisites will be available for purchase, while for the other users, the manager can check the individual prerequisite status via a dedicated action.

When other enrolment conditions apply, such as the need for an enrolment form to be filled out, or conditions related to seat allocation or multiple enrolment to courses from the same template, an individual check will be required. Once the needed individual checks are performed, if the enrolment conditions allow it, the supervisor will be able to add the item to cart for that concrete employee.

My Staff

My staff members

Multiple enrolment

Available courses

Proceed by selecting the desired courses for enrolment

Q

- Cold milling machines - Efficient milling and granulating of road pavements
Prerequisites apply Upfront payment required ID 3268939 Blended Training
- Precise and Powerful Binding Agent Spreading
Upfront payment required ID 3268775 Blended Training
- Recyclers and soil stabilizers - Recycling damaged asphalt pavements and stabilising surfaces
ID 3268929 Virtual Training December 1, 2021, 08:00 AM
- Roads connect the world. What applications does road construction encompass?
Upfront payment required ID 3268907 Blended Training

Selected courses

After selecting all relevant courses, you can proceed with the enrollment process

Your selected courses will show up here

Selected staff members

The course "Roads connect the world. What applications does road construction encompass?" requires upfront payment. The desired number of places for the selected participants will be added to the cart during the enrolment process. You can afterwards proceed to checkout with the contents of your cart.

Employee status overview

Already enrolled 2 Not yet enrolled 3 Canceled 3

- David William Abraham Already enrolled
- Adam James Cameron Canceled
- Thomas Ferguson Canceled
- Frank Gordon Jr €125.00 Not yet enrolled
- Lauren Hirsch Canceled
- Amy Jennifer Kimb €125.00 Not yet enrolled
- Joanne Madeleine €125.00 Not yet enrolled
- Emma Faith Still Already enrolled

Cancel Select for enrolment 3

Fig. 4.1 Purchase via My staff.

Once the eligible users are selected for enrolment, the supervisor will have the option, when configured, to provide a due date and an identification (such as Mandatory or Compliance) and proceed by either adding the selected items to the cart, or by checking out directly with the selected items.

The screenshot shows a user interface for course enrollment. At the top, under the heading "Selected courses", there is a sub-header "After selecting all relevant courses, you can proceed with the enrollment process". Below this, a course card is displayed for "Roads connect the world. What applications does road...". The card includes a thumbnail image of a road, the text "Blended Training", three small circular profile pictures, and a price tag showing "20" and "€375.00". Below the course card, the "Enrollment options" section contains two required fields: "Due Date *" with a date picker set to "24 February 2022" and "Identification *" with a dropdown menu set to "Required". At the bottom of this section are two buttons: a red "Buy now" button and a white "Add to shopping basket" button with a red border.

Fig. 4.2 Enrolment options.

When a combination of Shopify and non-Shopify relevant courses are available in the selection, the process will trigger the enrolment for those courses that can be enrolled directly and will add to cart the Shopify relevant courses.

When items are added to cart, the name of each selected participant will be displayed in association with the course for which they are selected for enrolment.

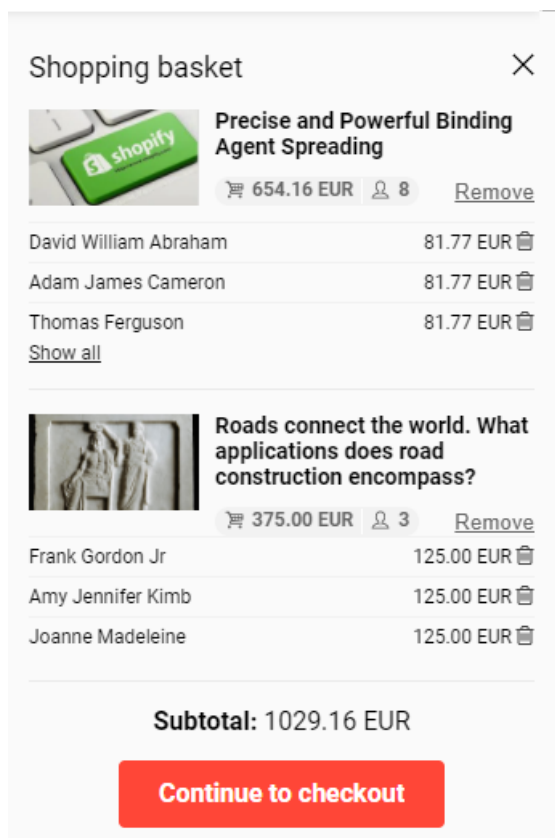


Fig. 4.3 Shopping basket.

4.1.1 Purchasing items for multiple employees

Supervisor can purchase courses/learning paths for multiple employees. All items will be added and displayed as below. Only adding to cart is possible in the multiple Shopify shops scenario.

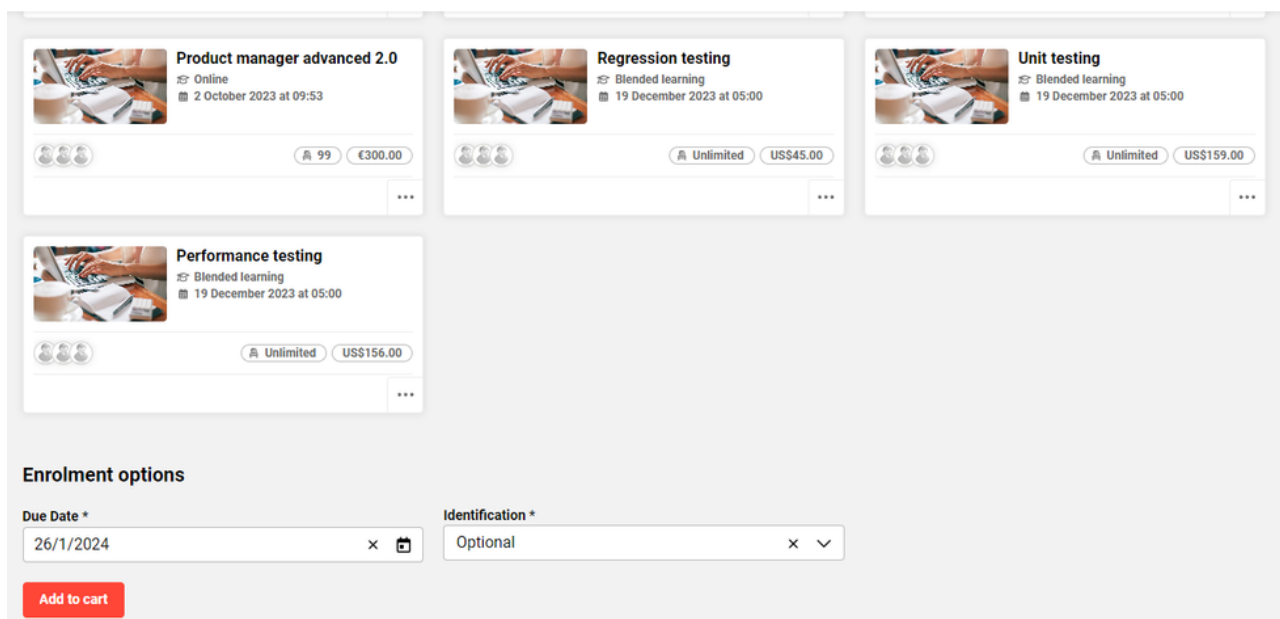


Fig. 4.4 Purchasing multiple items from multiple shops.

After adding to cart, the supervisor will see all the employees with all the items displayed based on Provider. Subtotal of each item will be displayed.

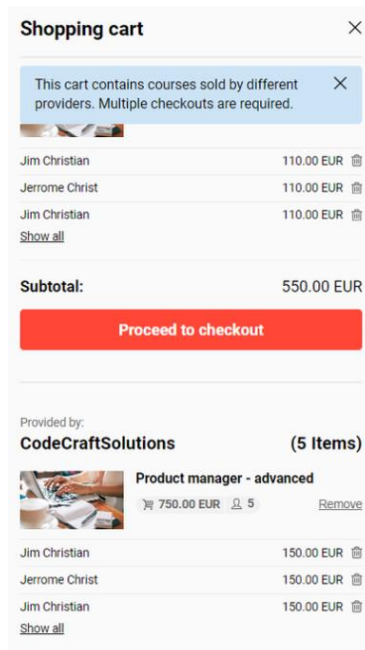



Fig. 4.5 Shopping basket - mutiple shops.

4.2 Purchase via the catalogue

Upon selecting the desired course via the catalogue, the supervisor will have the option to select the users who do not yet have a status on the course and proceed with the purchase process.


Catalog > Course


Multiple enrollment



Course


Roads connect the world. What applications does road construction encompass?
9 Months
125 EUR 20 spaces Not enrolled Blended Training

Participant to be registered
Please select... Create new user

**Joanne Madeleine**
Joanne.Madeleine PHB Engineers Sales Wirtgen Group (Sales) Joanne.Madeleine1@wirtgen.com not defined

**Amy Jennifer Kimb**
Amy.Kimb AL Zabin International Group Co. For Heavy Equipment Sales Wirtgen Group (Sales) Amy.Kimb1@wirtgen.com not defined

Enrollment options
Due Date * 02/24/2022  Identification * Required 

Add to shopping basket

Fig. 4.6 Purchase via the catalogue.

When enrolment conditions apply, the supervisor will only be allowed to select one participant at a time and proceed to adding to cart individually, in a process that allows the check for prerequisites, filling out an enrolment form if configured or performing checks like seat allocation or multiple enrolment for courses of the same template.

Notes: It is also possible to purchase multiple items which are part of different multiple Shopify shops directly from the catalogue.

5 Shopify configuration

5.1 Setting up the Shopify custom app

In order to allow the LMS to communicate with Shopify, a Shopify custom app must be created. For this purpose, log in to the administrative backend of Shopify -> navigate to Apps -> Develop apps for your store, then select the option to Create an app

After providing the app name (this can be any name you choose), you will be asked to configure the Admin API scopes and the Storefront API scopes

Admin API permissions:

- Inventory – write and read permissions
- Products – write and read permissions
- Product listings – write and read permissions
- Publications – write and read permissions
- Locations – write and read permissions
- Set the Webhook subscription to 2022-01 (the latest available at the time when the 14.13 version of the LMS was released)

Storefront API permissions:

- Checkout – unauthenticated write and read checkouts permissions
- Products – unauthenticated read product variants, unauthenticated read product inventory, unauthenticated read product tags

After all permissions are set, install the app.

Once the custom app has been created, the following information will be generated:

- API key
- Admin API access token
- Storefront access token


Please store this information as it will be required in the further step of configuring the LMS.

Admin API access token

Use your access token to request data from the [Admin API](#).


.....d094

Created Jun 26, 2023 at 12:56 UTC

 You can't view this again because it provides authenticated Admin API access.

Storefront API access token


Use your access token to request data from [Storefront API](#).

1e402fced1d755db36dac7188564cfd6 



Created Jun 26, 2023 at 12:56 UTC

API key and secret key

API key

2c8dd6b289d7e4382b07ebf77e075ddb 

API secret key

.....  

Created Jun 26, 2023 at 12:47 UTC

Fig. 5.1: The Shopify custom app.

5.2 Creating a Shopify Webhook

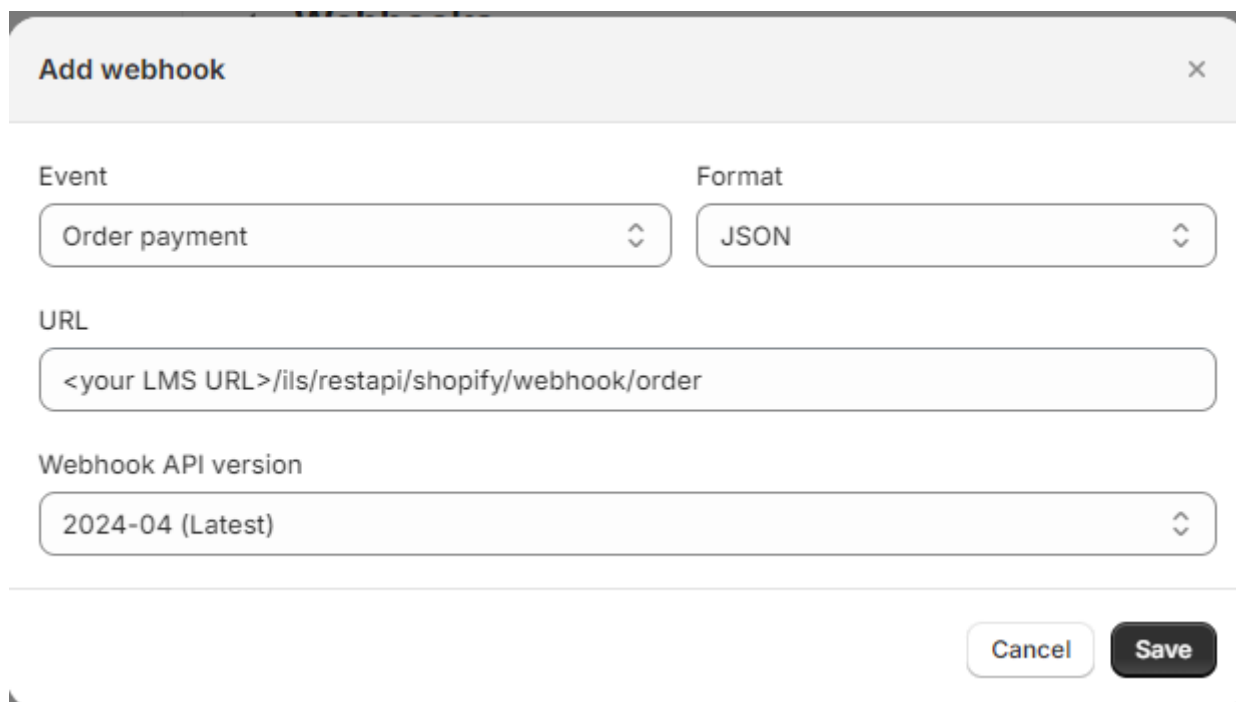
A webhook is required to allow Shopify to inform the LMS on the order payment event, which the LMS will need in order to process the enrolment of the user after the purchase.

In order to set up a webhook, you must navigate to the following section in Shopify:

<http://yourshop.myshopify.com/admin/settings/notifications>

Create a webhook for Order payment following the example below:

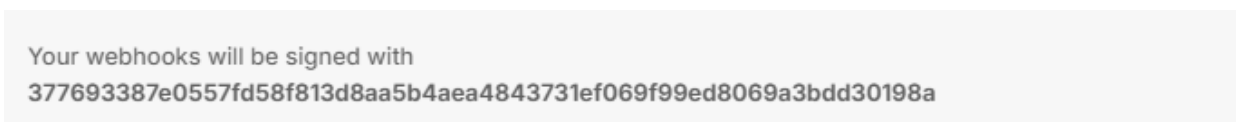
<Your LMS URL>/ils/restapi/shopify/webhook/order



The screenshot shows the 'Add webhook' dialog in Shopify. The dialog is titled 'Add webhook' and has a close button (X) in the top right corner. It contains four fields: 'Event' with a dropdown menu showing 'Order payment', 'Format' with a dropdown menu showing 'JSON', 'URL' with a text input field containing '<your LMS URL>/ils/restapi/shopify/webhook/order', and 'Webhook API version' with a dropdown menu showing '2024-04 (Latest)'. At the bottom right are 'Cancel' and 'Save' buttons.

Fig. 5.2: Shopify Webhook.

After the webhook is created, a webhook key will be provided. This value must be added in the API secret field of the LMS configuration.



The screenshot shows a text box with the text 'Your webhooks will be signed with' followed by a long alphanumeric string: '377693387e0557fd58f813d8aa5b4aea4843731ef069f99ed8069a3bdd30198a'.

Fig. 5.3: API secret field.

5.3 Setup a redirect URL

Once a transaction has been completed in Shopify i.e. a successful checkout has been processed, the user must be redirected back to the LMS. Shopify allows the configuration of a redirect URL where the user can be taken after the checkout process is complete. This checkout URL **must** be configured by the customer, on the Shopify admin interface:

From the Shopify admin section -> Settings -> Checkout -> Order processing -> Additional scripts.

In the field, you can provide the desired return URL.

imc offers two possibilities:

Option 1: Standard url back to the learning area or to any existing dashboard pages in the LMS

e.g. `<script> window.location = "<your LMS URL>/pages/personalarea.jsf"; </script>`

imc recommends a redirect to a dashboard to allow the system the time needed to process the enrolment.

Option 2: Custom feature panel

By using a feature plugin panel, it is also possible to display the order number on an LMS dashboard, in which case the return URL could be:

```
<script>window.location="<Your LMS URL>pages/new-internal-dash-  
board.jsf?menuld=<menuld>&locale=en-GB&showbundlekeys=false#/?dashboardId=<dash-  
boardId>&order_id={{order_number}}"; </script>
```

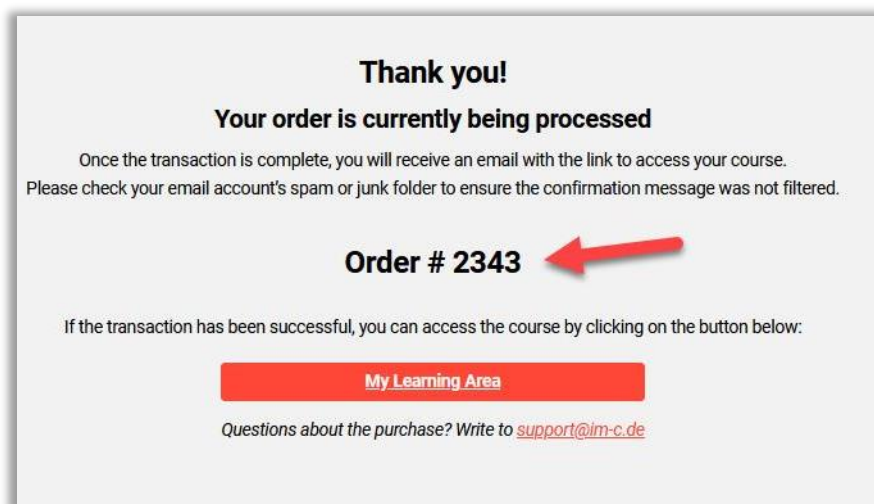


Fig. 5.4: Setup a redirect URL.

Note: The custom feature panel is not included in the standard product and has to be setup separately. Please contact your account manager for an effort estimation.

5.4 Set Shopify language and currency

A Shopify shop requires a store currency that can be configured by accessing the General settings: <https://yourshop.myshopify.com/admin/settings/general>

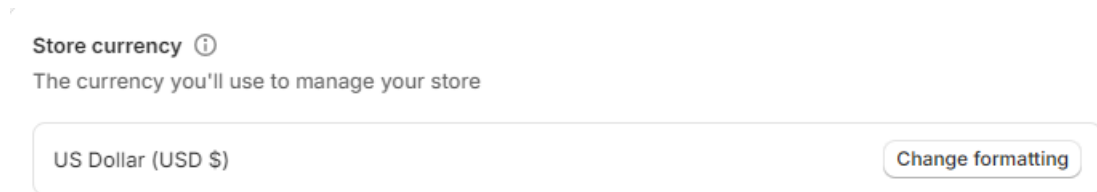


Fig. 5.5: Shopify currency.

The Shopify language must be set in the languages section:
<https://yourshop.myshopify.com/admin/settings/languages>

Fig. 5.6: Shopify language.

6 LMS System configuration

6.1 Configuration required to connect the LMS to Shopify

The LMS administrator has the possibility to configure, system-wide, a Shopify shop that the LMS will connect to in order to create, update products and process enrolments.

The information obtained during the Shopify private app setup will be required here in order to connect the two services.

Shopify
Edit System setup 25 saved: 29 Jan 2024 Context: STAGE

Default settings Additional Shopify shops

Created	Last update	Object ID
System	29 Jan 2024, 11:01 (TLUser Change.P	25

Shopify is a single language and single currency platform. Please ensure that courses and learning paths defined as relevant for Shopify are configured with the appropriate default language and currency to ensure consistency.

Default Shop

Shop name (50 characters max.) ⓘ
DefaultShop

Base URL (e.g. https://yourshop.myshopify.com) (100 characters max.)
https://lateststore2023.myshopify.com

API Version (e.g. 2022-01) (100 characters max.)
2023-10

API key (e.g. 1b763f5a68b88f94b7c633a22c21a3be) (100 characters max.)
1db7e3d41809d1d3a3f5b026629e5c

Admin API access token (e.g. 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) (100 characters max.)
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

Webhook key (e.g. 9f3e59a1c88d9ebd7f191cb9d88cd96fdc56d68a50b1c0465ca3c512d071234) (100 characters max.)
5cc3fd256e73b578188625ac8c148152b3dcb060484797ab878eacbff0765f5

Location ID (e.g. 58322550982) (100 characters max.)
82134597944

Storefront API access token (100 characters max.)
ba95adad41f8881e5530b81c55cc8baf

E-mail address for issues related to enrolments (100 characters max.)
TL_User_Change_Profile@im-c.de

☒ Require checkout for free courses

System wide

Metatag ID to be used as SKU for the Shopify product variant (100 characters max.) ⓘ

Metatags to be assigned as tags to Shopify products (eg 10000,10001) (100 characters max.) ⓘ

☐ Learners can directly enrol non-free Shopify relevant courses from an already enrolled learning path

Vendor name (100 characters max.) ⓘ
GoodlatestStore2023

☒ Automatically publish courses to the custom app

Fig. 6.1 Shopify configuration.

Base URL – this is the URL of your Shopify shop -> https://yourshop.myshopify.com/

API Version – Specified the Shopify API version used by the LMS. imc has tested the connector with the version 2022-01. Please use the same version unless otherwise specified by imc.

The values for API Key, Admin API access token, Storefront API access token and Webhook key obtained from Shopify should be provided in the corresponding fields in the LMS.

For the API paths, please use the following values explicitly:

API path for GET requests

/admin/api/{api-version}/products/{productId}.json

API path for creating the Shopify catalogue

/admin/api/{api-version}/products.json

API path for updating the Shopify catalogue

/admin/api/{api-version}/products/{productId}.json

6.2 Additional configuration possibilities

6.2.1 Configuration for additional meta information

As part of the Shopify configuration, a dedicated entry is available to allow adding additional information that should be added to the Shopify product, besides the information that is provided by default, as detailed in chapter [5.4 Set Shopify language and currency](#).

An important aspect to be noted is that adding additional information will increase the time needed by the scheduled job to populate the product catalogue.

6.2.2 E-mail address for unprocessed orders

If the LMS is unable to process a paid order, there is a possibility to configure an emergency e-mail address where an e-mail will be sent providing information about which items from the given order could not be process.

In that event, the admin can act by either issuing a refund from Shopify or contacting the user. This field is found in the LMS system configuration.

E-mail address for issues related to enrollments (500 characters max.)

Fig. 6.2 Email address field.

6.2.3 Specific meta tag to be used as SKU for the Shopify product variants

Shopify product variants contain an SKU field which can be used for reporting on the Shopify side. With version 14.10 of the LMS, it is possible to define a meta tag to be used as source for the SKU value. Text meta tags are supported here.

Metatag ID to be used as SKU for the Shopify product variant (100 characters max.)

Fig. 6.3 Metatag field.

6.2.4 Vendor name

By providing a vendor name in the dedicated field, the Shopify vendor field will be populated when the product catalogue is generated by the LMS. The vendor name is used as an extra webhook security, ensuring that only requests which provide this value are processed as valid enrolment requests by the LMS.

Vendor name (100 characters max.)

Fig. 6.4 Vendor name field.

6.2.5 Automatically publish courses in the custom app

When generating the product catalogue and creating the corresponding courses and learning paths via the LMS into Shopify, it is possible to make these entities available for purchase automatically by enabling this setting. When disabled, the publishing is not automatically done and must be managed manually via Shopify.

6.2.6 Require checkout for free courses

Enable this function when required that users checkout even for purchases where some of all items are free of charge, when such a process is required for invoicing purposes.

6.2.7 Behaviour configuration for courses inside learning paths

When providing learning paths as course bundles for reduced price, it might be desired that once the learning path is purchased, the courses inside can be enrolled without additional cost. A configuration is available to determine if course enrolment from an enrolled learning path should be permitted without asking the user to purchase the course in addition.

6.2.8 Possibility of configuring multiple Shopify Shops

It is possible to also define multiple shops besides the default shop configured for allowing purchasing courses/learning paths from multiple providers connected to other Shopify shops. The differentiation between the multiple shops and courses/learning paths pertaining to different shops will be done based on Provider.

On Provider manager, an additional field is now available, called **Shopify shop** which will have as preselected the default Shopify shop defined on the **Default Settings** tab. It can be easily changed by selecting another shop from the list. The new shop has to be created in advance.

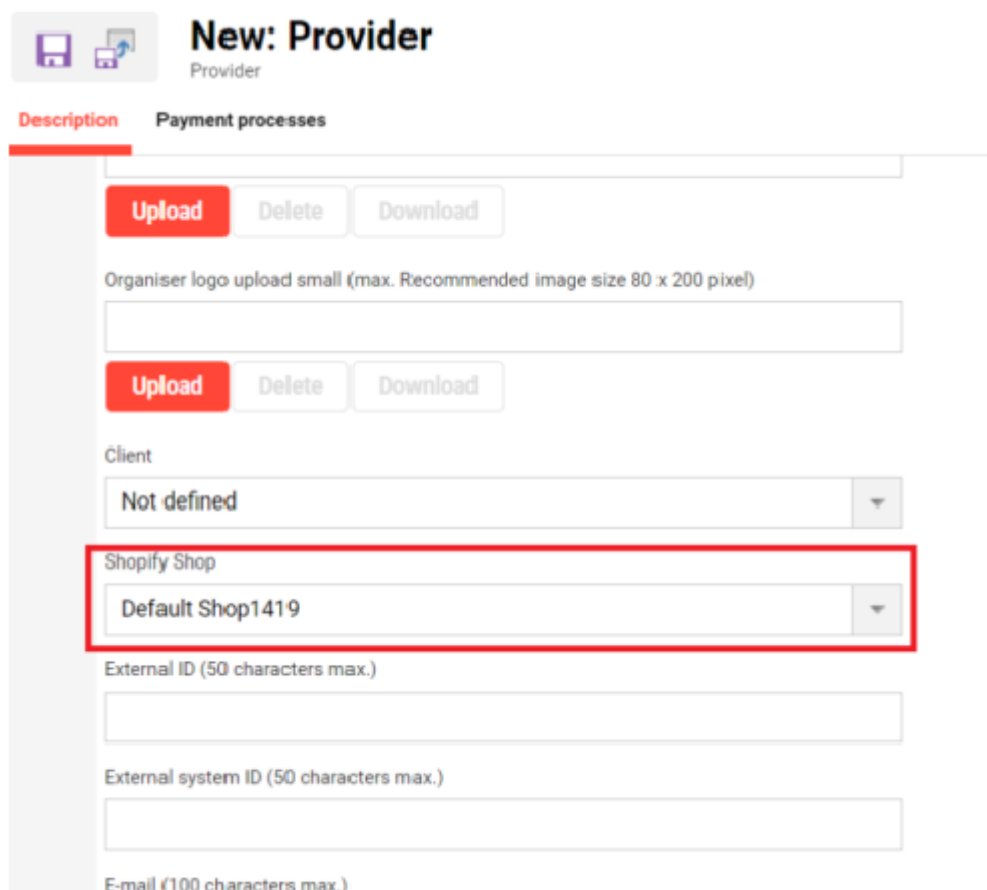


Fig. 6.5 Shopify shop field on Provider manager.

Important: In case on course/learning path level the Provider field remains empty and the item is marked as Shopify relevant, it will be connected to the default Shopify shop. If there is another shop the user wants to connect an item to, the provider needs to be selected from the field.

Notes: if Shopify is enabled on the system (licensed), the field will be displayed. Otherwise will be hidden.

On the additional tab displayed, called **Additional Shopify shops**, the administrator will be able to configure as many shops as desired.

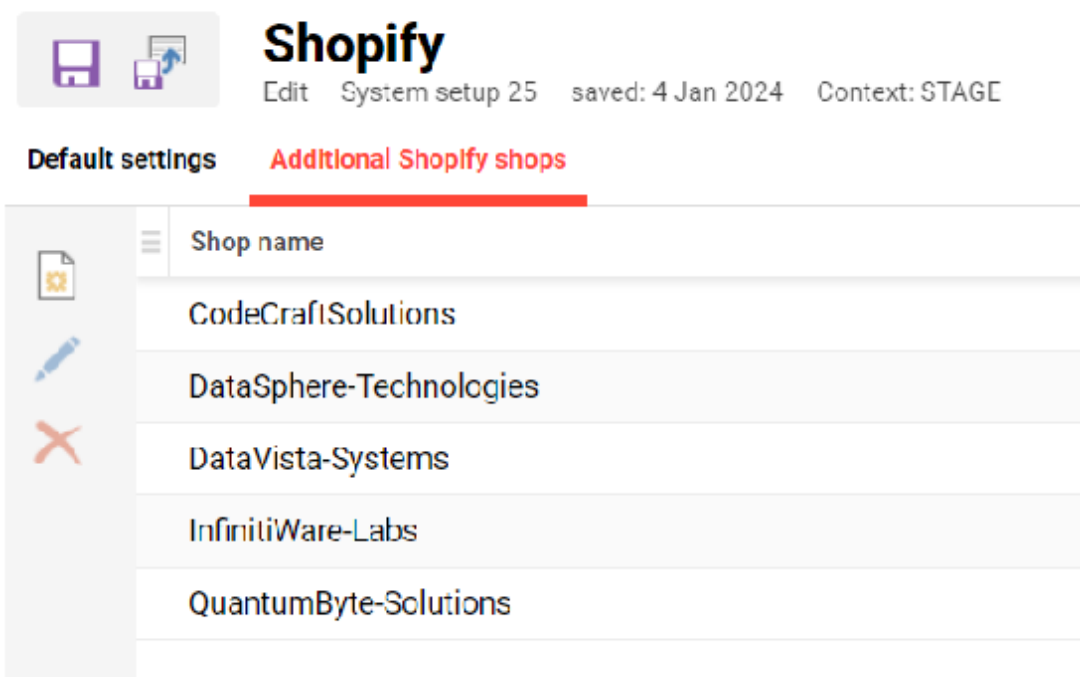


Fig. 6.6 Configuration of additional shops.

Create, edit and delete are the actions which can be performed for configuring additional shops.

Create – it will be possible to create additional shops by opening a page with several fields which contain only Shopify related configurations in order to establish a connection with Shopify. Mandatory fields are marked with an * and when saving the form, notification will be displayed if required details are not provided. Once the form is saved, the shop name will be displayed in the list.

Delete – this action will allow deleting a shop only if the course was not assigned already to a provider. In case there is a connection between the shop and the provider, the user will be informed via a notification. On one shop at a time can be deleted. Multi-selection is not possible for delete functionality. Deleting the provider before decoupling from the Shopify shop will result in the impossibility of deleting the shop, so avoiding doing this is suggested.

7 Populating the Shopify product catalogue

7.1 Meta tag and scheduled job configuration

In order to be able to purchase courses or learning paths via Shopify, the following configurations are required:

- Each course and learning path that is expected to function with Shopify must be labelled with a meta tag and have the planning status *Released*. The meta tag is named “*Send to Shopify (11820)*”
 - Note: this meta tag must be added manually into course types, course templates, courses and learning paths. Additional effort would be required to add the meta tag to any existing objects using scripts.
- Based on this meta tag, a scheduled job will periodically update the Shopify product catalogue
 - CreateOrUpdateShopifyCatalogItemsJob
 - Processor name:
`de.imc.clix.webservices.client.shopify.job.CreateOrUpdateShopifyCatalogItemsJob`
 - This must be configured by imc consulting and the recommendation is to set the cron scheduler to run in alignment with the Solr indexing for the catalogue.
- Once the courses and learning paths have been added as products to Shopify, the products must be made available to the private app so that they can be added to the cart as part of the checkout process (This is only required when an automatic publish is not desired. See above). For this step, please navigate to Shopify admin, access “All products”-> select all -> More actions -> Add available channels -> Mark the private app and click “Make products available”.
- In order for the system to be able to process Webhooks, an additional cron job must be configured, with the recommendation to schedule it at short intervals. This cron job is responsible for identifying the received webhooks that have not been processed yet and to process them, so that the corresponding enrollments are carried through.
 - The name of the job is ShopifyProcessWebhookJob.

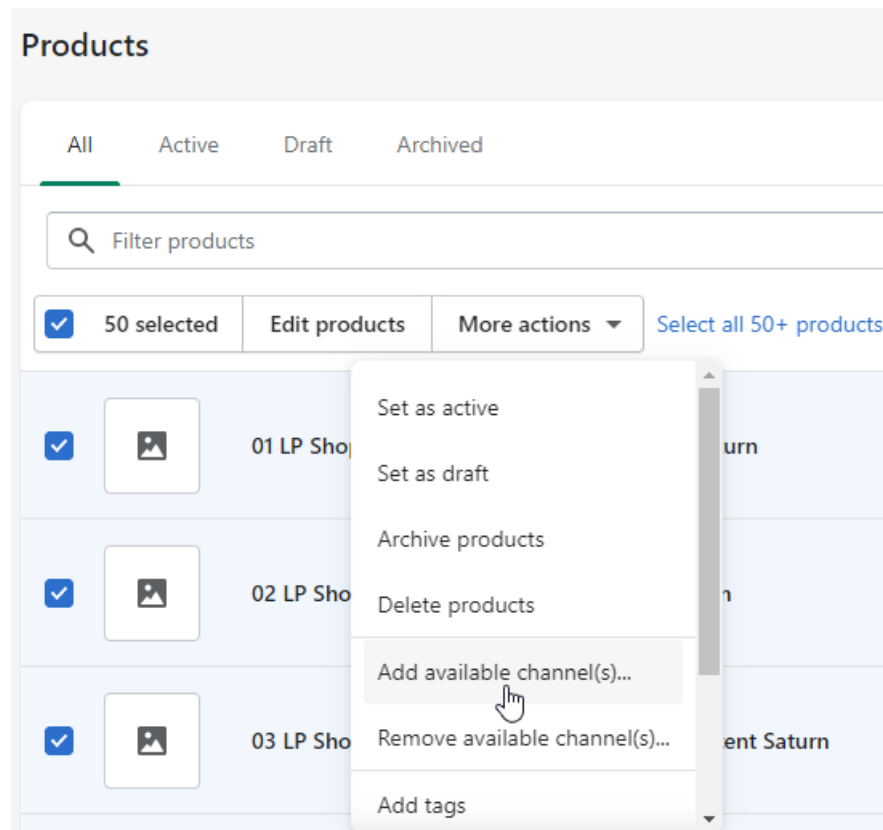


Fig. 7.1: “Add available channel(s)” selection.

Since a Shopify shop has one default currency and one default language, the LMS only supports as part of the connector single language and single currencies. This restriction applies both for creating the product catalogue and also for the checkout process.

The default language and default currency of the item will be used.

The default language is the language marked as Basis on the Language tab of the course. The default currency is the currency specified in the External price meta tag (Id 10128).

Special attention must be given to setting up the correct default currency of an item. The default currency of the item must match the default currency of the Shopify shop, to avoid inconsistencies during checkout.

7.2 Updating the product catalogue

To keep the Shopify available quantity in sync with the number of free places in ILS for a course or learning path, ILS is sending an updated information in case the target status of a participant is changed to cancelled or enrolled. This means that in order to ensure there are no discrepancies, participants should not be completely removed from courses or moved without being first cancelled, respectively the participants should not be added to the course with a status other than enrolled.

In case there is a need to perform such status changes, please ensure that the cronjob is configured to run frequently to maintain the free places consistency.

When a payment is processed and the LMS is notified via the Webhook, the free places are adapted accordingly.



Since the creation and update of products in Shopify is automatically handled by the LMS, we advise to avoid any manual changes done in Shopify directly, as this might cause that products cannot be updated anymore.

7.3 Default meta information sent to Shopify

By default, the LMS will populate the following metatags from courses and learning paths, to a Shopify product:

- Name (id: 10000)
- Preview image (id 10950)
- Price (See chapter [5.4 Set Shopify language and currency](#) for more details on how the LMS handles price information)

For each group specific price, a separate product variant will be created.

Important: To make the image available for Shopify, the image data folder must be accessible publicly. This should be done either by imc if the system is hosted by imc or by the customer if the system is hosted on premise.

7.4 Configuration for additional meta information

As part of the Shopify configuration, a dedicated entry is available to allow adding additional information that should be added to the Shopify product.

This information is based on meta tags and will be mapped to **tags** in Shopify.

While the LMS does not restrict the usage of any meta tag type, the only supported types are text field and selection lists. Using other meta tag types may result in a different output than expected due to formatting reasons.

An important aspect to be noted is that adding additional information will increase the time needed by the scheduled job to populate the product catalogue.

7.5 Group specific pricing

Within the LMS it is possible to define, for courses and learning paths, different prices for different user groups.

Project management
Edit Course template 146883 Version: 21.0 saved: Feb 16, 2021

Description Meta tags and attributes Languages Course description Components Classifications Skills Social media Library Offline tests/feedback forms Tutors Requirements **Prices and currencies**

Name	ID	Currency value
Standard price	0	
EUR		500
IMC - Learner	110167	
EUR (Default)		0
Assurance Group - Lerner	115763	
EUR (Default)		250

Fig. 7.2: Group specific pricing.

A standard price based on the External price meta tag will need to be defined. Additional preferential prices can be defined by adding the corresponding user groups and defining the applicable price.

When creating Shopify products based on such courses, a separate variant will be created for each available group.

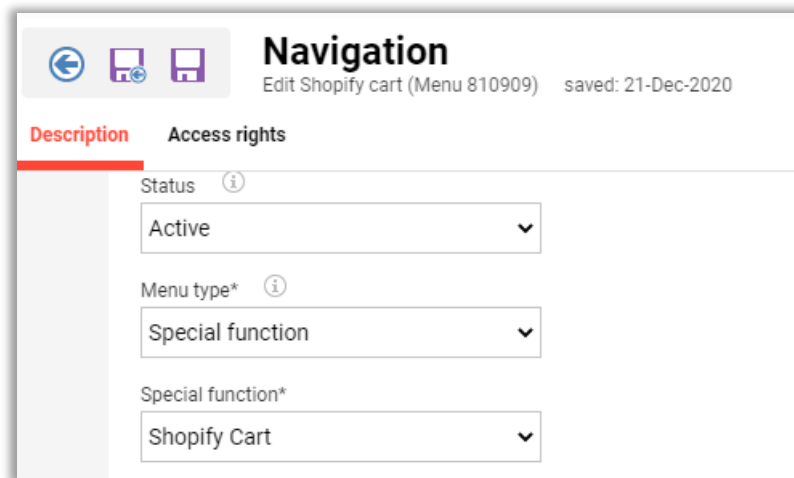
Important – please define prices only in the currency of the Shopify shop. Defining prices in multiple currencies will result in an un-processable product creation in Shopify.

8 Shopping cart navigation item

As part of the configuration in the LMS, a new navigation item must be made available to learners so that they are enabled to monitor the shopping cart list and proceed to checkout.

Note: Please configure the navigation in the **Main navigation for all categories**.

The navigation entry is a special function menu type.



The screenshot shows a web-based configuration interface for a navigation item. At the top, there are three icons (a circular arrow, a document with a plus, and a document) followed by the title 'Navigation'. Below the title, it says 'Edit Shopify cart (Menu 810909)' and 'saved: 21-Dec-2020'. The interface is divided into two tabs: 'Description' (which is active and highlighted with a red underline) and 'Access rights'. Under the 'Description' tab, there are three dropdown menus: 'Status' with 'Active' selected, 'Menu type*' with 'Special function' selected, and 'Special function*' with 'Shopify Cart' selected. Each dropdown menu has a small information icon (i) to its right.

Fig. 8.1: Shopping cart navigation item.

9 Shopify administrative view

On the Shopify side, besides the creation and management of discount codes, the Shopify administrative backend provides an analytics dashboard that helps monitor sales trends, identify best-selling courses, and enable training providers to identify ways to boost sales.

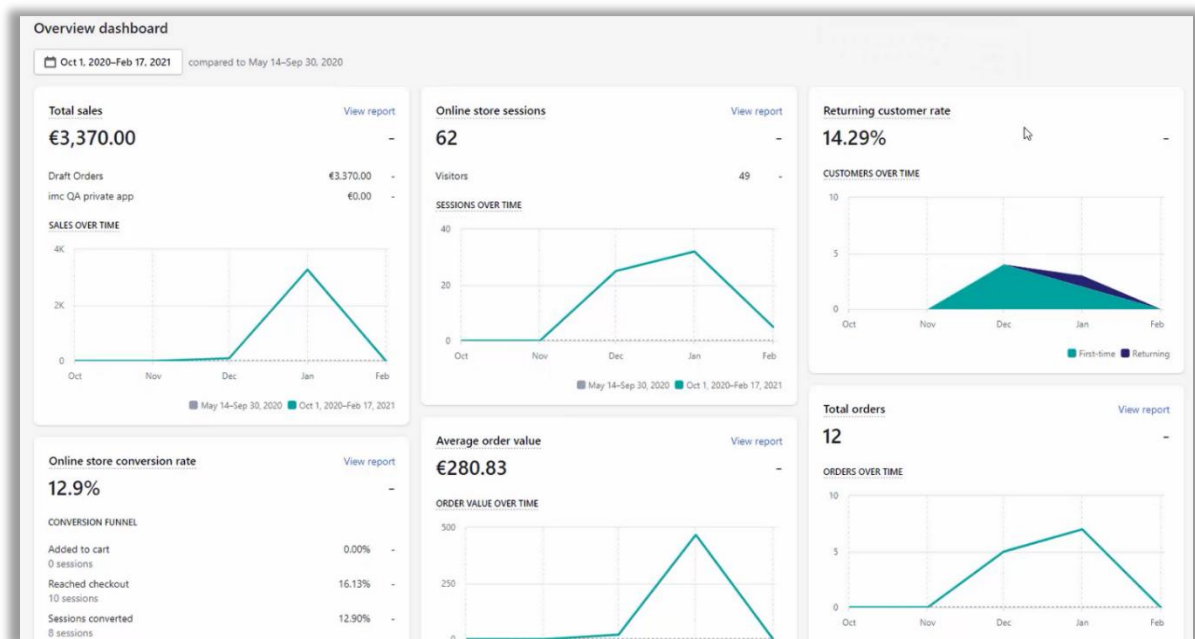


Fig. 9.1: Shopify administrative view.

10 Out-of-Scope

- The LMS Shopify connector is only supported in a single language and single currencies. Customers are advised to ensure that all courses and learning paths used with Shopify have the same default language and the same default currency as the Shopify shop.
- Booking participants via Easy course creation or on Waiting list if there are no available places is not possible for Shopify relevant courses/learning paths.
- The enhancements described in this document are only applicable for the web application and are not in scope for the native mobile apps.

11 Effects on other components

No effects on other components.

12 Data migration

No data migration necessary.

13 Data protection and security

No impact on data protection and security.