
Tryton Prestashop Integration Documentation

Release 3.4.5.1

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November 24, 2016

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Installing trytond-prestashop module

The steps below describe the process of installing the module on a tryton instance.

1.1 Installation of dependencies

This module depends on a python module called `pystashop`. Pystashop is installed automatically while installing trytond-prestashop. It can also be installed separately by running:

```
pip install pystashop
```

1.2 Installation from source code

1. The module source is available online and can be downloaded from [here](#).
2. The module can be downloaded as a *zip* or can be *cloned* by running

```
git clone https://github.com/openlabs/trytond-prestashop.git
```

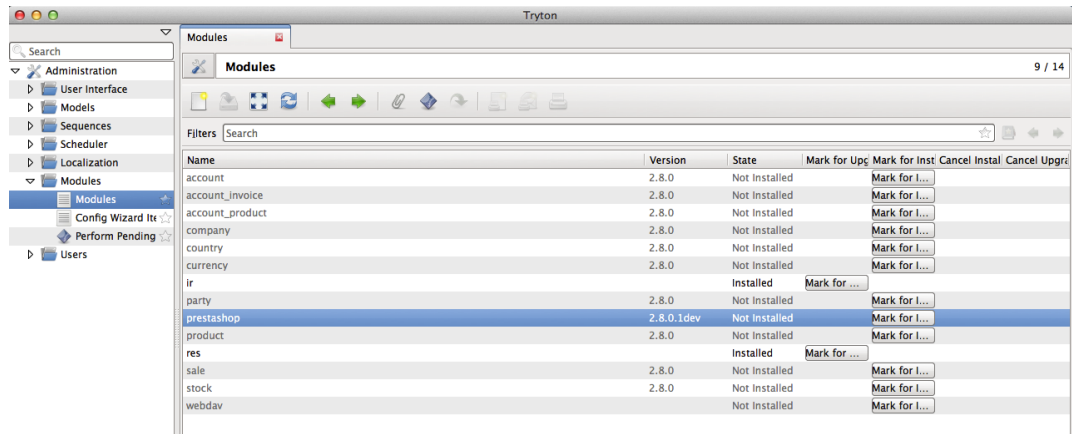
3. If the module is downloaded as a zip, extract the module which will give a directory.
4. From the module directory, use the `setup.py` script with the command:

```
python setup.py install
```

5. The command above makes the module available for use by tryton server instance in a database.
6. The module can be installed in a tryton database by following to menu:

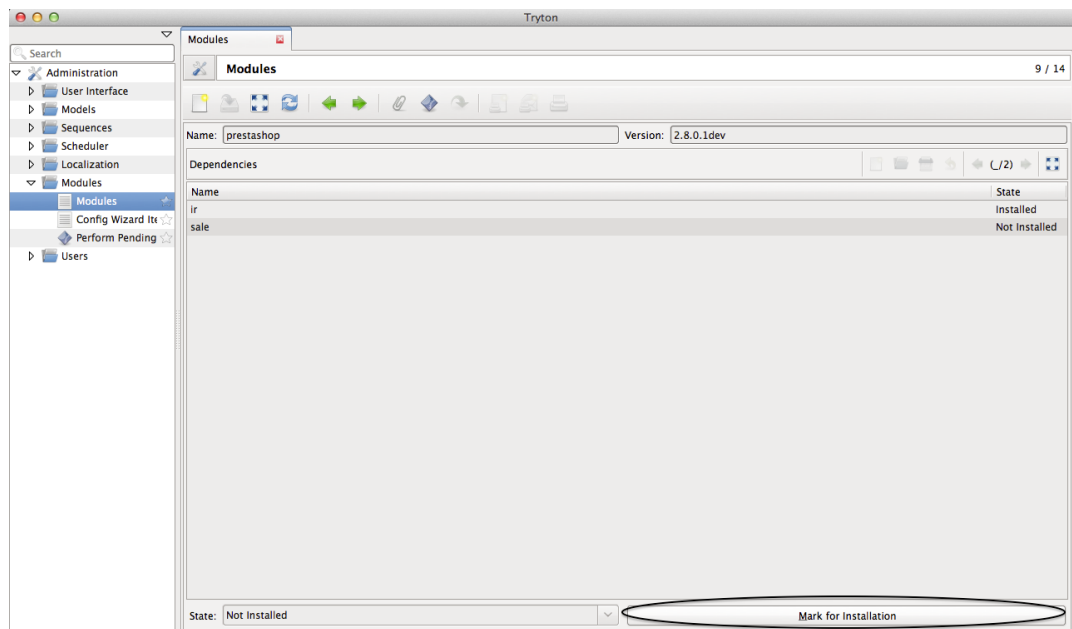
```
Administration > Modules > Modules
```

7. This should show the modules list screen as below:

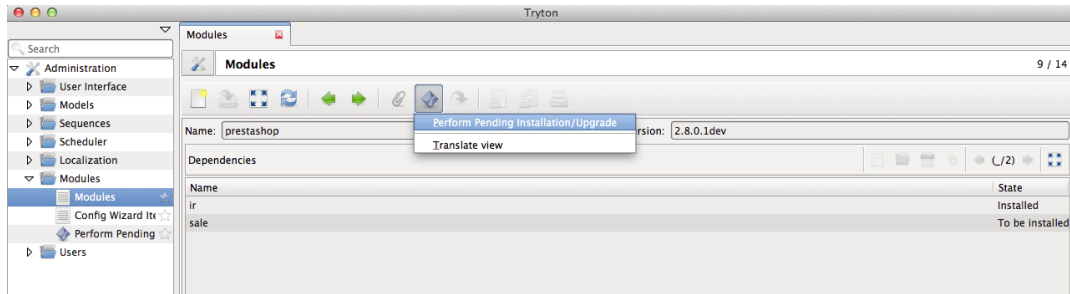


8. Install the module as shown below:

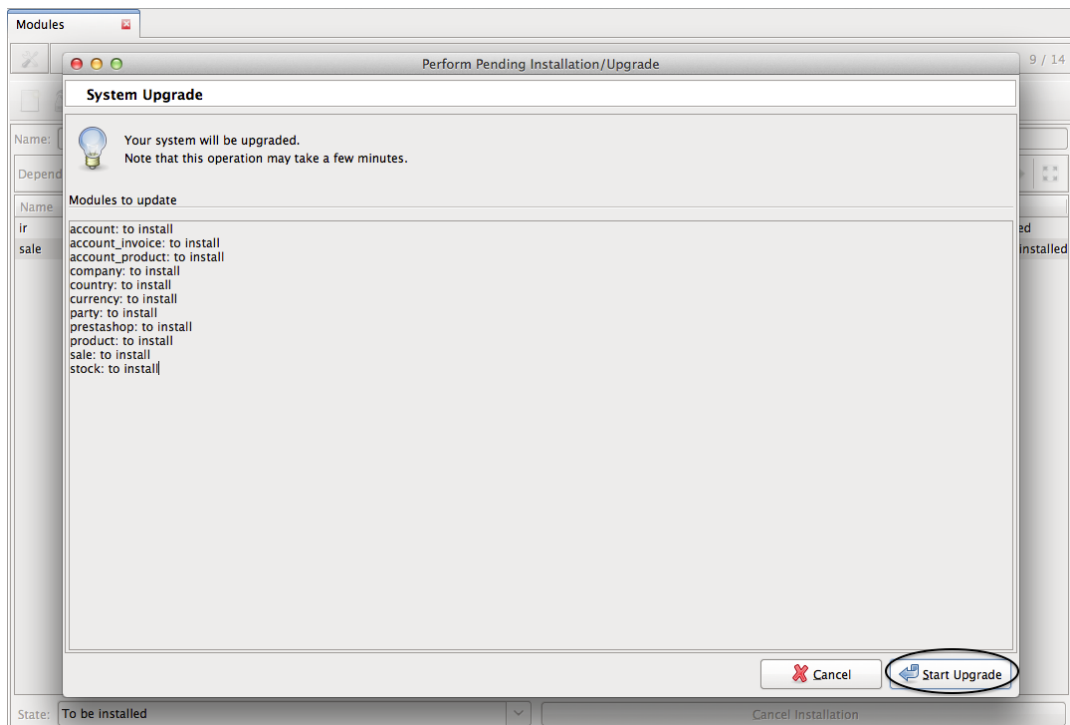
Step 1



Step 2



Step 3



1.3 Installation from PYPI

1. The module can simply be installed by running the command:

```
pip install trytond-prestashop
```

2. The above command will install the latest available and released version of the module. To install the module for a specific version of tryton, run the following commands:

```
pip install "trytond-prestashop==`<version>`"
```

```
pip install "trytond-prestashop>=`<lower version>`,`<`<higher version>`"
```

Configure Prestashop account

Configuring Prestashop settings

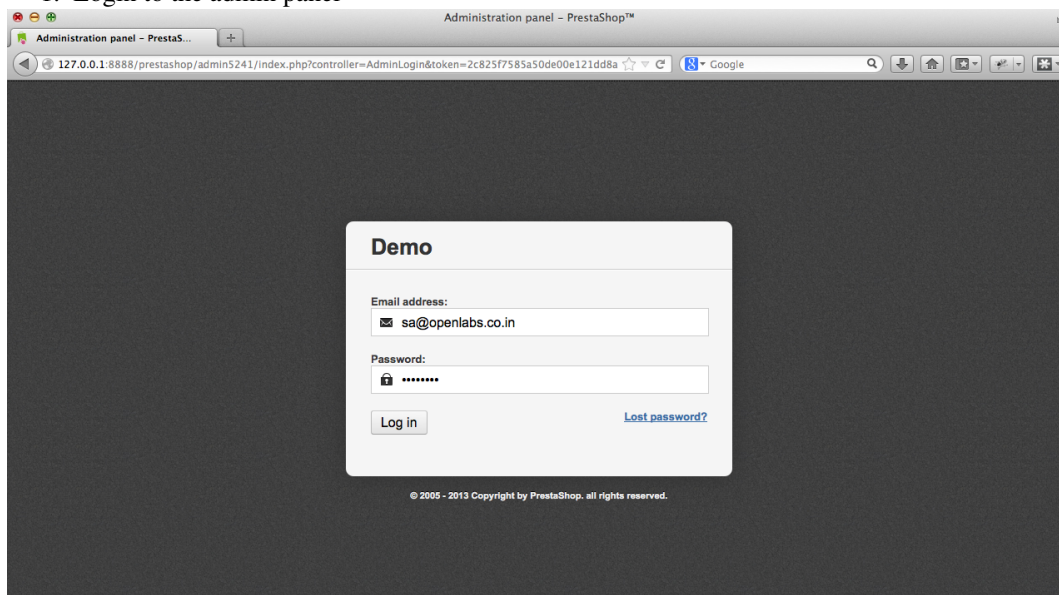
The module should be configured with the URL of the Prestashop instance. A web services authentication key should also be provided.

2.1 Configure Prestashop account

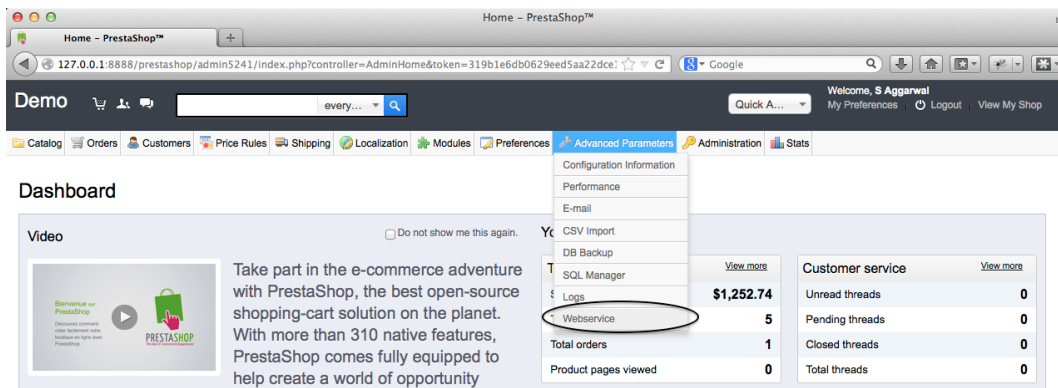
2.2 Create Webservices Key

The web services key can be obtained/created from the prestashop admin panel.

1. Login to the admin panel

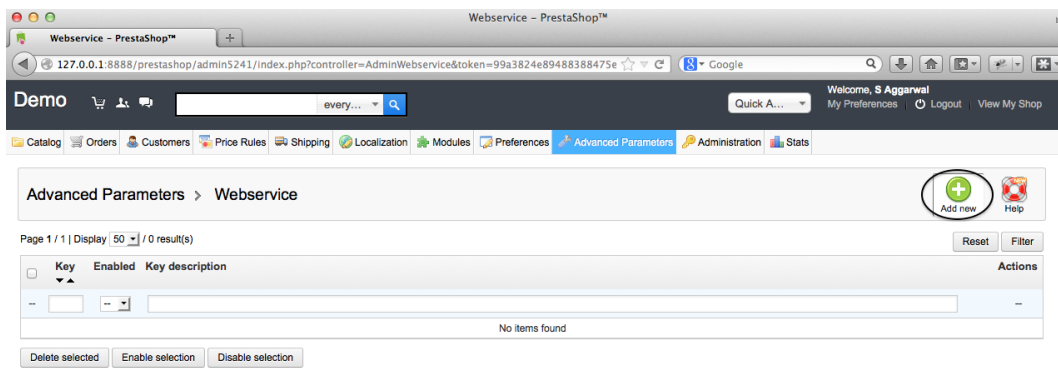


2. Go to webservices configuration via Advanced parameters

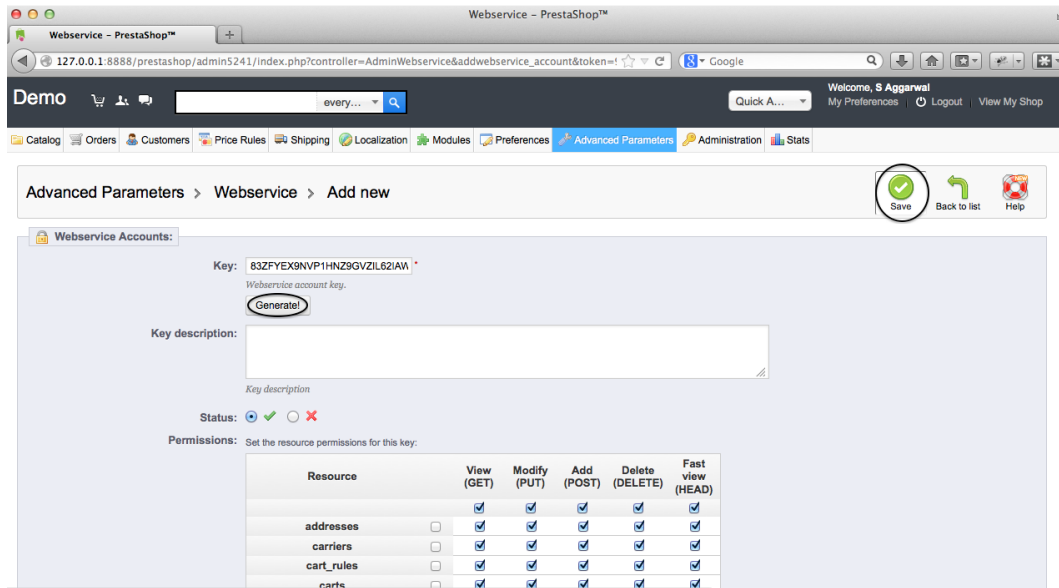


3. A new key can be generated as shown below:

Step 1



Step 2

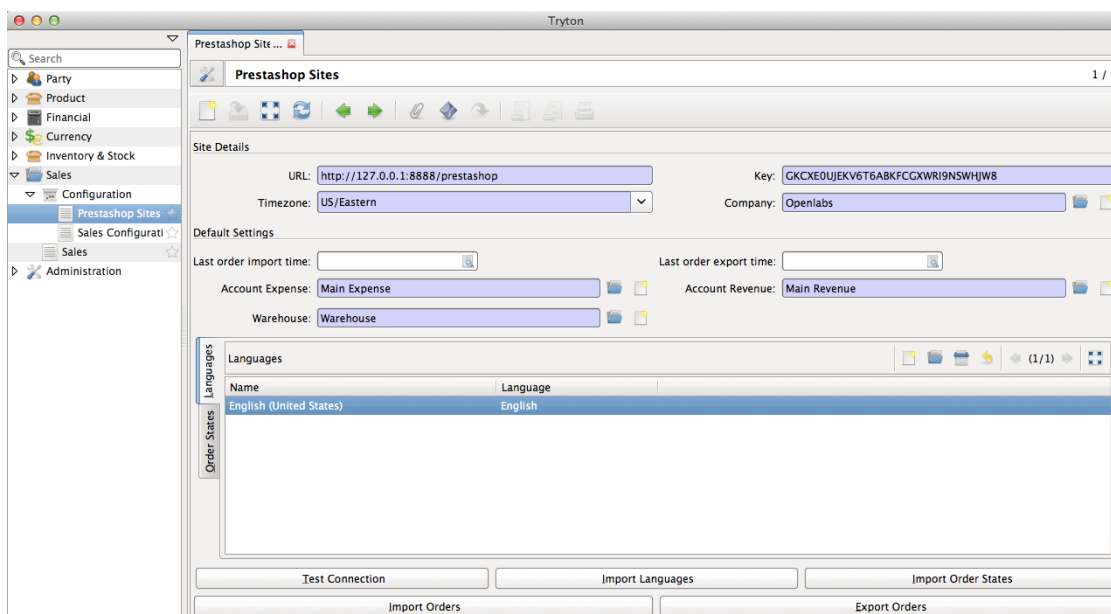


Tip: Generate a random key for better security, instead of typing a key by yourself.

4. Make sure you set the required permissions for this key to access appropriate records.

2.3 Configure Settings in Tryton

Menu: Sale > Configuration > Prestashop Sites



Tip: Click *Test Connection* button to make sure the url and key entered are correct and are able to access the prestashop instance.

2.4 Configuring Languages and Order States

Before proceeding with the import and export of orders, the languages and order states must be mapped.

1. Click the *Import Languages* button to import all languages from prestashop to tryton. The system will try to intelligently match the languages on Tryton with the languages imported. Although it can always be configured as per the needs of the user.

Note: Prestashop stores language codes in two formats, i.e., ISO 6391 2 character codes and IETF language tags where the ISO 6391 2 character code can be combined with the ISO 3166-1 country 2 character code via hyphen(-). The default language codes used by prestashop does not seem to adhere to any of the above though. We take into consideration the IETF language tags based codes from prestashop and match with tryton.

In short, the *Language Code* field on language settings for each language should have the value in the form *<2 character ISO Code>-<2 character ISO country code>*. For example, United States English becomes en-US and Great Britain English becomes en-GB. Similarly, French from France becomes fr-FR and Portuguese from Brazil becomes pt-BR

2. Click the *Import Order States* button to import all order states from prestashop to tryton. The system will map some of the default states with a predefined logic as explained below. Although it can always be configured as per the needs of the user.

Prestashop State(s)	Tryton State
Shipped / Delivered	Shipment Sent
Canceled	Sale Canceled
Payment accepted / Payment remotely accepted / Preparation in progress /	Sale Processing
Any other state	Sale Confirmed

2.5 Understanding the Tryton States

1. **Shipment Sent:** The sale in tryton will have a shipment created which will be completely processed and marked as sent.
2. **Sale Canceled:** Sale is canceled and cannot be processed further.
3. **Sale Processing:** The sale will have a shipment and an invoice but both will be left open for the user to process.
4. **Sale Confirmed:** Sale is in confirmed state with no shipment and invoice associated.

Note: The Order States can only be imported only after languages are imported.

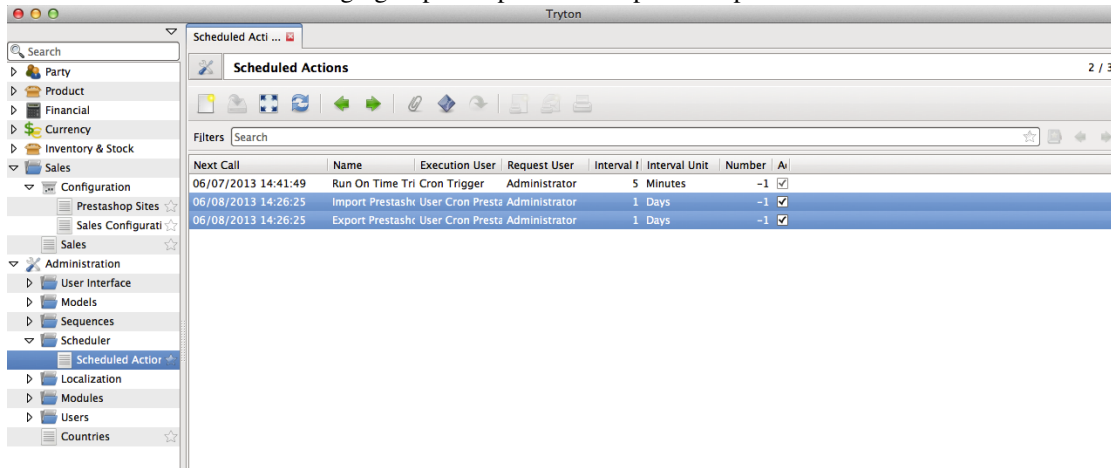
Tip: *Last order import time* indicates the last time at which the orders were last imported from Prestashop to Tryton.

Tip: *Last order export time* indicates the last time at which the orders were last exported from Tryton to Prestashop.

2.6 Cron for importing orders from Prestashop

Learn how to access and deal with crons.

There are two crons from managing import/export from/to prestashop.



Name	Function
<i>Import Prestashop Orders</i>	Periodically imports orders from prestashop and creates sale orders in Tryton.
<i>Export Prestashop Orders' Status</i>	Periodically exports status for sales which were imported by the first cron.

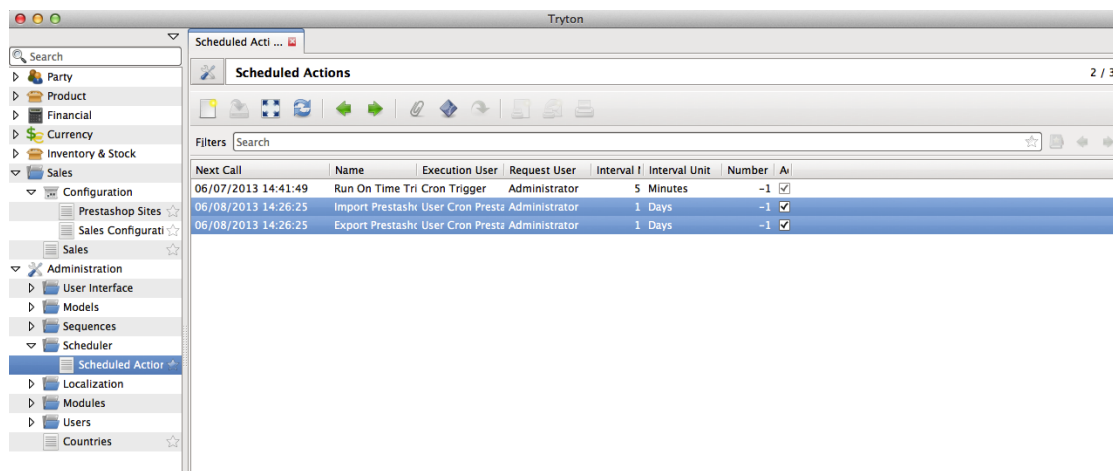
Tip: You need not change the time here to make a quick manual import. You could go back into *configuration* and click on the Import button instead. Same concept applies for export as well.

Tip: If the time of import/export just does not seem right to you, check your timezone in the preferences. Tryton displays times in the timezone set in the preferences of the user.

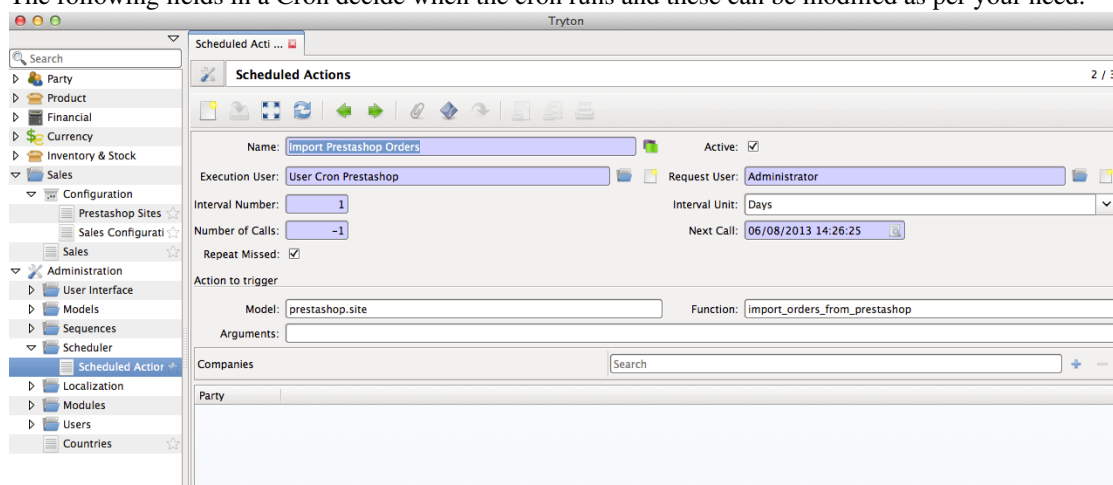
Dealing with Tryton Crons

3.1 Accessing Crons

Menu: Administration > Scheduler > Scheduled Actions



The following fields in a Cron decide when the cron runs and these can be modified as per your need.



- **Interval Number and Interval Unit:** These fields together make up the interval duration of this cron. By default, it is set to *1 Day*. This means that the cron runs once in a day. You could increase or decrease the frequency by changing *Interval Number*, *Interval Unit*.
- **Next Call:** Indicates the date and time in which the cron will run the next time. You could change this time if you want to prepone or delay the execution of cron.

How it works

This section explains how the import and export of orders between Tryton and Prestashop works.

Note: All the data represented below is demo data and is only for demonstration purposes.

4.1 Orders are imported as Sales

Orders placed in Prestashop are imported in Tryton. This is periodically done by the Tryton CRON system. The default interval between two imports is a day, but the interval *can be modified* to your requirements.

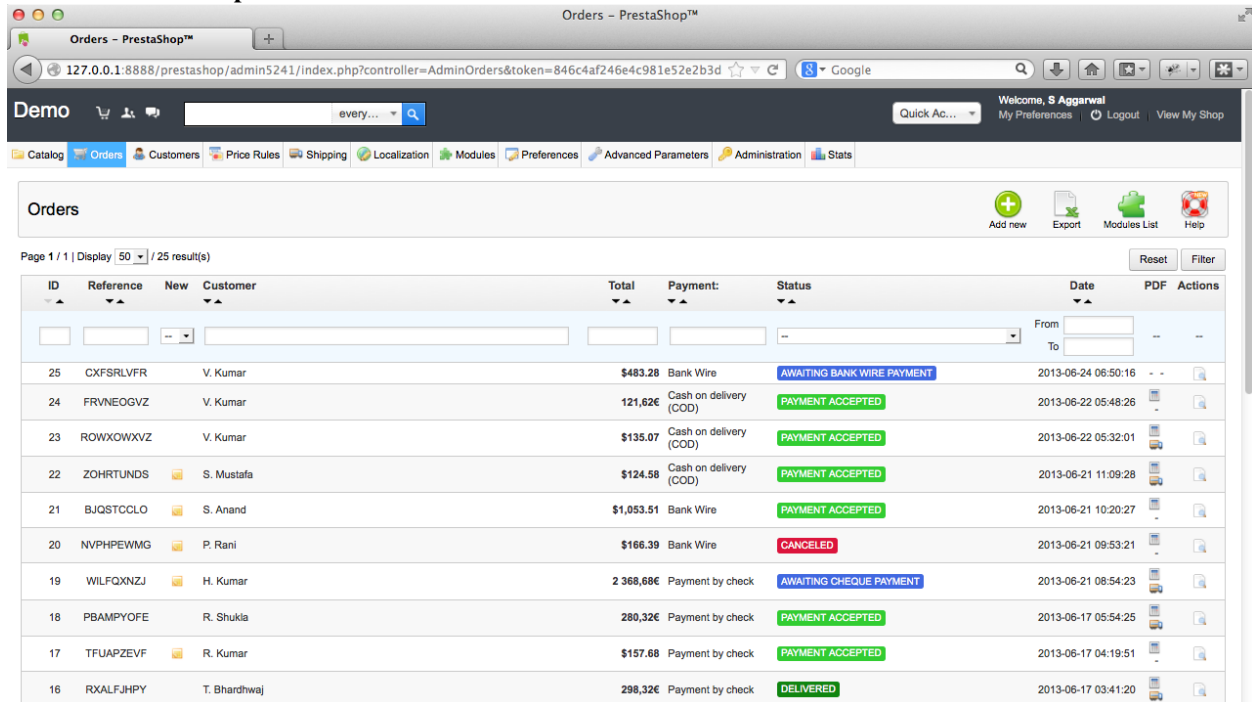
An order in prestashop has a number of entities related and they are imported in tryton as described below:

- The Order is imported as a Sale. The sale in tryton can be identified by the reference which will be same as the order reference in prestashop. Internally the matching is done using the ID of the order as returned by prestashop.
- The Customer who placed the order is imported as Party. If the customer already exists in Tryton, then the same customer(party) is linked with the order.
- The invoice and shipping addresses specified by the customer while placing the order are imported as addresses, and assigned to the sale order's billing and shipment addresses. If these addresses exist in Tryton, then the same addresses are used else new address(es) for the Party is(are) created.
- The product lines, i.e., the products bought in the order by the customer are imported as Sale lines. The product in each of these lines is created as product in tryton, if it does not already exist.
- Discount on order is imported as a sale line in tryton with negative value.
- Shipping is imported as a sale line in tryton with the price as the shipping value on order in prestashop.
- Taxes are imported as taxes in tryton with the same details as on prestashop and then are linked to the tax lines on the product [TODO]
- The state of an order from prestashop to tryton is imported as:
 - If the order in prestashop is paid and shipped, it will be imported in tryton as a *done* order with all the processes already done. To achieve this, the order's invoicing method and shipping method are set to manual and no invoice or shipment is created.
 - If the order in prestashop is paid but not shipped, it will be imported in tryton as *processing* with invoicing being done but not shipped.

- If the order in prestashop is neither paid nor shipped, it will be imported as *confirmed* with no invoice and no shipment.

Note: When the order import happens next time, the status of the orders in *processing* and *confirmed* state in tryton in tryton will be updated if there is a change in state on Prestashop. [TODO]

Orders in Prestashop



The screenshot shows the Prestashop Admin interface for the 'Orders' section. The top navigation bar includes links for Catalog, Orders, Customers, Price Rules, Shipping, Localization, Modules, Preferences, Advanced Parameters, Administration, and Stats. The 'Orders' section is active, displaying a list of orders. The table has columns for ID, Reference, New, Customer, Total, Payment, Status, Date, PDF, and Actions. The orders are listed in descending order of date. The status of each order is highlighted in a colored box: 'AWAITING BANK WIRE PAYMENT' (blue), 'PAYMENT ACCEPTED' (green), and 'CANCELED' (red). The 'DELIVERED' status is also present for the most recent order.

ID	Reference	New	Customer	Total	Payment	Status	Date	PDF	Actions
25	CXFSRLVFR		V. Kumar	\$483.28	Bank Wire	AWAITING BANK WIRE PAYMENT	2013-06-24 06:50:16		
24	FRVNEOGVZ		V. Kumar	121,62€	Cash on delivery (COD)	PAYMENT ACCEPTED	2013-06-22 05:48:26		
23	ROWXOWXVZ		V. Kumar	\$135.07	Cash on delivery (COD)	PAYMENT ACCEPTED	2013-06-22 05:32:01		
22	ZOHRUNDS		S. Mustafa	\$124.58	Cash on delivery (COD)	PAYMENT ACCEPTED	2013-06-21 11:09:28		
21	BJQSTCCLO		S. Anand	\$1,053.51	Bank Wire	PAYMENT ACCEPTED	2013-06-21 10:20:27		
20	NVPHPEWMG		P. Rani	\$166.39	Bank Wire	CANCELED	2013-06-21 09:53:21		
19	WILFQXNZJ		H. Kumar	2 368,68€	Payment by check	AWAITING CHEQUE PAYMENT	2013-06-21 08:54:23		
18	PBAMPYOFE		R. Shukla	280,32€	Payment by check	PAYMENT ACCEPTED	2013-06-17 05:54:25		
17	TFUAPZEVF		R. Kumar	\$157.68	Payment by check	PAYMENT ACCEPTED	2013-06-17 04:19:51		
16	RXALFJHPY		T. Bhardhwaj	298,32€	Payment by check	DELIVERED	2013-06-17 03:41:20		

Orders imported as Sales in Tryton

Menu: Sales > Sales

Reference	Sale Date	Party	Warehouse	Currency	Untaxed	Total	State	Invoice State	Shipment Stat	Description
25	06/24/2013	Varun Kumar	Warehouse	US Dollar	483.28	483.28	Confirmed	None	None	CXFSRLVFR
24	06/22/2013	Varun Kumar	Warehouse	Euro	121.62	121.62	Processing	Waiting	None	FRVNEOGVZ
23	06/22/2013	Varun Kumar	Warehouse	US Dollar	135.07	135.07	Processing	Waiting	None	ROWXOWXVZ
22	06/21/2013	SR Mustafa	Warehouse	US Dollar	124.58	124.58	Processing	Waiting	None	ZOHRUNTUNDS
21	06/21/2013	Simi Anand	Warehouse	US Dollar	1,053.51	1,053.51	Processing	Waiting	None	BJQSTCCLO
20	06/21/2013	Priyanka Rani	Warehouse	US Dollar	166.39	166.39	Canceled	None	None	NVPHPEWMG
19	06/21/2013	Himansh Kumar	Warehouse	Euro	2,368.68	2,368.68	Confirmed	None	None	WLFQKNZJ
18	06/17/2013	Rahul Shukla	Warehouse	Euro	280.32	280.32	Processing	Waiting	None	PBAMPYOFE
17	06/17/2013	Ricky Kumar	Warehouse	US Dollar	157.68	157.68	Processing	Waiting	None	TFUAPZEVF
16	06/17/2013	Tarun Bhardhwa	Warehouse	Euro	298.32	298.32	Done	None	None	RXALFJHPY
15	06/17/2013	Ricky pawar	Warehouse	Euro	1,411.70	1,411.70	Done	None	None	BCEOPZCEA
14	06/17/2013	Tarun Bhardhwa	Warehouse	Euro	300.48	300.48	Processing	Waiting	None	ZZATBOKGB
13	06/17/2013	Tarun Bhardhwa	Warehouse	US Dollar	622.90	622.90	Done	None	None	ENTZCTIOM
12	06/17/2013	Tarun Bhardhwa	Warehouse	Euro	12,642.16	12,642.16	Done	None	None	BABKRYJNB
11	06/15/2013	Rohit Pawar	Warehouse	US Dollar	35,119.10	35,119.10	Done	None	None	JKRLTEGHG
10	06/15/2013	Rohit Pawar	Warehouse	US Dollar	31,607.19	31,607.19	Processing	Waiting	None	TJECMQQGA
9	06/15/2013	Rahul Shukla	Warehouse	US Dollar	560.61	560.61	Done	None	None	ZADIUYDDQ
8	06/15/2013	Rahul Shukla	Warehouse	US Dollar	499.17	499.17	Done	None	None	NOANTHYFW
7	06/11/2013	Test Customer	Warehouse	US Dollar	168.39	168.39	Confirmed	None	None	TUBGAIAOG
6	06/11/2013	Test Customer	Warehouse	US Dollar	561.07	561.07	Confirmed	None	None	GVEPGJYSE
5	06/11/2013	Test Customer	Warehouse	US Dollar	318.14	318.14	Confirmed	None	None	NFJTGNFVU
4	06/10/2013	John DOE	Warehouse	US Dollar	50.08	50.08	Processing	Waiting	None	XHWZUQLSI

Order View in Prestashop

Order #6 (GVEPGJYSE) - Test Customer

Shipping address: Home - Street 1 55416 Minnetonka Minnesota, United States - Change

Invoice address: Home - Street 1 55416 Minnetonka Minnesota, United States - Change

Products:

Product	Unit Price *	Qty	Available quantity	Total *	Action
iPod Nano - Color : Black, Disk space : 16GB Ref: demo_1	\$158.07	2	0	\$316.14	
iPod Nano - Color : Orange, Disk space : 8GB Ref: demo_1	\$118.35	1	9	\$118.35	
Shure SE210 Sound-Isolating Earphones for iPod and iPhone Ref: demo_7	\$124.58	1	1	\$124.58	

* For this customer group, prices are displayed as: tax excluded.

Merchandise returns are disabled

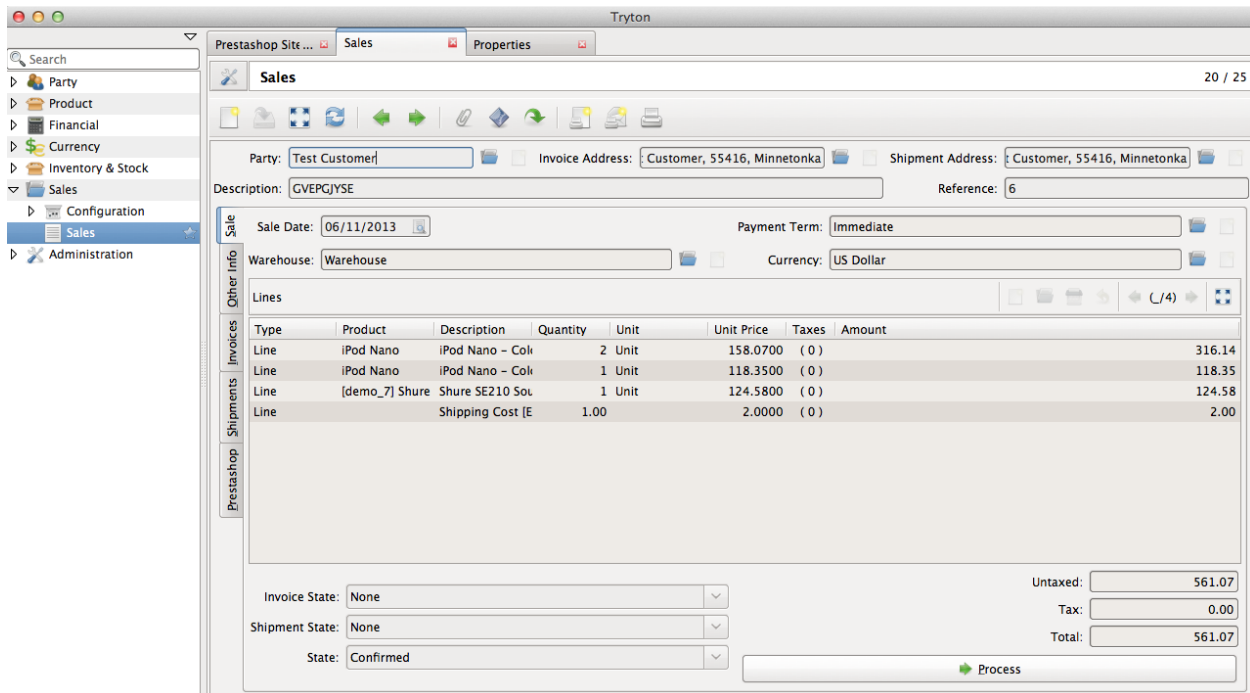
Summary:

Products:	\$559.07
Shipping:	\$2.00
Total	\$561.07

Discounts:

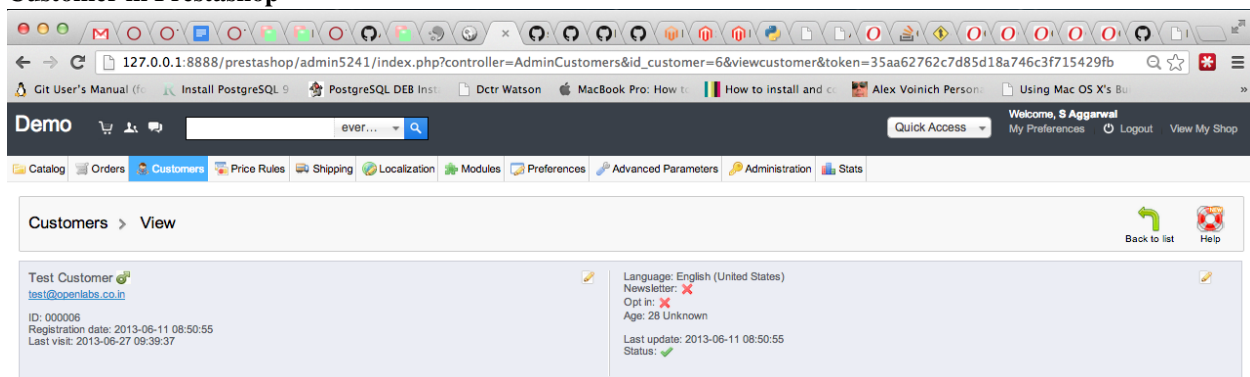
Discount name	Value	Action
Add a new discount		

Sale in Tryton

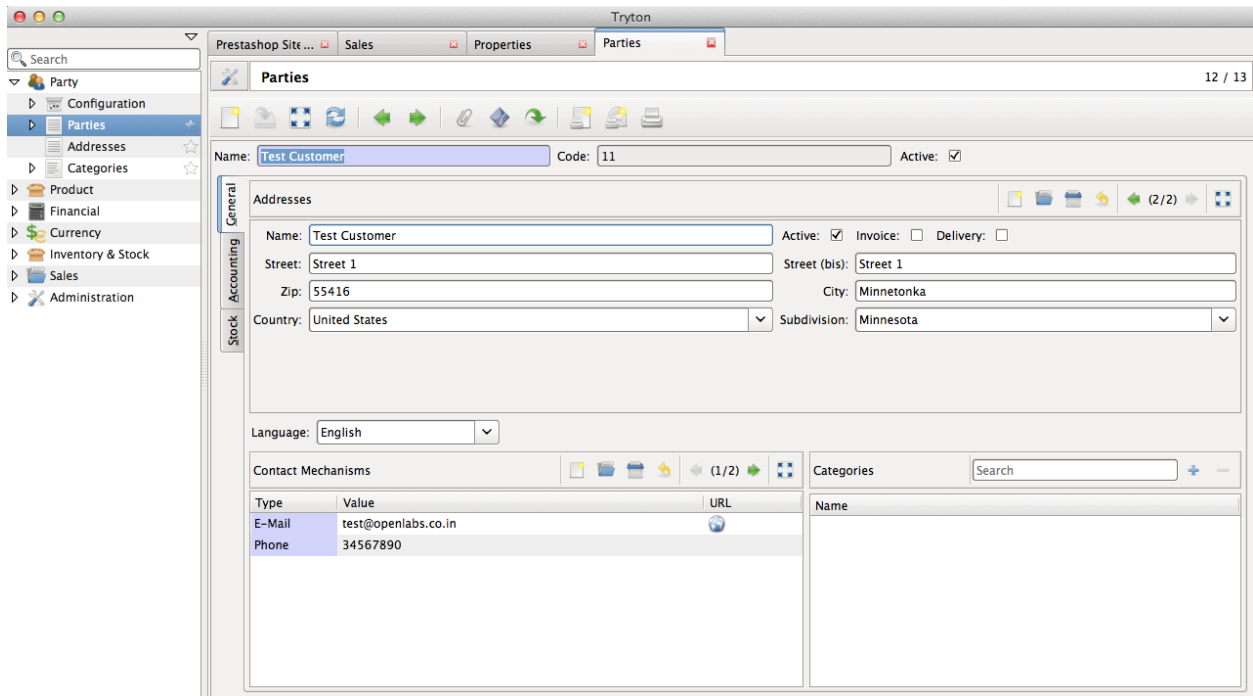


This import will also create/update parties and products corresponding to customer and products in the order on prestashop.

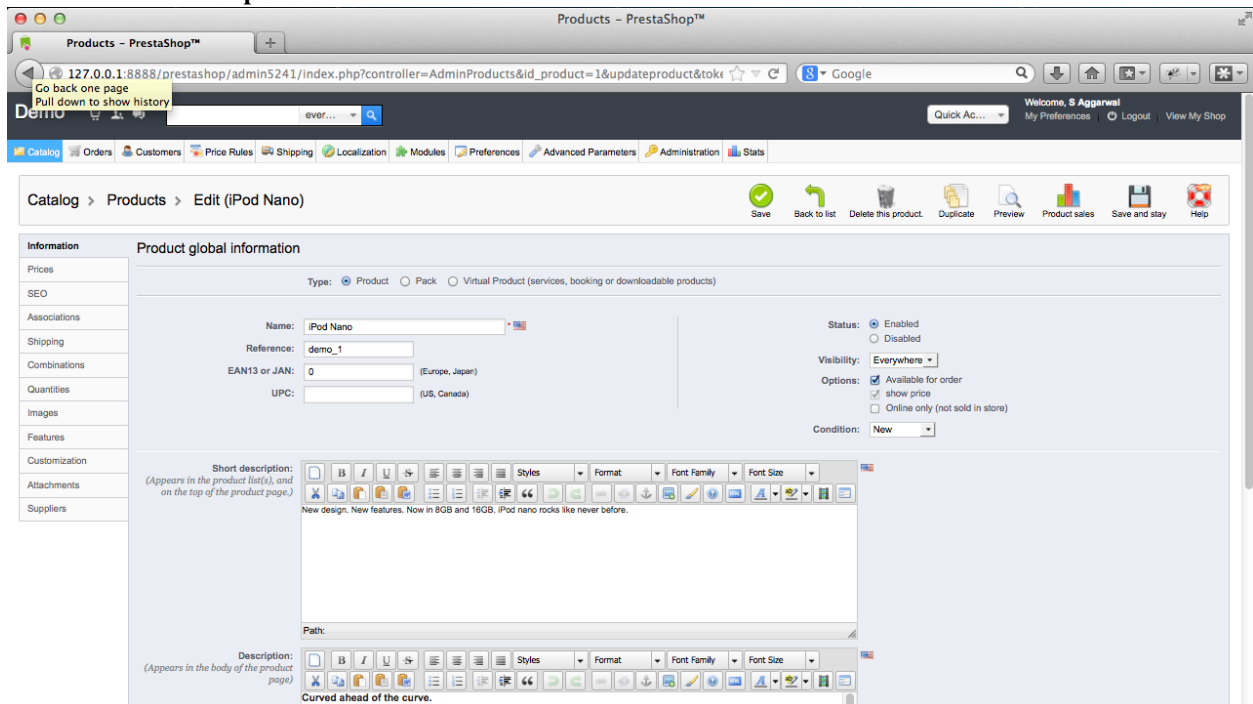
Customer in Prestashop



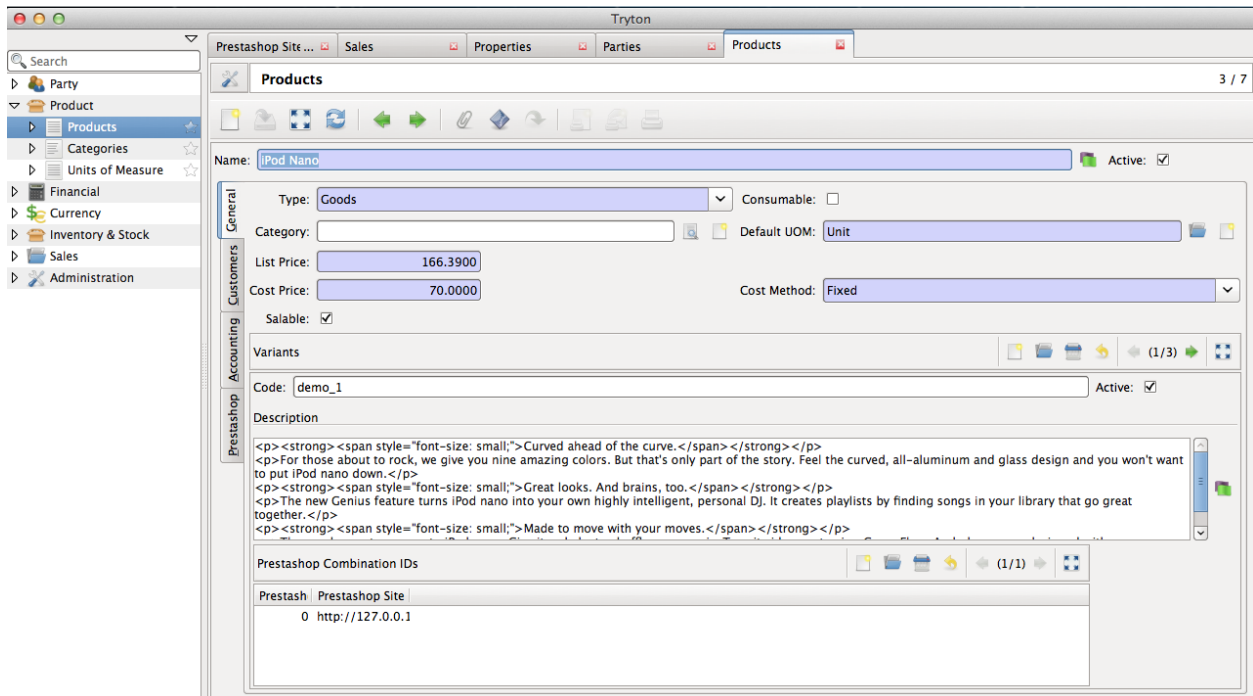
Party in Tryton



Product in Prestashop



Product in Tryton



4.2 Exporting Order Status from Tryton to Prestashop

Once the order is processed in Tryton, the shipping status of the order based on delivery and picking is updated on prestashop. This is periodically done by the Tryton CRON system. The default interval between two exports is a day, but *can be modified* to your requirements.

- The status of orders which are imported as *processing* in Tryton will be exported to Prestashop as *Delivered* once they are marked *shipped* and *done* in Tryton.
- The status of orders which are imported as *confirmed* in Tryton will be exported to prestashop as *Payment accepted* when they are invoiced and *paid* in tryton. These will be also be marked as *Delivered* if they are marked *shipped* in Tryton.

Order processed in Tryton

Tryton

Prestashop Site ... Sales

20 / 25

Party: Test Customer Invoice Address: Customer, 55416, Minnetonka Shipment Address: Customer, 55416, Minnetonka

Description: GVEPGJYSE Reference: 6

Sale Date: 06/11/2013 Payment Term: Immediate

Warehouse: Warehouse Currency: US Dollar

Lines

Type	Product	Description	Quantity	Unit	Unit Price	Taxes	Amount
Line	iPod Nano	iPod Nano - Col	2	Unit	158.0700	(0)	316.14
Line	iPod Nano	iPod Nano - Col	1	Unit	118.3500	(0)	118.35
Line	[demo_7] Shure	Shure SE210 Sou	1	Unit	124.5800	(0)	124.58
Line		Shipping Cost [E	1.00		2.0000	(0)	2.00

Invoice State: Paid Untaxed: 561.07

Shipment State: Waiting Tax: 0.00

State: Processing Total: 561.07

Order Status exported to Prestashop

Orders - PrestaShop™

127.0.0.1:8888/prestashop/admin5241/index.php?controller=AdminOrders&token=846c4af246e4c981e52e2b3d

Google

Order ID	Order Reference	Customer	Total	Payment Method	Status	Date
17	TFUAPZEVF	R. Kumar	\$157.68	Payment by check	PAYMENT ACCEPTED	2013-06-17 04:19:51
16	RXALFJHPY	T. Bhardhwaj	298,32€	Payment by check	DELIVERED	2013-06-17 03:41:20
15	BCEOPZCEA	R. Pawar	1 411,70€	Payment by check	DELIVERED	2013-06-17 03:25:09
14	ZZATBOKGB	T. Bhardhwaj	300,48€	Bank Wire	PAYMENT ACCEPTED	2013-06-17 02:51:36
13	ENTZCTIOM	T. Bhardhwaj	\$622.90	Payment by check	DELIVERED	2013-06-17 02:47:20
12	BABKRYJNB	T. Bhardhwaj	12 642,16€	Bank Wire	SHIPPED	2013-06-17 02:31:19
11	JKRLTEGHG	R. Pawar	\$35,119.10	Payment by check	DELIVERED	2013-06-15 09:55:23
10	TJECMQQGA	R. Pawar	\$31,607.19	Bank Wire	PAYMENT ACCEPTED	2013-06-15 09:46:49
9	ZADIUYDDQ	R. Shukla	\$560.61	Payment by check	DELIVERED	2013-06-15 09:31:35
8	NOANTHYFW	R. Shukla	\$499.17	Payment by check	SHIPPED	2013-06-15 09:22:48
7	TUBGAIADG	T. Customer	\$179.83	Payment by check	AWAITING CHEQUE PAYMENT	2013-06-11 09:38:10
6	GVEPGJYSE	T. Customer	\$561.07	Payment by check	PAYMENT ACCEPTED	2013-06-11 08:56:46
5	NFJTGNFVU	T. Customer	\$318.14	Bank Wire	AWAITING CHEQUE PAYMENT	2013-06-11 08:54:03
4	XHWZUQLSI	J. DOE	\$50.08	Bank Wire	PAYMENT ACCEPTED	2013-06-10 09:15:04
3	JBVASGYJL	J. DOE	\$3,008.36	Bank Wire	PAYMENT ACCEPTED	2013-06-10 09:02:18
2	IOAOLLDOP	J. DOE	\$158.07	Bank Wire	DELIVERED	2013-06-07 11:10:39

Indices and tables

- `genindex`
- `modindex`
- `search`