



PostNL ECS Magento 2 extension

ECS

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2 Introduction

PostNL E-commerce Services (ECS) offers a Magento 2 extension to their customers. The extension simplifies the process of connecting and integrating the webshop to the fulfillment systems of PostNL ECS known as the Integrator. The basic processes needed for integration are supported by the extension, for more complex integrations the extension can be used as a starting point and customized by the customer for their specific needs. PostNL does not offer any customization services for the extension.

This manual describes the installation and basic functionalities of the Magento 2 extension.

2.1 Purpose/goal of the Magento 2 extension

The purpose of the Magento 2 extension is to offer an easy and standardized process of connecting Magento 2 webshops to the PostNL ECS Integrator. The extension is offered upon request as an added value service by PostNL ECS to clients with Magento 2 webshops.

The current version of the Magento 2 extension supports all the basic integrations required:

- Product export from Magento 2 to Integrator
 - Product messages are exported from Magento 2 in XML format and are imported in the Integrator
- Order export from Magento 2 to Integrator
 - Order messages are exported from Magento 2 in XML format and are imported in the Integrator
- Shipment import from Integrator to Magento 2
 - Shipment messages are provided in XML format by the integrator and are imported in Magento 2
- Inventory (stock) update from Integrator to Magento 2
 - Inventory messages are provided in XML format by the integrator and are imported in Magento 2

Detailed information about the XML formats can be found in the appendix.

The extension is tested for and supports the following Magento 2 Community Edition versions:

- Magento CE 2.1.x

For older Magento 1 CE versions from 1.6.x up a separate extension is available and can be provided upon request. The extension is tested on a 'clean' default installation of Magento 2 CE versions 2.1.x.

Any issues caused by custom development on your Magento installation or extensions installed, are not supported by PostNL ECS.



3 PostNL ECS Magento 2 extension installation

The Magento 2 extension is intended for ECS clients with a Magento 2 webshop and will connect the webshop to the fulfillment system of ECS. This chapter will describe the installation steps for the extension. For some of the steps you may need the help of your **technical/system administrator**.

It is strongly recommended install the extension first on a test environment. Before installing the extension on your production environment always make sure to take a backup of your webshop installation (all files and database).

After installation and configuration you can directly start using the extension. The extension needs at least PHP version 5.6.x and up installed on your server and Magento cron enabled. To check these requirements you can contact your hosting provider or **technical/system administrator**.

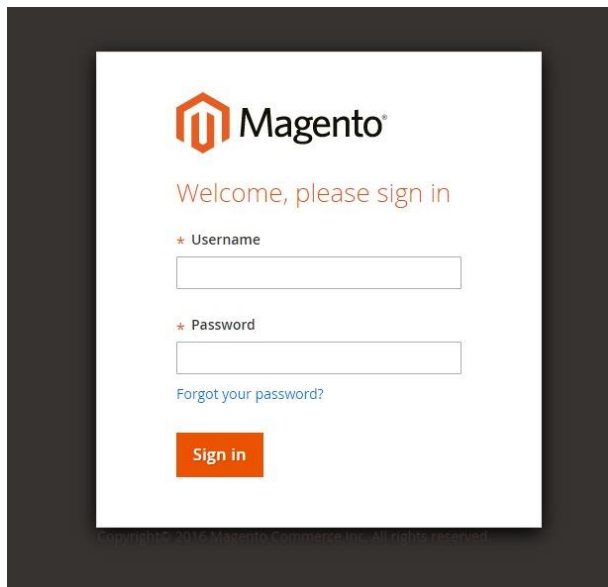
The extension is only available upon request and will be provided by PostNL ECS. Prior to installing the extension you will need the extension package and connection details to the SFTP of PostNL ECS which handles the message exchange. Both will be provided by PostNL ECS.

It is strongly recommended to install the extension first on your test environment prior to installing it on your production environment. PostNL ECS also has testing environments available for both the SFTP and the Integrator. This will enable you to test the extension extensively before installing it on your production environment. **Note: for upgrading the same steps must be followed, check the release notes for upgrades for any additional steps and information.**

3.1 Installation steps

Before continuing make sure that you have a backup of your Magento 2 installation. The recommended way of installation is by COMMAND LINE. To install the extension using COMMAND LINE follow the steps described below.

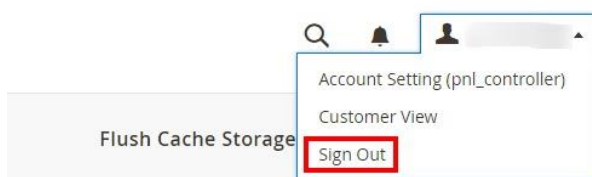
1. Make sure you have the extension package available and the SFTP and SSH command line connection details available
2. Unpack the contents of the extension package provided by PostNL ECS on your local system to a temporary directory
3. Connect to your server by (S)FTP with your favorite (S)FTP client and upload the extension package contents from where you unpacked it locally to your Magento 2 installation root directory. No files will be overwritten, once upload is finished continue with the next step
4. Log on to your Magento 2 admin panel environment



5. Go to your Magento 2 admin panel and disable your cache under: System > Cache Management, click on select all, check if the dropdown action Disable is selected and click on the Submit button and check if all are set status to disabled.

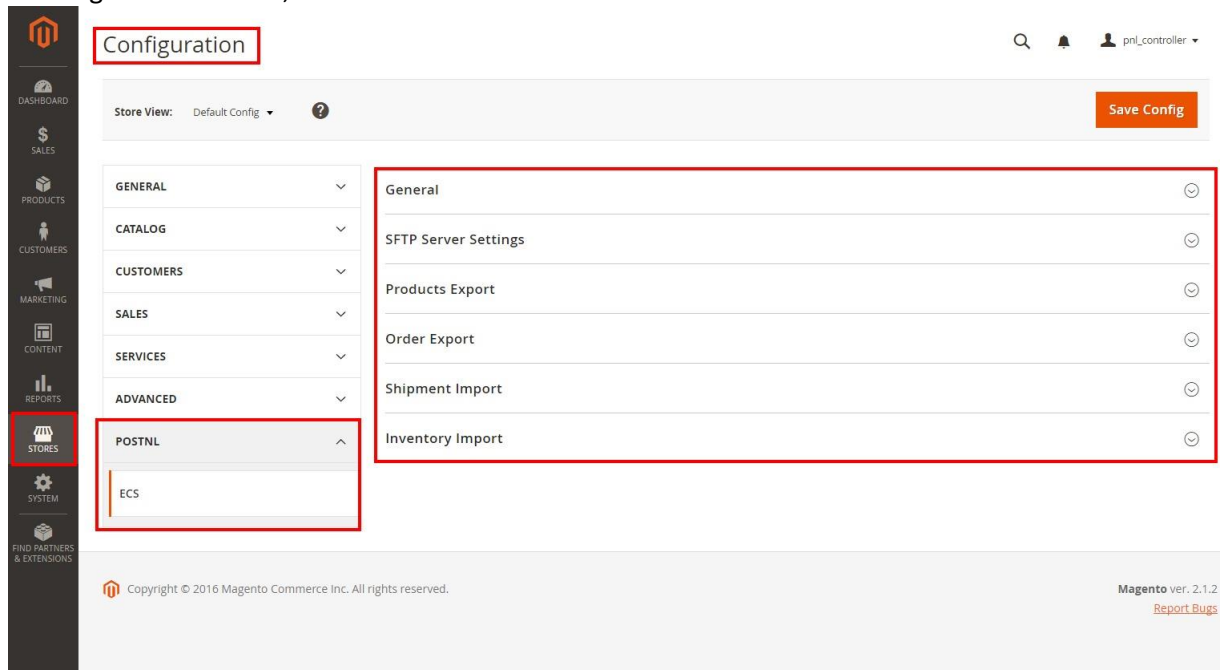
Cache Type	Description	Tags	Status
<input checked="" type="checkbox"/> Configuration	Various XML configurations that were collected across modules and merged	CONFIG	DISABLED
<input checked="" type="checkbox"/> Layouts	Layout building instructions	LAYOUT_GENERAL_CACHE_TAG	DISABLED
<input checked="" type="checkbox"/> Blocks HTML output	Page blocks HTML	BLOCK_HTML	DISABLED
<input checked="" type="checkbox"/> Collections Data	Collection data files	COLLECTION_DATA	DISABLED
<input checked="" type="checkbox"/> Reflection Data	API interfaces reflection data	REFLECTION	DISABLED
<input checked="" type="checkbox"/> Database DDL operations	Results of DDL queries, such as describing tables or indexes	DB_DDL	DISABLED
<input checked="" type="checkbox"/> EAV types and attributes	Entity types declaration cache	EAV	DISABLED
<input checked="" type="checkbox"/> Customer Notification	Customer Notification	CUSTOMER_NOTIFICATION	DISABLED
<input checked="" type="checkbox"/> Page Cache	Full page caching	FPC	DISABLED
<input checked="" type="checkbox"/> Integrations Configuration	Integration configuration file	INTEGRATION	DISABLED
<input checked="" type="checkbox"/> Integrations API Configuration	Integrations API configuration file	INTEGRATION_API_CONFIG	DISABLED
<input checked="" type="checkbox"/> Translations	Translation files	TRANSLATE	DISABLED
<input checked="" type="checkbox"/> Web Services Configuration	REST and SOAP configurations, generated WSDL file	WEBSERVICE	DISABLED

6. In your Magento 2 Admin panel now click on the link 'Sign Out' in the upper right corner





7. Now connect to your server by SSH and got to your Magento 2 installation' root directory
8. Execute the following commands at the command line and wait for them to finish:
 - a. `php bin/magento setup:upgrade`
 - b. optional: `php bin/magento setup:di:compile`
9. Now log back in to the Magento 2 Admin panel
10. Go to: Stores > Configuration. Next to the left menu panel you will see the option ECS under heading: POSTNL > ECS, click on ECS



11. You should see the configuration options for the PostNL ECS extension. If not pls check steps taken and make sure that all steps are followed.
12. If you can see the configuration options, you can now re-enable the caching settings that were disabled during step 5.
13. Installation is finished, now you need to configure the extension.

3.2 Configuration steps

After installing the extension you need to follow the steps described below to enable the integration of your webshop with the PostNL ECS Integrator environment. The configuration of the extension consists of 6 sections:

- General configuration settings
- SFTP server configuration settings
- Product export settings
- Order export settings
- Shipment import settings
- Inventory import settings

A prerequisite for the correct working of the extension is, is that your Magento 2 address settings must be configured to use 3 address lines. You can check and configure this in your Magento 2 Admin panel:



Stores > Configuration, next to the left menu choose Customer Configuration below the Customers heading and choose Name and Address Options. Uncheck Use system value and set Number of Lines in a Street Address to: 3

The screenshot shows the Magento 2 Configuration interface. In the left sidebar, the 'CUSTOMERS' menu item is highlighted, and 'Customer Configuration' is selected. The 'Name and Address Options' section is expanded, showing the 'Number of Lines in a Street Address' set to 3, 'Show Prefix' set to No, and 'Show Middle Name (initial)' set to No. The 'Use system value' checkbox is unchecked.

If this Magento 2 setting is not configured correctly, the extension will show a warning at the General configuration settings section.

3.2.1 General configuration settings

At the General configuration settings you have the option to configure the following settings:

- Enabled
 - This setting will enable or disable the PostNL ECS extension, you can choose from options Yes or No
- Retailer Name
 - This is the Name used by ECS systems and will be provided by PostNL. This Name is also used as identifier in messages exchanged. If the Name configured here does not match with the Name in the messages an error message will be send by email. The value entered is case sensitive!
- Admin Email
 - Here you can provide an email address that will be used to notify and send messages in case of any errors
- Address Line #1
 - Here you can determine the address line configuration that is used so that correct data is send in the order export XML. Default value for Address Line #1 is: Street (= street name)



- Address Line #2
 - Here you can determine the address line configuration that is used so that correct data is send in the order export XML. Default value for Address Line #2 is: House No (= house/street number)
- Address Line #3
 - Here you can determine the address line configuration that is used so that correct data is send in the order export XML. Default value for Address Line #3 is: Annex (= house/street number annex)

The screenshot shows the Magento 2 Configuration interface. On the left is a sidebar with navigation icons for Dashboard, Sales, Products, Customers, Marketing, Content, Reports, Stores (highlighted with a red box), System, and Find Partners & Extensions. The main content area is titled 'Configuration' (also highlighted with a red box) and shows 'Store View: Default Config'. A 'Save Config' button is in the top right. The left sidebar of the configuration panel lists categories: GENERAL, CATALOG, CUSTOMERS, SALES, SERVICES, ADVANCED, and POSTNL (highlighted with a red box). Under POSTNL, the 'ECS' option is selected and highlighted with a red box. The 'General' configuration section (also highlighted with a red box) contains the following settings:

- Enabled: Yes (dropdown)
- Retailer Name: im (text field)
- Admin Email: test@postnl.nl (text field, with a note: 'You will receive letters about any errors occurred')
- Address Line #1: Street (dropdown)
- Address Line #2: House No (dropdown)
- Address Line #3: Annex (dropdown)

Below the General section are expandable sections for 'SFTP Server Settings', 'Products Export', and 'Order Export', each with a collapse icon.

3.2.2 SFTP configuration settings

In this section you can configure the SFTP connection settings. Messages exchanged are uploaded and downloaded by both the Magento 2 PostNL ECS extension and the Integrator at the server configured here. The following configuration settings are available:

- Hostname
 - Here you can configure the value for the SFTP server hostname. This value will be provided by PostNL ECS
- Port
 - Here you can configure the value for the SFTP server connection port. This value will be provided by PostNL ECS. Default value for SFTP connections is: 22
- Username
 - Here you can configure the value for the SFTP server credentials, username. This value will be provided by PostNL ECS.



- Key
 - Here you can configure the value for the SFTP server credentials, key. This value will be provided by PostNL ECS. If the key is provided in a key file, you can open the file with a text editor (i.e. Notepad) and copy the contents of the key file into this key field.
- Key Password
 - Here you can configure the value for the SFTP server credentials, password. This value will be provided by PostNL ECS. This value is optional!

The screenshot displays the Magento 2 configuration interface for the PostNL ECS extension. The left sidebar shows the 'STORES' section selected. The main configuration area is titled 'Configuration' and shows the 'POSTNL' section expanded. Within this section, the 'SFTP Server Settings' are configured as follows:

- Hostname:** sftp-postnlint-accp.xs4.mendix.net (For example, test.example.com or 192.168.1.1)
- Port:** (Empty field, Leave empty for default (22))
- Username:** lbmt
- Key:** PUTTY: User-Key-File-2: ssh-rsa
Encryption: none
Comment: rsa-key-20141010
Public-Lines: 6
AAAAB3NzaC1yc2EAAAABJQAAAQEArhrB/5we9BQZGxKsgl
7TDO6en3iOAwSnaKIF
- Key Password:** (Empty field, Optional)

A 'Save Config' button is located in the top right corner of the configuration area.

If no connection can be made with values entered an error message will be shown and extension will be disabled automatically. If connection settings are valid, the settings will be saved.

3.2.3 Product export settings

In this section you can configure the Product export settings. The following configuration settings are available:

- Enabled
 - This setting will enable or disable the Product export interface, you can choose from options Yes or No
- Path
 - Here you can set the path to the folder where exported order files are uploaded. This value will be provided by PostNL ECS. In case the path entered is invalid or no connection to this path can be made and error message will be shown and the order export interface will be disabled automatically



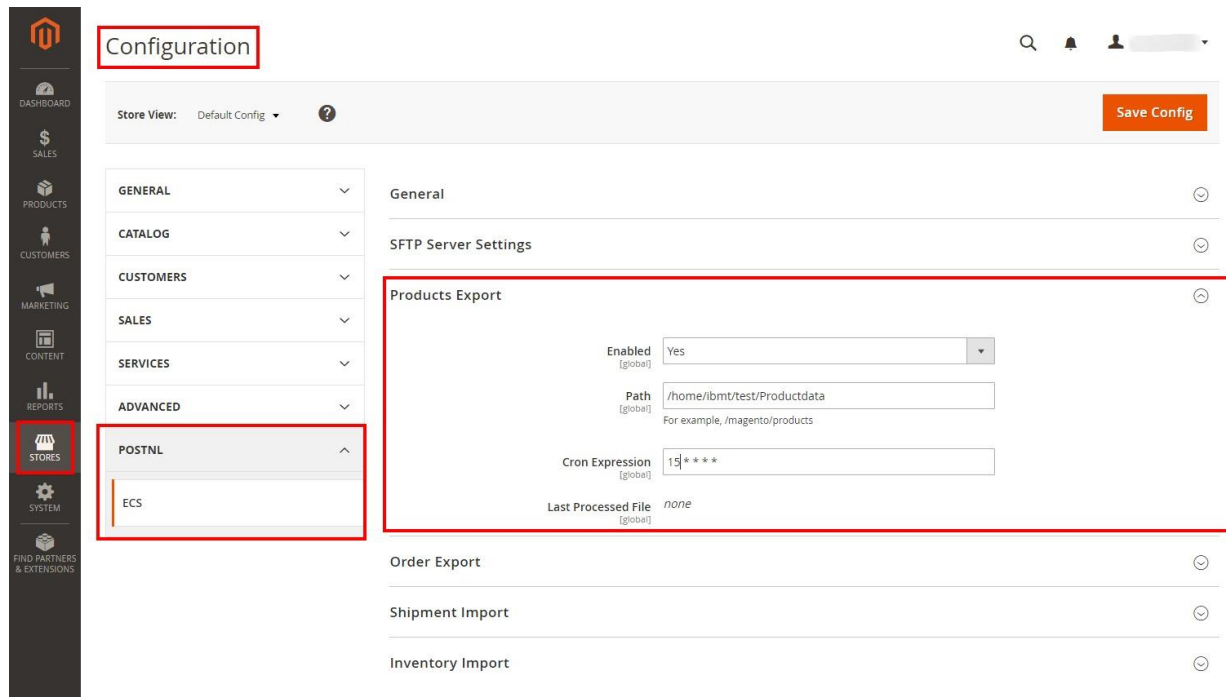
- Cron Expression
 - Here you can set the cron expression. A cron expression determines the schedule for product exports. By setting the desired cron expression you can configure when the export should run. The setting for the schedule will be set to the agreed times with PostNL ECS. Cron setting examples:
 - `* / 5 * * * *`
 - this expression will run the export every 5 minutes:
 - `5 * * * *`
 - this expression will run the export every hour at the 5th minute
 - `* 23 * * *`
 - this expression will run the export every day at 23.00

Cron expression explanation:

```
.----- Minutes (0 - 59)
| .----- Hours (0 - 23)
| | .----- Day of month (1 - 31) or ( )
| | | .----- Month (1 - 12) or ( )
| | | | .---- Day of the week (0 - 6) or ( )
| | | | |
* * * * *
```

For more detailed information about cron expressions:
<https://en.wikipedia.org/wiki/Cron>

Also the last processed file name is shown at this configuration section. The exported files will contain max 500 products per file, if more products are updated or created a new file will be created.



3.2.4 Order export settings

In this section you can configure the Order export settings. The following configuration settings are available:

- **Enabled**
 - This setting will enable or disable the Order export interface, you can choose from options Yes or No
- **Path**
 - Here you can set the path to the folder where exported order files are uploaded. This value will be provided by PostNL ECS. In case the path entered is invalid or no connection to this path can be made and error message will be shown and the order export interface will be disabled automatically
- **Order Status**
 - Here you can select the selection criteria for the to be exported orders. You can set which orders should be exported by selecting the order status. It is a multi-select field, so you can select multiple order states. Any order in Magento 2 with the selected states will be exported
- **Shipping Method**
 - Here you can select the selection criteria for the to be exported orders. You can set which orders should be exported by selecting the shipping method. It is a multi-select field, so you can select multiple shipping methods. Any order in Magento 2 with the selected shipping method will be exported
- **Cron Expression**
 - Here you can set the cron expression. A cron expression determines the schedule for order exports. By setting the desired cron expression you can configure when the export



should run. The setting for the schedule will be set to the agreed times with PostNL ECS.

Cron setting examples:

- `* / 5 * * * *`
 - this expression will run the export every 5 minutes:
- `5 * * * *`
 - this expression will run the export every hour at the 5th minute
- `* 23 * * *`
 - this expression will run the export every day at 23.00

Cron expression explanation:

- `.-----` Minutes (0 - 59)
- `| .-----` Hours (0 - 23)
- `| | .-----` Day of month (1 - 31)
- `| | | .-----` Month (1 - 12)
- `| | | | .----` Day of the week (0 - 6)
- `| | | | |`
- `* * * * *`

For more detailed information about cron expressions:

<https://en.wikipedia.org/wiki/Cron>

Also the last processed file name is shown at this configuration section. The exported files will contain max 100 orders per file, if more orders are exported a new file will be created.



Configuration

Store View: Default Config

Save Config

GENERAL

CATALOG

CUSTOMERS

SALES

SERVICES

ADVANCED

POSTNL

ECS

General

SFTP Server Settings

Products Export

Order Export

Shipment Import

Inventory Import

Enabled

Yes

Path

/home/lbmt/test/Order

For example, /magento/orders

Order Status

-- Please Select --

Pending

Processing

Suspected Fraud

Complete

Closed

Canceled

On Hold

Only orders with selected status(es) will be exported

Shipping Method

Flat Rate

[flatrate] Fixed

Only orders with selected method(s) will be exported

Cron Expression

30 * * * *

Last Processed File

none

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Magento ver. 2.1.2
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3.2.5 Shipment import settings

In this section you can configure the Shipment import settings. The following configuration settings are available:

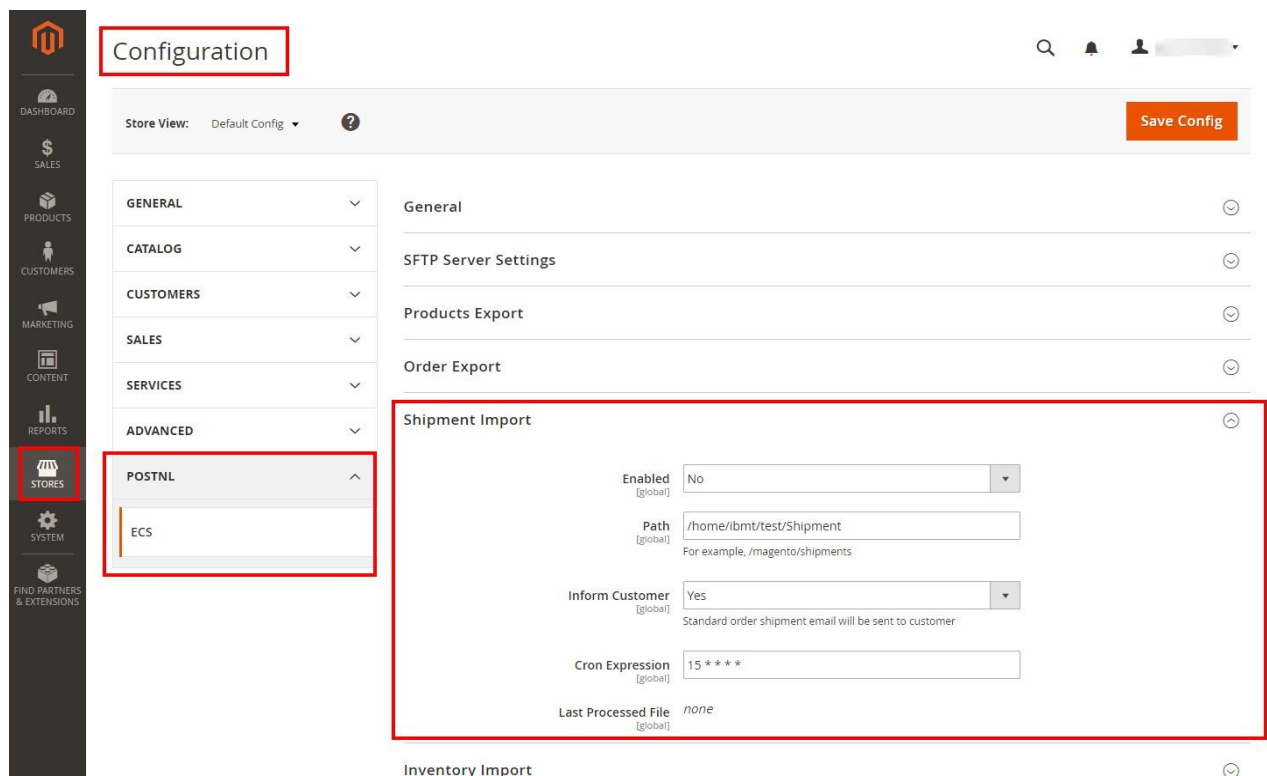
- Enabled
 - This setting will enable or disable the Shipment import interface, you can choose from options Yes or No
- Path
 - Here you can set the path to the folder where shipment files are downloaded from. This value will be provided by PostNL ECS. In case the path entered is invalid or no connection to this path can be made and error message will be shown and the shipment import interface will be disabled automatically
- Inform customer
 - Here you can select if Magento 2 should send the shipment email message to the customer after successful import of shipment message from the PostNL ECS Integrator. The extension follows Magento's default for order process and shipment flow.
- Cron Expression
 - Here you can set the cron expression. A cron expression determines the schedule for shipment imports. By setting the desired cron expression you can configure when the import should run. The setting for the schedule will be set to the agreed times with PostNL ECS. Cron setting examples:
 - `* / 5 * * * *`
 - this expression will run the import every 5 minutes:
 - `5 * * * *`
 - this expression will run the import every hour at the 5th minute
 - `* 23 * * *`
 - this expression will run the import every day at 23.00

Cron expression explanation:

```
.----- Minutes (0 - 59)
| .----- Hours (0 - 23)
| | .----- Day of month (1 - 31) or ()
| | | .----- Month (1 - 12) or ()
| | | | .---- Day of the week (0 - 6) or ()
| | | | |
* * * * *
```

For more detailed information about cron expressions:
<https://en.wikipedia.org/wiki/Cron>

Also the last processed file name is shown at this configuration section.



3.2.6 Inventory import settings

In this section you can configure the Inventory import settings. The following configuration settings are available:

- Enabled
 - This setting will enable or disable the inventory import interface, you can choose from options Yes or No
- Path
 - Here you can set the path to the folder where inventory files are downloaded from. This value will be provided by PostNL ECS. In case the path entered is invalid or no connection to this path can be made and error message will be shown and the inventory import interface will be disabled automatically
- Cron Expression
 - Here you can set the cron expression. A cron expression determines the schedule for inventory imports. By setting the desired cron expression you can configure when the import should run. The setting for the schedule will be set to the agreed times with PostNL ECS. Cron setting examples:
 - `* / 5 * * * *`
 - this expression will run the import every 5 minutes:
 - `5 * * * *`
 - this expression will run the import every hour at the 5th minute
 - `* 23 * * *`
 - this expression will run the import every day at 23.00



Cron expression explanation:

```
.----- Minutes (0 - 59)
| .----- Hours (0 - 23)
| | .----- Day of month (1 - 31) or ()
| | | .----- Month (1 - 12) or ()
| | | | .---- Day of the week (0 - 6) or ()
| | | | |
* * * * *
```

For more detailed information about cron expressions:
<https://en.wikipedia.org/wiki/Cron>

Also the last processed file name is shown at this configuration section.

The screenshot shows the Magento 2 Configuration page. The 'Configuration' tab is selected at the top. On the left sidebar, the 'STORES' section is highlighted. Under 'STORES', the 'POSTNL' store is selected, and the 'ECS' configuration is visible. The 'Inventory Import' section is expanded, showing the following settings:

- Enabled** [global]: No
- Path** [global]: /home/ibmt/test/Stockcount
For example, /magento/inventory
- Cron Expression** [global]: 30 * * * *
- Last Processed File** [global]: none



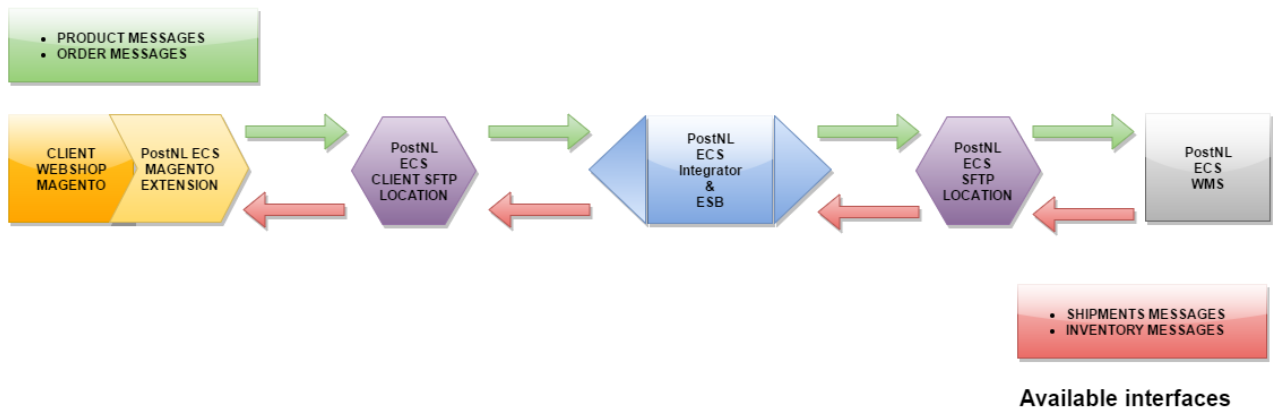
4 Extension message processing

The Magento 2 extension integrates the Magento 2 webshop with the PostNL ECS integrator and processes the configured messages. Below a high level visualization is made of the integration and processes that will run between the systems.

4.1 Process overview

PostNL ECS Magento Extension

Available interfaces



4.2 Product message process

The extension processes products that have been newly created or updated on the Magento 2 webshop. This paragraph will outline the process steps.

The product messages are exported and uploaded on a SFTP server in a XML format as expected by the PostNL ECS Integrator. The ESB downloads the exported products and places them on a location from where the Integrator will import them. After import of these product messages by the Integrator, all product data will be available in the Integrator Portal and products are sent to the PostNL WMS where the product data will be used for order picking and shipment processing.

In case of errors during product export, an e-mail will be sent to the configured address.



4.3 Order message process

The extension processes orders that have been placed on the Magento 2 webshop. This paragraph will outline the process steps.

The orders are exported and uploaded on a SFTP server in a XML format as expected by the PostNL ECS Integrator. The ESB downloads the exported orders and places them on a location from where the Integrator will import them. After import by the Integrator, all Order data will be available in the Integrator Portal and orders are send to the PostNL WMS for order picking and shipment processing.

The extension marks exported orders once upload to SFTP is successful. An overview of all exported orders by the extension is available in a separate grid view that can be found under the following menu item in the Magento 2 Admin Panel: Sales > PostNL ECS

At this grid view it is also possible to use the default Magento 2 export option (CSV) for grid views.

In case of errors during order export, an e-mail will be send to the configured address and with next run of the cron, the export of previously failed orders will be processed again.

4.4 Shipment message process

The extension processes shipment messages received for orders that have been placed on the Magento 2 webshop. This paragraph will outline the process steps.

The Shipment messages are sent from the PostNL WMS to the Integrator once an order has been picked and is shipped. These messages are first downloaded by the ESB and placed on a location from where the



Integrator will import them. After import by the Integrator, all Shipment data will be available in the Integrator Portal. The Integrator will place Shipment messages that have been imported on a SFTP location from where the ESB will pick and place them on the client SFTP location for further processing by the PostNL Magento 2 extension. The extension will download these files and import them to the Magento 2 webshop. After importing the Shipment message, the extension will follow the default Magento process by creating shipments, adding a track and trace number to shipment (and optionally sending shipment email) in Magento 2. Als the order status will be updated.

In case of errors during Shipment import, an e-mail will be send to the configured address and with next run of the cron, the import of previously failed shipments will be processed again.

4.5 Inventory message process

The extension processes inventory messages received for orders that have been placed on the Magento 2 webshop. This paragraph will outline the process steps.

The Inventory messages are sent from the PostNL WMS to the Integrator once an order has been picked and is shipped. These messages are first downloaded by the ESB and placed on a location from where the Integrator will import them. After import by the Integrator, all Inventory data will be available in the Integrator Portal. The Integrator will place Inventory messages that have been imported on a SFTP location from where the ESB will pick and place them on the client SFTP location for further processing by the PostNL Magento extension. The extension will download these files and import them to the Magento 2 webshop. After importing the Inventory message, the extension will follow the default Magento 2 process by updating the inventory quantity value and if configured also disable the product in case the inventory value becomes negative (product is out of stock).

In case of errors during Inventory import, an e-mail will be send to the configured address and with next run of the cron, the import of previously failed inventory messages will be processed again.



5 Appendix 1: XML formats

For the Product, Order, Shipment and Inventory XML messages the next paragraphs will explain the formats used by PostNL ECS in more detail. The extension uses these formats for the messages.

5.1 Product XML

The product XML message contains the products created (or updated) on the client webshop. These will be exported from the Magento 2 webshop by the extension based on the configuration settings. The extension creates batch XML messages, meaning that 1 Product XML message can contain 1 or more products. The product message contains basic information about the product, like product number (SKU), description, measurements and EAN barcode. The product data import in the integrator is the starting point of the chain. In case products are not known in the chain, other interfaces like order and shipment can't be processed. The messages are uploaded to the configured SFTP location.

XML file naming convention:

File name = PRDyyyyymmddhhmmss.xml

(yyyy=year, mm=month, dd=day, hh=hours, mm=minutes, ss=seconds)

Restrictions:

- The file is UTF-8 encoded and without BOM.
- The output of exported files is valid XML
- Special strings are not allowed (< > ; \ ' " & * { [] !).
- Text with superscript or subscript Strings are not allowed (1st, 2nd, 3rd, 4th, 12_{dec}, 14_{oct})
- Only new and updated products are exported
- Mandatory fields always contain data.
- The non-mandatory fields can be empty but the XML tags/nodes are always present. See in example XML below the field vendorItemNo which is empty.

SAMPLE PRODUCT MESSAGE:

[PRD20161127174834.xml]

```
<?xml version="1.0">
<message>
  <type>item</type>
  <messageNo>4318</messageNo>
  <date>2016-11-27</date>
  <time>17:48:34</time>
  <items>
    <item>
      <itemNo>929000893806</itemNo>
      <description>Xitanium 20W/m 0.15-0.5A 48V</description>
      <description2/>
      <unitOfMeasure>ST</unitOfMeasure>
      <height>1</height>
      <width>1</width>
      <depth>1</depth>
      <weight>1</weight>
      <vendorItemNo/>
      <eanNo>871829176663600</eanNo>
    </item>
  </items>
</message>
```



```
<bac>A</bac>
<validFrom/>
<validTo/>
<expiry>>false</expiry>
<adr/>
<active>>true</active>
<lot/>
<sortOrder/>
<minStock/>
<maxStock/>
<retailPrice>17.99</retailPrice>
<purchasePrice>15.99</purchasePrice>
<productType/>
<defaultMasterProduct>>false</defaultMasterProduct>
<hangingStorage>>false</hangingStorage>
<backOrder>>false</backOrder>
<enriched>>true</enriched>
```

```
</item>
```

```
</items>
```

```
</message>
```

ELEMENT	MAX LENGTH	MANDATORY	TYPE	REMARK	EXAMPLE DATA
Message			Tag		
type			String	= 'item'	item
messageNo	5	yes	Integer	Sequence number for the purpose of sequence number control	4318
date		yes	Date	Creation date [yyyy-mm-dd]	2016-11-27
time		yes	Time	Creation time [hh:mm:ss]	17:48:34
items			Tag		
item			Tag		
itemNo	24	yes	String	Article number (SKU)	929000893806
description	35	yes	String	Short description minimal content product name and specification for example colour	Xitanium 20W/m 0.15-0.5A 48V
description2	35	no	String	additional description	
unitOfMeasure	10	yes	String	unit ¹⁾	ST
height	255	yes	Integer	heightof 1 article in cm [minimal1]	1
width	255	yes	Integer	Width of 1 article in cm [minimal 1]	1
depth	255	yes	Integer	Dept of 1 article in cm [minimal 1]	1
weight	255	yes	String	Weightof 1 article in kg [minimal 0,001]	1
vendorItemNo	30	no	String	Article number supplier	124568
eanNo	15	yes	Integer	ean barcode should be unique	871829176663600
bac	255	no	String	code handling code ²⁾	A
validFrom	10	no	Date	Product active date from [yyyy-mm-dd]	2016-11-27



validTo	10	no	Date	Product active date to [yyyy-mm-dd]	2017-11-27
expiry	255	no	String	Indicates if product has an expiry date, true: yes, false: no, default value is false	false
adr	255	no	String	Not used, empty by default	
active	255	yes	String	Indicates if product is active, true: yes, false: no, default value is true	true
lot	255	no	String	Not used, empty by default	
sortOrder		no	String	Not used, empty by default	
minStock		no	Integer	Minimum stock value Product	1
maxStock		no	Integer	Maximum stock value Product	1000
retailPrice		no	Decimal	Product retail price	17.99
purchasePrice		no	Decimal	Product purchase price	15.99
productType	255	no		Not used, empty by default	
defaultMasterProduct	255	no		Not used, default value is false	
hangingStorage	255	no		Not used, default value is false	
backOrder	255	no		Indicates if product can be in backorder if no stock is available, true: yes, false: no, default value is false	
enriched	255	yes		default value is true	
item			Tag		
items			Tag		
message			Tag		

¹⁾UNIT CODES

CODE	DESCRIPTION
ST	piece
EUR	euro pallet

²⁾HANDLING CODES

CODE	DESCRIPTION
A	fast
B	medium
C	slow



5.2 Order XML

The order xml message contains the orders placed on the client webshop. These will be exported from the Magento 2 webshop by the extension based on the configuration set. The extension creates batch XML messages, meaning that 1 Order XML message can contain 1 or more orders. The order message contains information about the customer shipment address data (and optionally invoice address data), orderlines with the article number (SKU) and the ordered quantity of the orderlines. The messages are uploaded to the configured SFTP location.

XML file naming convention:

File name = ORDyyyyymmddhhmmss.xml

(yyyy=year, mm=month, dd=day, hh=hours, mm=minutes, ss=seconds)

Restrictions:

- The file is UTF-8 encoded and without BOM.
- The output of exported files is valid XML
- Special strings are not allowed (< > ; \ ' " & * { [] } !).
- Text with superscript or subscript Strings are not allowed (1st, 2nd, 3rd, 4th, 12_{dec}, 14_{oct})
- Mandatory fields always contain data.
- The non-mandatory fields can be empty but the XML tags/nodes are always present. See in example XML below the field vendorNo which is empty.

SAMPLE ORDER MESSAGE:

[ORD20161123160705.xml]

```
<?xml version="1.0" encoding="UTF-8"?>
<message>
  <type>deliveryOrder</type>
  <messageNo>60</messageNo>
  <date>2016-11-23</date>
  <time>16:07:05</time>
  <deliveryOrders>
    <deliveryOrder>
      <orderNo>ORD01634</orderNo>
      <webOrderNo>ORD01634</webOrderNo>
      <orderDate>2016-11-23</orderDate>
      <orderTime>15:03:25</orderTime>
      <customerNo>1737217</customerNo>
      <onlyHomeAddress>false</onlyHomeAddress>
      <vendorNo/>
      <shipToTitle/>
      <shipToFirstName>Pieter</shipToFirstName>
      <shipToLastName>Post</shipToLastName>
      <shipToCompanyName>PostNL</shipToCompanyName>
      <shipToBuildingName/>
      <shipToDepartment/>
      <shipToFloor/>
      <shipToDoorcode/>
      <shipToStreet>Kaagschip</shipToStreet>
      <shipToHouseNo>14</shipToHouseNo>
      <shipToAnnex>a</shipToAnnex>
    </deliveryOrder>
  </deliveryOrders>
</message>
```



```
<shipToPostalCode>3991 CS</shipToPostalCode>
<shipToCity>Houten</shipToCity>
<shipToCountryCode>NL</shipToCountryCode>
<shipToCountry>Nederland</shipToCountry>
<shipToPhone>012345</shipToPhone>
<shipToStreetHouseNrExt/>
<shipToArea/>
<shipToRegion>Utrecht</shipToRegion>
<shipToRemark/>
<shipToEmail>test@postnl.nl</shipToEmail>
<invoiceToTitle/>
<invoiceToFirstName>Pieter</invoiceToFirstName>
<invoiceToLastName>Post</invoiceToLastName>
<invoiceToCompanyName/>
<invoiceToBuildingName/>
<invoiceToDepartment/>
<invoiceToFloor/>
<invoiceToDoorcode/>
<invoiceToStreet>Kaagschip </invoiceToStreet>
<invoiceToHouseNo>14</invoiceToHouseNo>
<invoiceToAnnex>a</invoiceToAnnex>
<invoiceToPostalCode>3991CS</invoiceToPostalCode>
<invoiceToCity>Houten</invoiceToCity>
<invoiceToCountryCode>NL</invoiceToCountryCode>
<invoiceToCountry> Nederland </invoiceToCountry>
<invoiceToPhone>012345</invoiceToPhone>
<invoiceToStreetHouseNrExt/>
<invoiceToArea/>
<invoiceToRegion>Utrecht</invoiceToRegion>
<invoiceToRemark/>
<invoiceToEmail>test@postnl.nl</invoiceToEmail>
<language>NL</language>
<remboursAmount/>
<shippingAgentCode>03085</shippingAgentCode>
<shipmentType/>
<shipmentProductOption/>
<shipmentOption/>
<receiverDateOfBirth/>
<IDExpiration/>
<IDNumber/>
<IDType/>
<requestedDeliveryDate/>
<requestedDeliveryTime/>
<comment></comment>
<deliveryOrderLines>
  <deliveryOrderLine>
    <itemNo>929000893806</itemNo>
    <itemDescription>Product Name Great Product</itemDescription>
    <quantity>2</quantity>
    <singlePriceInclTax>20.99</singlePriceInclTax>
  </deliveryOrderLine>
  <deliveryOrderLine>
    <itemNo>929000893807</itemNo>
    <itemDescription>Product Name Greater Product</itemDescription>
    <quantity>1</quantity>
```




```

    <singlePriceInclTax>35.99</singlePriceInclTax>
  </deliveryOrderLine>
  <deliveryOrderLine>
    <itemNo>929000893808</itemNo>
    <itemDescription>Product Name Greatest Product</itemDescription>
    <quantity>4</quantity>
    <singlePriceInclTax>50.95</singlePriceInclTax>
  </deliveryOrderLine>
</deliveryOrderLines>
</deliveryOrder>
</deliveryOrders>
</message>
  
```

ELEMENT	LENGTH	MANDATORY	TYPE	REMARK	EXAMPLE DATA
message					
type		yes	String	= 'deliveryOrder'	deliveryOrder
messageNo	255	yes	Integer	Index/sequence number of message	60
date		yes	Date	message creation date [yyyy-mm-dd]	2016-11-23
time		yes	Time	message creation time [hh:mm:ss]	16:07:05
deliveryOrders			Tag		
deliveryOrder			Tag		
orderNo	10	yes	String	order number	ORD01634
webOrderNo	10	yes	String	extra order reference	ORD01634
orderDate		yes	Date	order date [yyyy-mm-dd]	2016-11-23
orderTime		yes	Time	order time [hh:mm:ss]	15:03:25
customerNo	0-40	no	String	customer number	1737217
onlyHomeAddress		yes	String	indicates if it is allowed to deliver package at neighbors, true: no, false: yes default value is false	false
shipToTitle	10	No	String	Title	Mr.
shipToFirstName	30	No	String	First name	Pieter
shipToLastName	1-35	Yes	String	Last name	Post
shipToCompanyName	35	No	String	Company Name	Postnl ECS
shipToBuildingName	35	No	String	Building Name	Block A
shipToDepartment	35	No	String	Department	IT
shipToFloor	35	No	String	Floor	2
shipToDoorcode	35	No	String	Doorcode	A-1342
shipToStreet*	1-35	Yes	String	Street	Kaagschip
*For NL/BE the restriction is 35 Strings for the rest of the world this field may have 95 Characters					
shipToHouseNo**	1-5	Yes	Integer	Housenumber	14
** Only mandatory for NL/BE for Rest of the world not necessary					
shipToAnnex	30	No	String	House number annex	a



shipToPostalCode	1-10	Yes	String	Zipcode	3991CS
shipToCity	1-30	Yes	String	City	Houten
shipToCountryCode	2	Yes	String	ISO2 Country CODE (NL, BE)	NL
shipToPhone	1-17	Yes	String	Phone number (default 0)	0612312344
shipToStreetHouseNrExt	100	No	String	Option for one address street, housenr.	Kaagschip 14 a
Note: the shipToStreetHouseNrExt field can be used for delivering the address data or the fields: shipToStreet, shipToHouseNo and shipToAnnex can be used. You have to choose, you cannot use both.					
shipToArea	35	No	String	Area	Business park De Meerpaal
shipToRegion	35	No	String	Region	Utrecht
shipToRemark	35	No	String	Remark for transport	Use the second door to the left
shipToEmail	0-50	No	String	Email sender	test@postnl.nl
Note: the invoice tags are not mandatory but when they are provided in the XML the following fielddefinitions and restrictions are applicable.					
invoiceToTitle	10	No	String	Title	Mr.
invoiceToFirstName	35	No	String	First name	Pieter
invoiceToLastName	1-35	Yes	String	Last name	Post
invoiceToCompanyName	35	No	String	Company Name	PostNL ECS
invoiceToBuildingName	35	No	String	Building Name	De Groene Toren
invoiceToDepartment	35	No	String	Department	Finance
invoiceToFloor	35	No	String	Floor	10th
invoiceToDoorcode	35	No	String	Doorcode	B1
invoiceToStreet	1-35	Yes	String	Street	Kaagschip
*For NL/BE the restriction is 35 Strings for the rest of the world this field may have 95 Characters					
invoiceToHouseNo	1-5	Yes	Integer	Housenumber	14
* Only mandatory for NL/BE for Rest of the world not necessary					
invoiceToAnnex	30	No	String	Housenumber annex	a
invoiceToPostalCode	10	Yes	String	Zipcode	3991CS
invoiceToCity	30	Yes	String	City	Houten
invoiceToCountryCode	2	Yes	String	ISO2 Country code (NL, BE)	NL
invoiceToPhone	15	Yes	String	Phone number (default 0)	0612312344
invoiceToStreetHouseNrExt	100	No	String	Option for one address street, housenr.	Kaagschip 14 a
Note: the invoiceToStreetHouseNrExt field can be used for delivering the address data or the fields: invoiceToStreet, invoiceToHouseNo and invoiceToAnnex can be used. You have to choose, you cannot use both.					
invoiceToArea	35	No	String	Area	Centrum
invoiceToRegion	35	No	String	Region	Zuid-Holland



invoiceToRemark	35	No	String	Remark for invoice	
invoiceToEmail	50	No	String	Email	test@postnl.nl
Language	2	Yes	String	Language (NL)	NL
remboursAmount	5	No	Decimal	Order Amount in case Rembours delivery	120.00
shippingAgentCode	5	Yes	String	Carrier ³⁾	03085
shipmentType***	35	No	String	Type of goods description for customs	Commercial Goods
*** Allowed values: Gift, Documents, Commercial Goods, Commercial Sample, Returned Goods					
shipmentProductOption ¹	10	No	String	Delivery product option code	118
shipmentOption ¹	10	No	String	Delivery option code	006
receiverDateOfBirth ²		No	Date:	Date Of Birth [yyyy-mm-dd]	1970-05-17
IDExpiration ²		No	Date:	ID Expiration date [yyyy-mm-dd]	2017-03-24
IDNumber ²	15	No	String	ID Number	KYNB7P9F1
IDType ²	2	No	string	Type / Sort ID	01
requestedDeliveryDate		No	Date	Planned date delivery [yyyy-mm-dd]	2016-11-29
requestedDeliveryTime		No	String	Delivery time [hh:mm:ss]	18:30:00
Comment	255	No	String	comment	Thank you
deliveryOrderLines			Tag		
deliveryOrderLine			Tag		
itemNo	1-24	Yes	String	Article number	929000893806
itemDescription	255	No	String	Description article name (can be different in case of multilanguage)	
quantity	5	Yes	Integer	quantity	2
singlePriceInclTax		No	Decimal	Article single price	20.99
deliveryOrderLine			Tag		
deliveryOrderLines			Tag		
Message			Tag		

(1) shipmentProductOption

Shipment Product Options are a part of the order XML for correct delivery:

- shippingAgentCode (mandatory field)
- shipmentProductOption (optional field)
- shipmentOption (optional field)

A combination of these three fields will handle the right delivery process within the fulfillment process.



Below is a selection of the different delivery methods that PostNL ECS supports and which should be provided by the customer within the order XML. Customers can use the different delivery methods depending of the commercial agreements a customer has with PostNL ECS.

Delivery method	shippingAgentCode	shipmentProductOption	ShipmentOption
PostNL Standard Shipment	03085		
PostNL Signature on delivery + Deliver to stated address only	03089		
PostNL Signature on delivery	03189		
PostNL Deliver to stated address only	03385		
PostNL Signature on delivery + Return when not home	03389		
PostNL Deliver to stated address only + Return when not home	03390		

Delivery Method Morning Delivery	shippingAgentCode	shipmentProductOption	ShipmentOption
PostNL Morning delivery on working days before 10 am - Standard Shipment	03085	118	007
PostNL Morning delivery on working days before 10 am - Signature on delivery + Deliver to stated address only	03089	118	007
PostNL Morning delivery on working days before 10 am - Delivery to neighbour + Return when not home	03090	118	007
PostNL Morning delivery on working days before 10 am - Signature on delivery + Deliver to stated address only + Return when not home	03096	118	007
PostNL Morning delivery on working days before 10 am - Signature on delivery	03189	118	007
PostNL Morning delivery on working days before 10 am - Deliver to stated address only	03385	118	007
PostNL Morning delivery on working days before 10 am - Signature on delivery + Return when not home	03389	118	007
PostNL Morning delivery on working days before 10 am - Deliver to stated address only + Return when not home	03390	118	007
PostNL Morning delivery on working days before 12 am - Standaard Zending	03085	118	008



PostNL Morning delivery on working days before 12 am - Signature on delivery + Deliver to stated address only	03089	118	008
PostNL Morning delivery on working days before 12 am - Delivery to neighbour + Return when not home	03090	118	008
PostNL Morning delivery on working days before 12 am - Signature on delivery + Deliver to stated address only + Return when not home	03096	118	008
PostNL Morning delivery on working days before 12 am - Signature on delivery	03189	118	008
PostNL Morning delivery on working days before 12 am - Deliver to stated address only	03385	118	008
PostNL Morning delivery on working days before 12 am - Signature on delivery + Return when not home	03389	118	008
PostNL Morning delivery on working days before 12 am - Deliver to stated address only + Return when not home	03390	118	008

Delivery Method Evening delivery	shippingAgentCode	shipmentProductOption	ShipmentOption
PostNL evening delivery - COD	03086	118	006
PostNL evening delivery - Signature on delivery + Deliver to stated address only	03089	118	006
PostNL evening delivery - COD + Extra cover	03091	118	006
PostNL evening delivery - COD + Return when not home	03093	118	006
PostNL evening delivery - Signature on delivery + Deliver to stated address only + Return when not home	03096	118	006
PostNL evening delivery - COD + Extra cover + Return when not home	03097	118	006
PostNL evening delivery - Deliver to stated address only	03385	118	006
PostNL evening delivery - Deliver to stated address only + Return when not home	03390	118	006

Delivery Method Sunday Delivery	shippingAgentCode	shipmentProductOption	ShipmentOption
PostNL Sunday Delivery - Signature on delivery + Deliver to stated address only	03089	101	008



PostNL Sunday Delivery - Signature on delivery + Deliver to stated address only + Return when not home	03096	101	008
PostNL Sunday Delivery - Deliver to stated address only	03385	101	008
PostNL Sunday Delivery - Deliver to stated address only + Return when not home	03390	101	008

Delivery Method ID Check at the door	shippingAgentCode	shipmentProductOption	ShipmentOption
PostNL Parcel with age check	03438	002	012
PostNL Parcel with ID check (based on date of birth)	03440	002	016
PostNL Parcel with ID check (based on ID-number)	03442	002	014
PostNL Letter with ID check (based on date of birth)	01178	002	016
PostNL Letter with age check	01179	002	012
PostNL Letter with ID check (based on ID-number)	01180	002	014

(2) Delivery Method with ID check codes

This delivery method offers you the ability to make sure that confidential and age-validation transactions can be secure. If you have some product(s) where identification or age control is required, it is possible to let the delivering party to check the ID at the door. There are three possibilities:

- Age validation
- ID validation (based on date of birth)
- ID validation (based on ID-number)

In case of ID Check the field IDType and one of the following shipment option codes needs to be send in the order xml.

- IDExpiration (ShipmentOption = 012 of 014)
- IDNumber (ShipmentOption = 012 of 014)
- receiverDateOfBirth (ShipmentOption = 016)

IDType codes	Remark
01	= Dutch residence document
02	= Dutch ID
02	= Dutch passport
04	= Dutch driving licence
05	= European ID
07	= Foreign ID

For all delivery methods that are part of morning, evening and Sunday delivery the field requestedDeliveryDate is mandatory when one of these methods are used. The customer must give a valid date with the order xml. PostNL has a webservice check available which can be used to retrieve a



valid delivery date before creating order. For details regarding the webservices please contact PostNL or check: <https://developer.postnl.nl/>.

5.3 Shipment XML

Once an order is picked in the PostNL ECS warehouse and it is shipped, a XML message is send from the PostNL ECS warehouse management system, the Integrator and back to the webshop with information about the shipped items and shipped quantities along with the order number and a track and trace code for the shipment. An order can be picked and shipped partially, in this kind of scenario also multiple XML shipment messages can be send for a single order. In case an item cannot be shipped the quantity for that item will have the value 0 in the shipment message. The messages are downloaded by the extension and processed from the configured SFTP location.

XML file naming convention:

File name = 00000034_im_Shipment_yyyymmddhhmm.xml
(yyyy=year, mm=month, dd=day, hh=hours, mm=minutes)
00000034 = index/sequence number of message
im = Retailer identifier
Shipment = type of message

Restrictions:

- The file is UTF-8 encoded and without BOM.
- The file is valid XML.
- Mandatory fields always contain data.
- The non-mandatory fields can be empty but the XML tags/nodes are always present.

Pls find below the sample shipment XML message, in red you can find the tags/noded with data that is important for the webshop for import and that is processed by the extension.

SAMPLE SHIPMENT MESSAGE:

[00000034_im_Shipment_201610111344.xml]

```
<?xml version="1.0" encoding="UTF-8"?>
<message>
  <type>orderStatus</type>
  <messageNo>0000034</messageNo>
  <date>2016-11-27</date>
  <time>18:32:01</time>
  <retailerName>im</retailerName>
  <orderStatus>
    <orderNo>ORD01649</orderNo>
    <reference nil="true"/>
    <trackAndTraceCode>3SYTYM0003251</trackAndTraceCode>
    <deliveryMode nil="true"/>
    <orderDate>2016-11-26</orderDate>
    <orderTime>09:53:50</orderTime>
    <postcode>3991CS</postcode>
    <huisnummer>14</huisnummer>
    <toevoeging nil="true"/>
  </orderStatus>
</message>
```



```
<shipDate>2016-11-27</shipDate>
<shipTime>18:00:00</shipTime>
<orderStatusLines>
  <orderStatusLine>
    <itemNo>929000712303</itemNo>
    <quantity>2</quantity>
  </orderStatusLine>
</orderStatusLines>
</orderStatus>
</message>
```

ELEMENT	MANDATORY	TYPE	REMARK	EXAMPLE DATA
message		Tag		
type	yes	String	= orderStatus	orderStatus
messageNo	yes	Integer	index/sequence number of message	0000034
date	yes	Date	message creation date [yyyy-mm-dd]	2016-11-27
time	yes	Time	message creation time [hh:mm:ss]	18:32:01
retailerName	yes	String	default value will be provided	im
orderStatus		Tag		
orderNo	yes	String	order number	ORD01649
reference	no			
trackAndTraceCode	yes	String	track and trace code	3SYTYM0003251
Deliverymode	no			
orderDate	yes		order date	2016-11-26
orderTime	yes		order time	09:53:50
postcode	yes		postcode	3991CS
huisnummer	yes		street number	14
toevoeging	no		street annex/addition	A
shipDate	yes	Date	shipping date [yyyy-mm-dd]	2016-11-27
shipTime	yes	Time	shipping time [hh:mm:ss]	18:00:00
orderStatusLines		Tag		
orderStatusLine		Tag		
itemNo	yes	String	article/item number (SKU)	929000712303
quantity	yes	Integer	shipped quantity	2
orderStatusLine		Tag		
orderStatusLines		Tag		
orderStatus		Tag		
Message		Tag		

5.4 Inventory update XML

Periodically (daily snapshot) the PostNL ECS warehouse management system will send information about the inventory. These inventory XML messages contain information about physical stock quantities of the items in the warehouse at a certain moment in time. The messages are downloaded by the extension and processed from the configured SFTP location.



The information that is important for the webshop is the physical stock quantity and the article/item ID, the extension uses this data to update the inventory data in the Magento 2 webshop. It follows the default Magento 2 configuration, if inventory in Magento is enabled by the default Magento 2 configuration, it will set a product offline if an item is out of stock.

XML file naming convention:

File name = 00000068_im_StockUpdateAll_yyyymmddhhmm.xml
 (yyyy=year, mm=month, dd=day, hh=hours, mm=minutes)

Restrictions:

- The file is UTF-8 encoded and without BOM.
- The file is valid XML.
- Mandatory fields always contain data.
- The non-mandatory fields can be empty but the XML tags/nodes are always present.

Pls find below the sample stock XML message, in red you can find the tags/noded with data that is important for the webshop for import and that is processed by the extension.

SAMPLE STOCK MESSAGE:

[00000068_im_StockUpdateAll_2016101114222.xml]

```
<?xml version="1.0" encoding="UTF-8"?>
<Stockcountupdates>
  <messageNo>68</messageNo>
  <Stockupdate>
    <stockdtl_itemnum>929000702202</stockdtl_itemnum>
    <stockdtl_stckstatus>31</stockdtl_stckstatus>
    <stockdtl_fysstock>47</stockdtl_fysstock>
  </Stockupdate>
  <Stockupdate>
    <stockdtl_itemnum>929000212732</stockdtl_itemnum>
    <stockdtl_stckstatus>31</stockdtl_stckstatus>
    <stockdtl_fysstock>30</stockdtl_fysstock>
  </Stockupdate>
  <Stockupdate>
    <stockdtl_itemnum>929000212302</stockdtl_itemnum>
    <stockdtl_stckstatus>31</stockdtl_stckstatus>
    <stockdtl_fysstock>5</stockdtl_fysstock>
  </Stockupdate>
  <Stockupdate>
    <stockdtl_itemnum>929000211302</stockdtl_itemnum>
    <stockdtl_stckstatus>31</stockdtl_stckstatus>
    <stockdtl_fysstock>5</stockdtl_fysstock>
  </Stockupdate>
</Stockcountupdates>
```

ELEMENT	MANDATORY	TYPE	REMARK	EXAMPLE DATA
Stockcountupdates		Tag		
messageNo	yes	Integer	index/sequence number of message	4
Stockupdate		Tag		
Stockdtl_itemnum	yes	String	article/item number (SKU)	929000212732
Stockdtl_stckstatus	yes	Integer	stock status code	31



Stockdtl_fysstock	yes	Integer	physical stock quantity of item	30
Stockupdate		Tag		
Stockcountupdates		Tag		

6 Appendix 2: Customization

The PostNL extension is provided as a tool to help integration of the client webshop to the PostNL ECS fulfilment systems. The extension will work out-of-the-box on a default installation of Magento 2. In most cases it will be required to modify and customize the code of the extension to meet your requirements. PostNL does not provide customizations services but does allow customization and provides the source code of the extension. The only requirement of PostNL is that the required XML formats are kept in place and are generated according to the format and data described in chapter 5. Some common customizations are described in this chapter

6.1 Providing the correct shipping method codes

When multiple PostNL delivery options will be used it is necessary to extend the ECS plugin order export functionality to send the correct delivery option codes in the exported XML. The code that creates and exports the XML file can be found in the file at this location of the ECS plugin:

`/app/code/Postnl/Ecs/Model/Processor/Order.php`

You can extend this file and implement the required logic to provide the data within the exported XML. It is required that the correct codes are saved within the webshop on the order object of Magento. When retrieving the order the shippingmethod will be available so that the correct codes can be printed when exporting the XML file. Once the codes are retrieved they need to be printed on the order export XML on the following XML nodes:

- shippingAgentCode
- shipmentProductOption
- shipmentOption

See also chapter 5.2 for more details about the format and available codes. Below are some examples on how to extend the XML and provide correct codes.

Provide following data in XML in case the delivery/shipment method option chosen is Standard/Default shipment with signature:

```
<shippingAgentCode>03089</shippingAgentCode>
<shipmentProductOption/>
<shipmentOption/>
```

Provide following data in XML in case the delivery/shipment method option chosen is Standard/Default shipment with signature and early morning delivery (before 10.00 am):

```
<shippingAgentCode>03089</shippingAgentCode>
<shipmentProductOption>118</shipmentProductOption>
<shipmentOption>007</shipmentOption>
```



Provide following data in XML in case the delivery/shipment method option chosen is Standard/Default shipment with signature and morning delivery (before 12.00 am):

```
<shippingAgentCode>03089</shippingAgentCode>
<shipmentProductOption>118</shipmentProductOption>
<shipmentOption>008</shipmentOption>
```

Provide following data in XML in case the delivery/shipment method option chosen is Standard/Default shipment with signature and evening delivery:

```
<shippingAgentCode>03089</shippingAgentCode>
<shipmentProductOption>118</shipmentProductOption>
<shipmentOption>006</shipmentOption>
```

6.2 Changing the amount of exported orders and products in a single XML file

The extension exports by default the orders and products in a batch XML file. This means that an exported XML file in case of order export, can have multiple orders in a single XML file and in case of product export it can have multiple products in a single XML file. The default setting for these exports is that for orders the maximum size is set to 100 orders per XML file and in case of products it is set to 500 products per XML file. If required this can be customized in the extension code in the following files:

```
app\code\Postnl\Ecs\Model\Product.php
app\code\Postnl\Ecs\Model\Resource\Order.php
```

It is recommended that you do not exceed the default max setting, however setting it to a lower value is fine. Many of our clients prefer 1 order and 1 product per single XML file and set the value to 1 in both files.

6.3 Adding data/attributes to the product export XML

By default in the product export XML the extension outputs a correct XML format and mandatory data. Not all possible fields in the XML are used. If you need to add data to the XML and start using unused fields you can do this easily by adding the attributes in Magento and adding values for these attributes at product level. If we take the field eanNo in the XML as an example, this field is getting the Product SKU value by default because it is mandatory in the XML. However if you have correct EAN codes available in your product data you can export them with the XML by adding the attribute to the product with its EAN code value. To do this in Magento you first need to create the attribute in Magento and assign the attribute code as follows: ean_no, the default label can be named as you wish. Once you have added this attribute the Product Export of the ECS extension will export any value (printed in the XML for field eanNo) for the products for which you have entered a value in this product attribute. Another example is the field vendorItemNo, to export a value in this field you need to create an attribute with the code: vendor_item_no.



7 Appendix 3: license agreement

PostNL ECS provides the extension based on the following EULA.

7.1 PostNL ECS extension EULA

THIS LICENSE AGREEMENT (HEREINAFTER AGREEMENT) IS AN AGREEMENT BETWEEN YOU (THE PERSON OR COMPANY WHO IS BEING LICENSED TO USE THE SOFTWARE OR DOCUMENTATION) AND PostNL ECS (HEREINAFTER WE/US/OUR). THE AGREEMENT APPLIES TO ALL PRODUCTS/SOFTWARE/SCRIPTS/SERVICES YOU PURCHASE/ACQUIRE FROM US.

1. By purchasing/acquiring the Software you acknowledge that you have read this Agreement, and that you agree to the content of the Agreement and its terms, and agree to use the Software in compliance with this Agreement.
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5. You may not use any part of the code in whole or part in any other software or product or website.
6. You may not give, sell, distribute, sub-license, rent, lease or lend any portion of the Software or Documentation to anyone. You may not place the Software on a server so that it is accessible via a public network such as the Internet for distribution purposes.
7. You are bound to preserve the copyright information intact.
8. We reserve the right to publish a selected list of users of our Software.
9. We will not be liable to you for any damages (including any loss of profits/saving, or incidental or consequential) caused to you, your



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11. If you fail to use the Software in accordance with the terms and conditions of this License Agreement, it constitutes a breach of the agreement, and your license to use the program is revoked.
12. PostNL ECS reserves the right to change this license agreement at any time and impose its clauses at any given time.
13. License agreement remains effective until terminated. We retain the right to terminate your license to use the Software at any time, if in its sole discretion, you are not abiding by the terms of the Agreement, including, but not limited to, obscuring or removing any link or copyright notice as specified in this agreement. You may terminate it at any time by destroying all copies of the Software. Termination of this Agreement does not bind us to return you the amount spent for purchase of the Software.
14. If you continue to use the Software after PostNL ECS gives you notice of termination of your license, you hereby agree to accept an injunction to enjoin you from its further use and to pay all costs (including but not limited to reasonable attorney fees) to enforce our revocation of your license and any damages suffered by us because of your misuse of the Software.
15. This software is designed for Magento 2 and does not guarantee correct work of this plugin on any other Magento version except the stated Magento 2 version. PostNL ECS does not provide plugin support in case of incorrect version usage.
16. Support period will be defined in accordance with the plan selected during the purchase or as agreed with PostNL ECS. Within the given period you will be eligible to receive software updates as well as technical support.



8 Appendix 3: Extension package

The extension package contains the following folders and files:

app\code

app\code\Postnl\Ecs\composer.json
app\code\Postnl\Ecs\Exception.php
app\code\Postnl\Ecs\registration.php

app\code\Postnl\Ecs\Block\Adminhtml\Order.php
app\code\Postnl\Ecs\Block\Adminhtml\System\Config>Last\Order.php
app\code\Postnl\Ecs\Block\Adminhtml\System\Config>Last\Product.php
app\code\Postnl\Ecs\Block\Adminhtml\System\Config>Last\Shipment.php
app\code\Postnl\Ecs\Block\Adminhtml\System\Config>Last\Stock.php

app\code\Postnl\Ecs\Controller\Adminhtml\Order.php
app\code\Postnl\Ecs\Controller\Adminhtml\Order\Export.php
app\code\Postnl\Ecs\Controller\Adminhtml\Order\Grid.php
app\code\Postnl\Ecs\Controller\Adminhtml\Order\Index.php

app\code\Postnl\Ecs\Cron\Common.php
app\code\Postnl\Ecs\Cron\Order.php
app\code\Postnl\Ecs\Cron\Product.php
app\code\Postnl\Ecs\Cron\Shipment.php
app\code\Postnl\Ecs\Cron\Stock.php

app\code\Postnl\Ecs\etc\acl.xml
app\code\Postnl\Ecs\etc\adminhtml
app\code\Postnl\Ecs\etc\config.xml
app\code\Postnl\Ecs\etc\crontab.xml
app\code\Postnl\Ecs\etc\module.xml
app\code\Postnl\Ecs\etc\adminhtml\events.xml
app\code\Postnl\Ecs\etc\adminhtml\menu.xml
app\code\Postnl\Ecs\etc\adminhtml\routes.xml
app\code\Postnl\Ecs\etc\adminhtml\system.xml

app\code\Postnl\Ecs\Helper\Config.php
app\code\Postnl\Ecs\Helper\Data.php

app\code\Postnl\Ecs\Model\Order.php
app\code\Postnl\Ecs\Model\Processor
app\code\Postnl\Ecs\Model\Product
app\code\Postnl\Ecs\Model\Product.php
app\code\Postnl\Ecs\Model\Resource
app\code\Postnl\Ecs\Model\Shipment
app\code\Postnl\Ecs\Model\Shipment.php
app\code\Postnl\Ecs\Model\Stock.php

app\code\Postnl\Ecs\Model\Observer\CheckServerSettings.php



app\code\Postnl\Ecs\Model\Order\Row.php

app\code\Postnl\Ecs\Model\Processor\Common.php
app\code\Postnl\Ecs\Model\Processor\Order.php
app\code\Postnl\Ecs\Model\Processor\Product.php
app\code\Postnl\Ecs\Model\Processor\Shipment.php
app\code\Postnl\Ecs\Model\Processor\Stock.php

app\code\Postnl\Ecs\Model\Product\Dirty.php
app\code\Postnl\Ecs\Model\Product\Row.php

app\code\Postnl\Ecs\Model\Resource\Order.php
app\code\Postnl\Ecs\Model\Resource\Product.php
app\code\Postnl\Ecs\Model\Resource\Shipment.php
app\code\Postnl\Ecs\Model\Resource\Stock.php

app\code\Postnl\Ecs\Model\Resource\Order\Collection.php
app\code\Postnl\Ecs\Model\Resource\Order\Row.php
app\code\Postnl\Ecs\Model\Resource\Order\Row\Collection.php

app\code\Postnl\Ecs\Model\Resource\Product\Collection.php
app\code\Postnl\Ecs\Model\Resource\Product\Dirty.php
app\code\Postnl\Ecs\Model\Resource\Product\Row.php
app\code\Postnl\Ecs\Model\Resource\Product\Dirty\Collection.php
app\code\Postnl\Ecs\Model\Resource\Product\Row\Collection.php

app\code\Postnl\Ecs\Model\Resource\Shipment\Collection.php
app\code\Postnl\Ecs\Model\Resource\Shipment\Row.php
app\code\Postnl\Ecs\Model\Resource\Shipment\Row\Collection.php

app\code\Postnl\Ecs\Model\Resource\Stock\Collection.php
app\code\Postnl\Ecs\Model\Resource\Stock\Row.php
app\code\Postnl\Ecs\Model\Resource\Stock\Item\Collection.php
app\code\Postnl\Ecs\Model\Resource\Stock\Row\Collection.php

app\code\Postnl\Ecs\Model\Shipment\Row.php
app\code\Postnl\Ecs\Model\Stock\Row.php

app\code\Postnl\Ecs\Model\System\Config\Source\Address.php

app\code\Postnl\Ecs\Setup\InstallSchema.php
app\code\Postnl\Ecs\Setup\UpgradeSchema.php

app\code\Postnl\Ecs\view\adminhtml\layout\postnlecs_order_export.xml
app\code\Postnl\Ecs\view\adminhtml\layout\postnlecs_order_grid.xml
app\code\Postnl\Ecs\view\adminhtml\layout\postnlecs_order_grid_params.xml
app\code\Postnl\Ecs\view\adminhtml\layout\postnlecs_order_index.xml