

# Tryton By Example

-  
Getting started

-  
Basic Functionality

Github - <https://github.com/clixwise/tryton-by-example>



















Version of presentation : [6.0](#)

Version of Tryton : 6.0

Verified for execution on : Windows 10 & Powershell 7

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Author : Marc Rottiers

- >  Party
- >  Company
- >  Product
- >  Currency
- >  Banking
- >  Carrier
- >  Financial
- >  Inventory & Stock
- >  Purchases
- >  Sales
- >  Marketing
- >  Timesheet
- >  Attendance
- >  Production
- >  Project
- >  Commission
- >  Dashboard
- >  Administration

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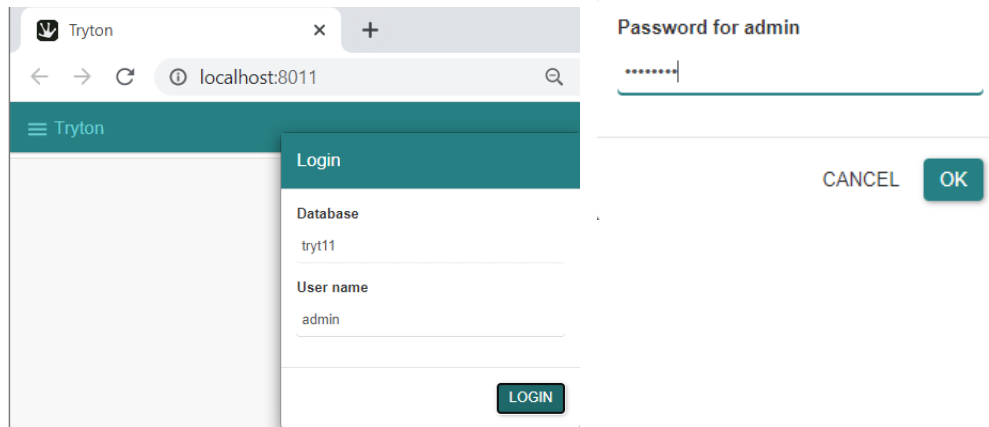
<b>Login &amp; Logout</b>	User interface
<b>Configuration Wizard</b>	Wizards to execute some administration
<b>Navigation &amp; Action</b>	How to access and perform Operations
<b>Module</b>	Explaining the concept of Modules
<b>Basic Configuration</b>	Basic Configuration
<b>Country &amp; Currency</b>	Installing Country & Currency modules
<b>Party &amp; Company &amp; Employee</b>	Installing Party & Company & Employee modules
<b>User</b>	Installing additional Users
<b>Financial</b>	Installing Financial modules
<b>User Authorization</b>	Demonstrate user privileges

# Login & Logout

# Login & Logout

We login with the previously installed configuration :

- Database : « tryt11 »
- User : « admin »
- Password : « Password »



We logout before we backup the database



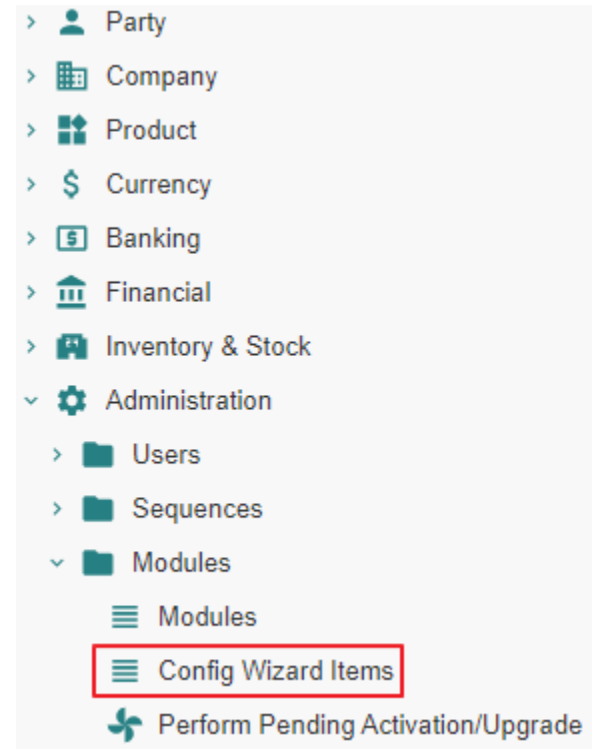
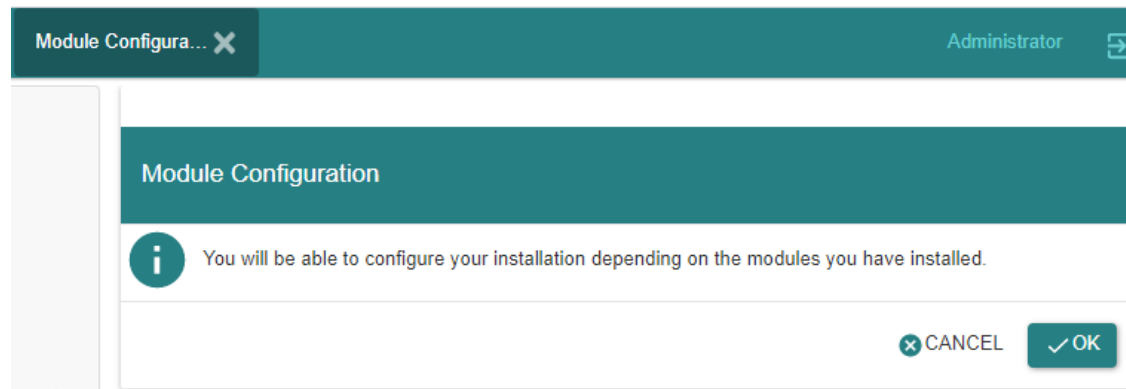
# Configuration Wizard

Initial Wizard

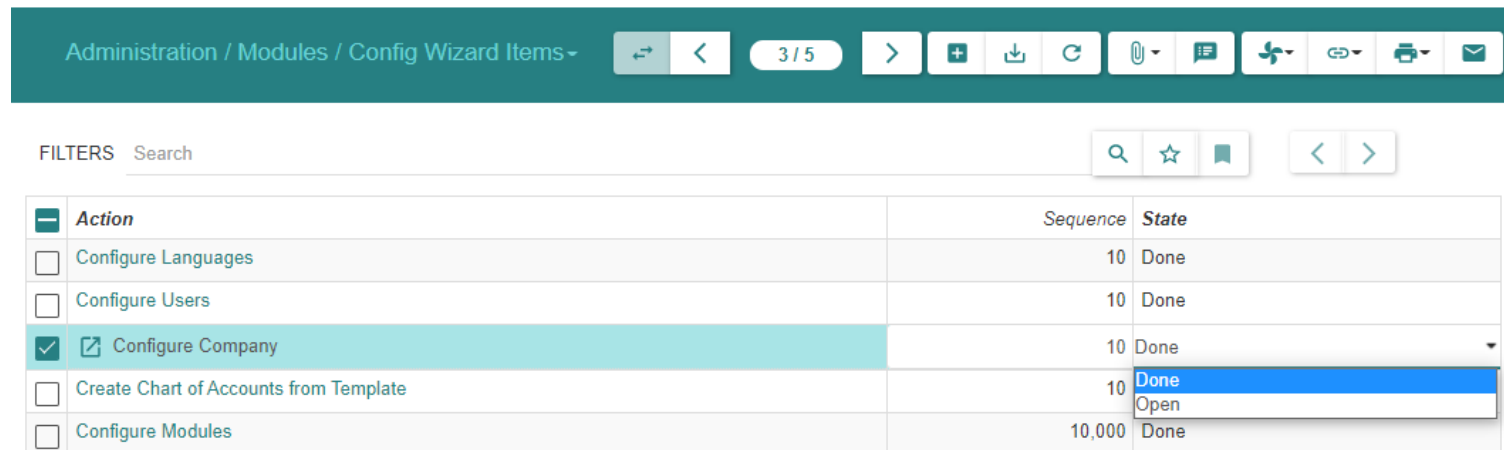
# Initial Configuration Wizard

This wizard allows :

1. To add languages,
2. To define new users and
3. To activate functional modules



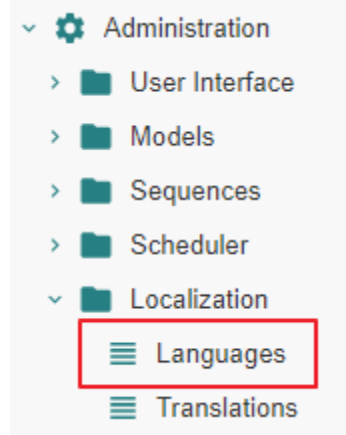
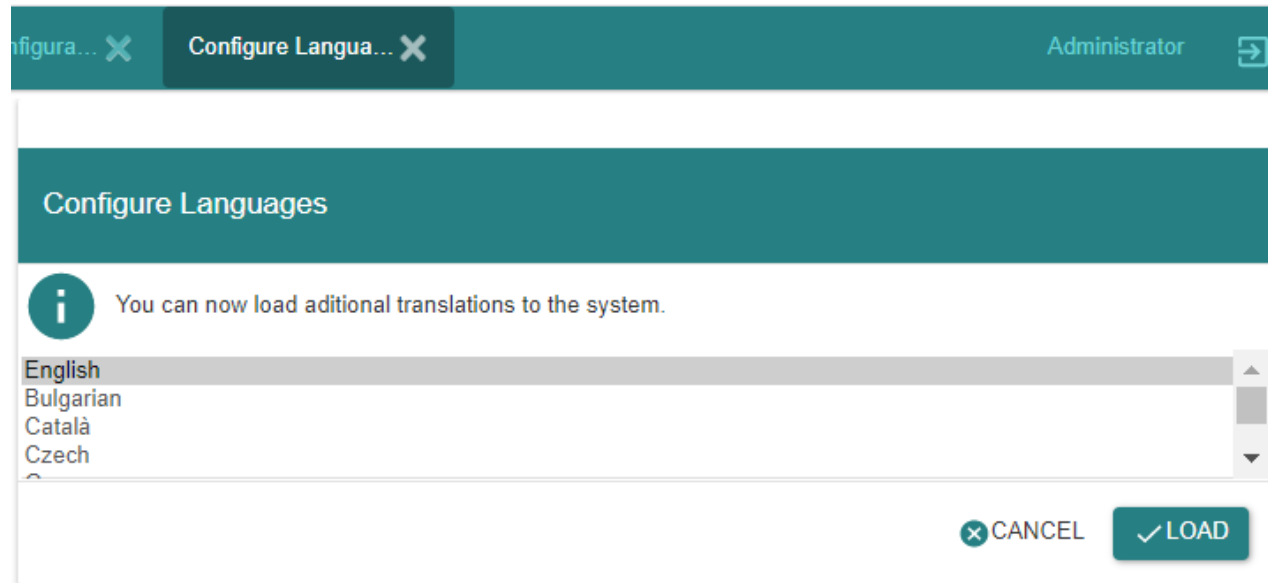
Additional wizards will be installed as more modules are added to the system.





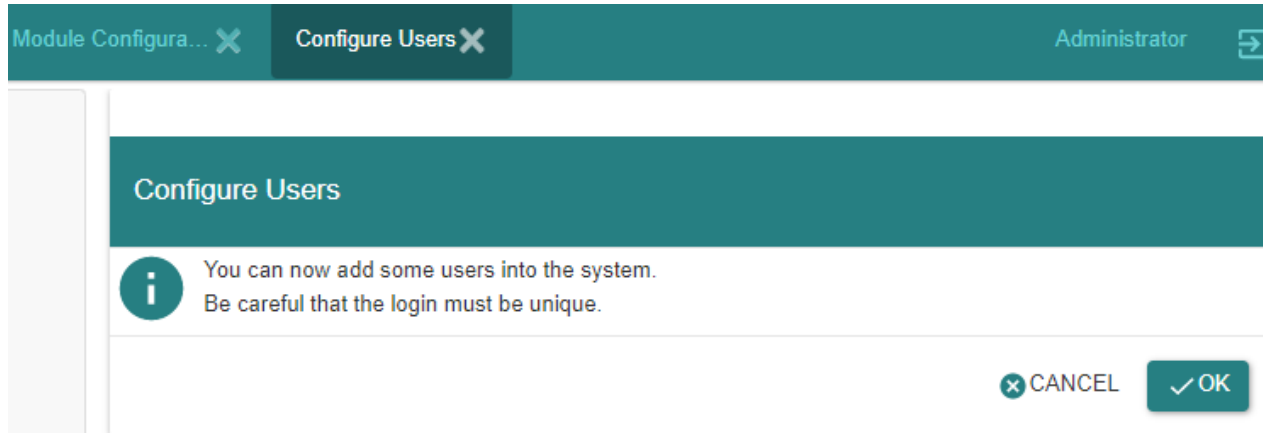
# 1. Adding « Languages »

This wizard allows to define new languages



If languages must be added later on, we can also directly access the menu item « Languages »

## 2. Defining « Users »



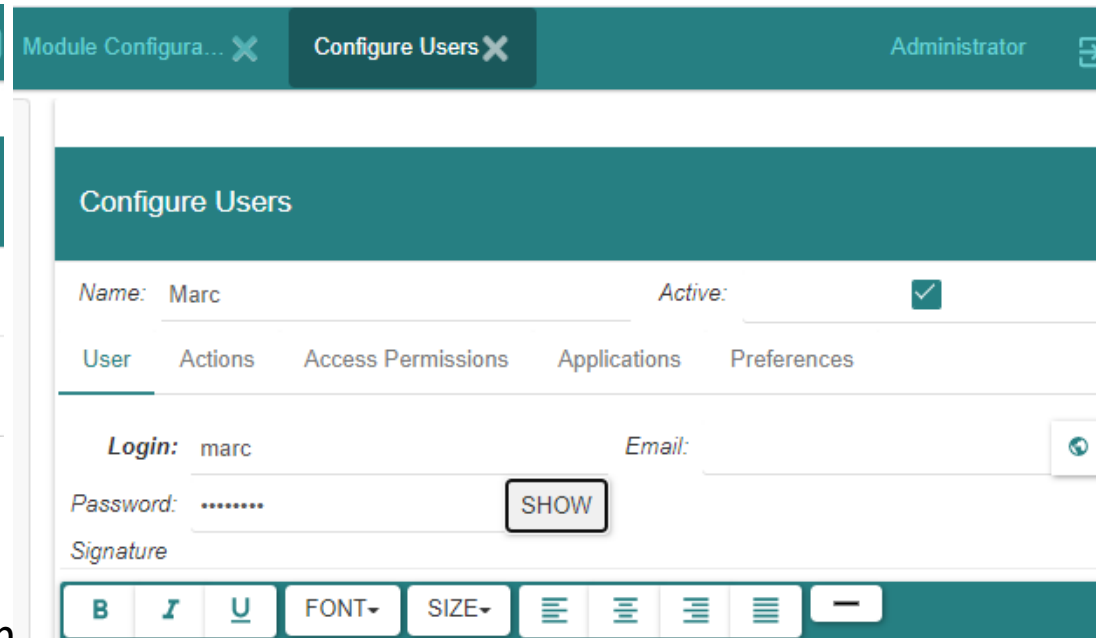
Module Configura... X Configure Users X Administrator

### Configure Users

*i* You can now add some users into the system.  
Be careful that the login must be unique.

*x* CANCEL *✓* OK

- « User Administrator » is initially used to log into the system
- It is then possible to define additional users
- In this introductory documentation, we nevertheless perform most (if not all) operations with « User Administrator »
- Additional users can allways be defined later by accessing the menu item « Users »
- Note that users cannot be deleted ; they can only be deactivated



Module Configura... X Configure Users X Administrator

### Configure Users

Name: Marc Active: ☒

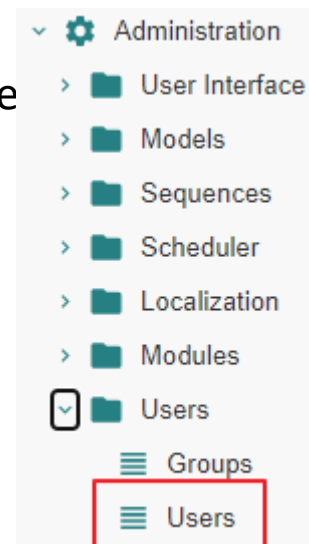
User Actions Access Permissions Applications Preferences

Login: marc Email:

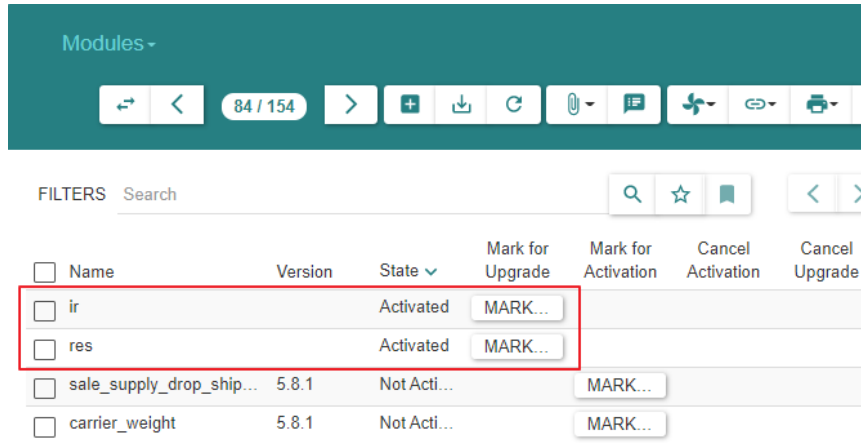
Password: ..... SHOW

Signature

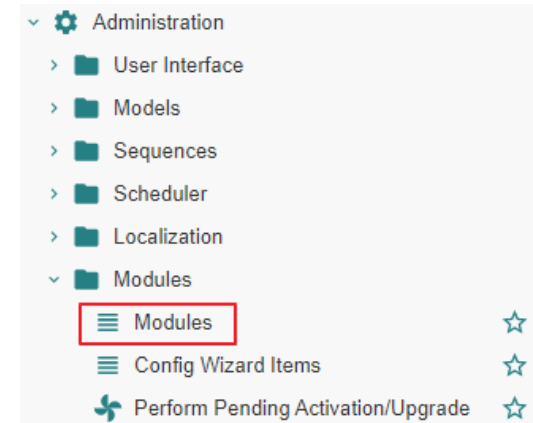
B I U FONT SIZE [List Icons]



### 3. Activating « Modules »



<input type="checkbox"/> Name	Version	State	Mark for Upgrade	Mark for Activation	Cancel Activation	Cancel Upgrade
<input type="checkbox"/> ir		Activated	MARK...			
<input type="checkbox"/> res		Activated	MARK...			
<input type="checkbox"/> sale_supply_drop_ship...	5.8.1	Not Acti...		MARK...		
<input type="checkbox"/> carrier_weight	5.8.1	Not Acti...		MARK...		



#### Initially

- Initially, all but two modules are activated : « ir » and « res »
- We do not activate additional modules at this stage

#### User Administrator

- Modules must be activated for this user to access functional subject areas s.a. « Party », « Sale », etc.
- As we progress in our understanding of the system, we will activate modules along the way.
- We do this by referring to the menu item « Modules ».

#### Other users

- At the end of this document, we will show how to activate access to subject areas for other users.
- We will do so thru Menu Tree Items « User Groups » or « User Roles ».

## Re-executing wizards - Method 1 - Step 1

Administration / Modules / Config Wizard Items

FILTERS Search

<input type="checkbox"/>	Action	Sequence	State
<input type="checkbox"/>	Configure Languages	10	Done
<input type="checkbox"/>	Configure Users	10	Done
<input type="checkbox"/>	Configure Modules	10,000	Done

Administration

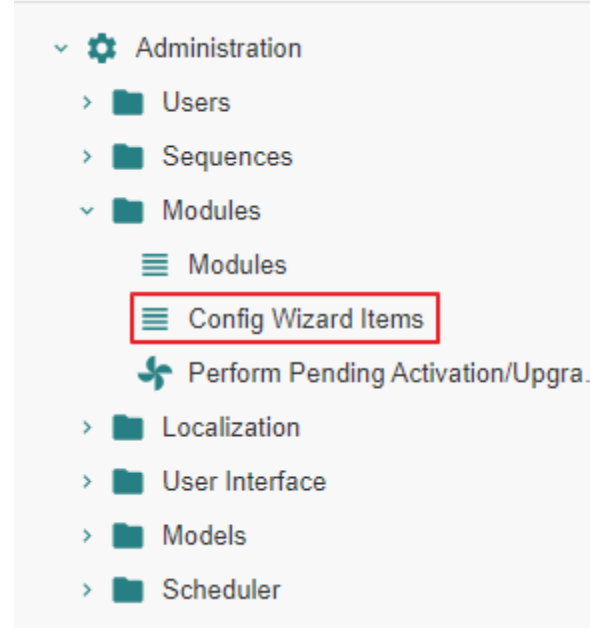
- Users
- Sequences
- Modules
  - Modules
  - Config Wizard Items
  - Perform Pending Activation/Upgra...
- Localization
- User Interface
- Models
- Scheduler

- The Configuration Wizard Items are accessed as shown above
- If they are in state « Open », they have not been executed
- If they are in state « Done », they have been executed with or without actually performing the corresponding functionality i.e. configuring a language, a user, a module.
- In the later case, the next slide shows how to execute a Wizard Configuration Item once again.

Wizards

# Motivation

- All operations are accessible from the Menu Tree on the left of the screen
- Some of these operations can also be executed using a « Configuration Wizard »
- We provide exemples of both techniques for the latter case



## Re-executing wizards - Method 1 - Step 2

Administration / Modules / Config Wizard Items

3 / 3

FILTERS Search

Action	Sequence	State
<input type="checkbox"/> Configure Languages	10	Done
<input type="checkbox"/> Configure Users	10	Done
<input checked="" type="checkbox"/> <a href="#">Configure Modules</a>	10,000	Done

Done  
Open

We need to reopen the wizard item in order to execute it again :  
in this case, we use the wizard item to « Configure Modules » once again

Administration

- Users
- Sequences
- Modules
  - Modules
  - Config Wizard Items**
  - Perform Pending Activation/Upgra.
- Localization
- User Interface
- Models
- Scheduler

Administration / Modules / Config Wizard Items

3 / 3

FILTERS Search

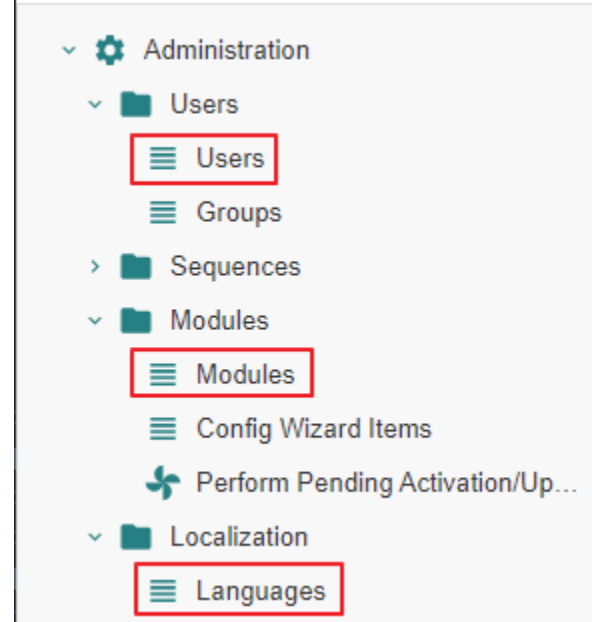
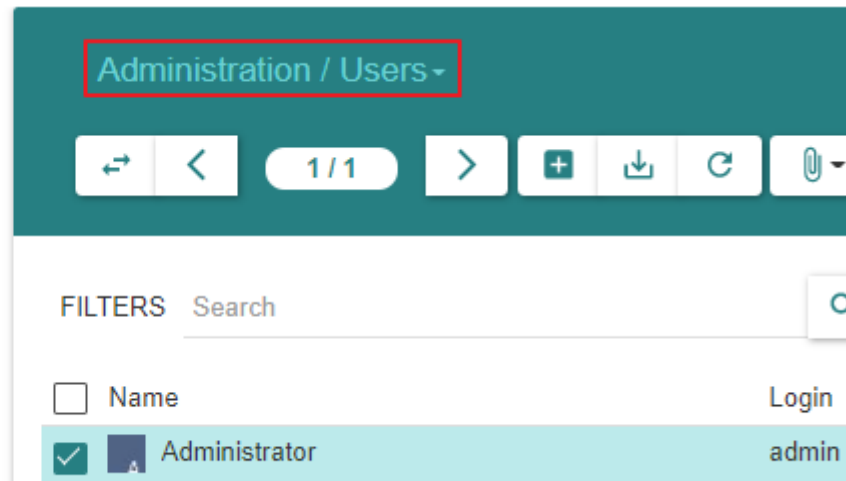
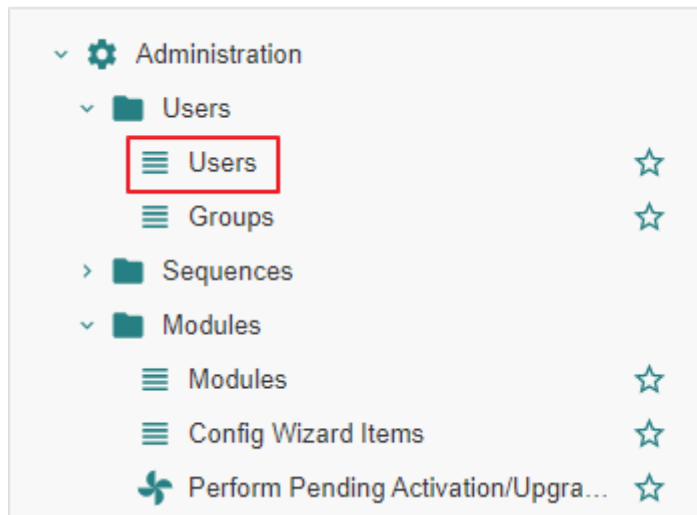
Module Configuration

Translate view

Action	Sequence	State
<input type="checkbox"/> Configure Languages	10	Done
<input type="checkbox"/> Configure Users	10	Done
<input checked="" type="checkbox"/> <a href="#">Configure Modules</a>	10,000	Open

## Re-executing wizards - Method 2

- Instead of repeating the execution using a wizard operation one can directly access the functional item in the Menu Tree on the left of the screen : « Users », « Modules », « Languages »
- Here we access « Users » to define a new user.



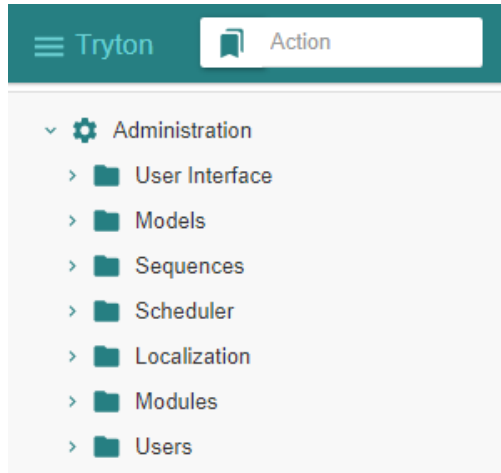


# Navigation & Action

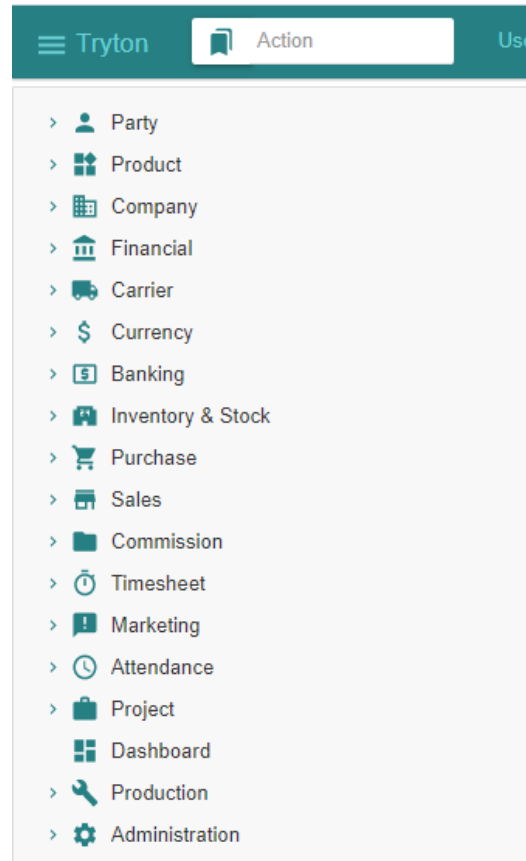
# Motivation

- Before exploring the functional aspects of the system, we explain the different widgets that support navigation in the system and actions that trigger operations on items and item lists.
- Please revisit this section whilst getting acquainted with the system subject areas.

# Application - Menu Tree - Triggering operations



State of Menu Tree  
when  
Initial modules activated

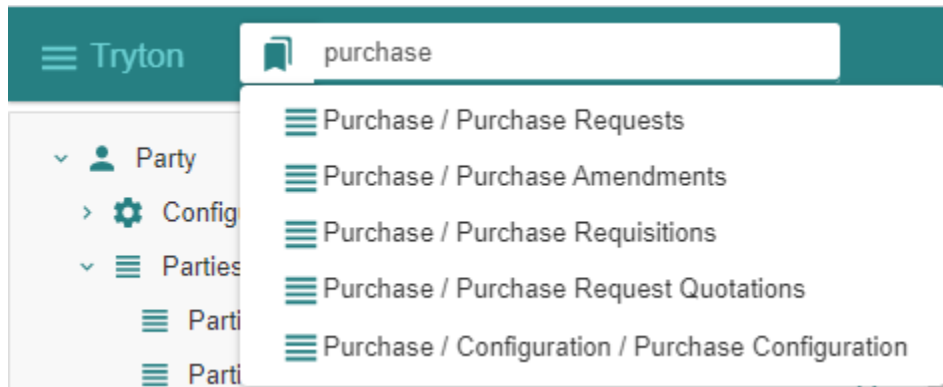


State of Menu Tree  
when  
All modules activated

- The amplitude of the menu tree depends on which application modules have been activated (i.e. installed) for a given user. See next section.
- Application modules belong to functional subject areas that are reflected in the Menu Tree : « Party », « Product », etc.

## Application - Menu Tree - Search for menu item containing e.g. « Purchase »

- A search mechanism exists for the tree of menu items
- Here we assume that the « Purchase » modules have been activated and search for some related functionality



## Entity - Filters

- The filters select the « Name » values
- Here an example for the list of « Modules »

Administration / Modules ▾













**FILTERS** currency or country

☐ Name

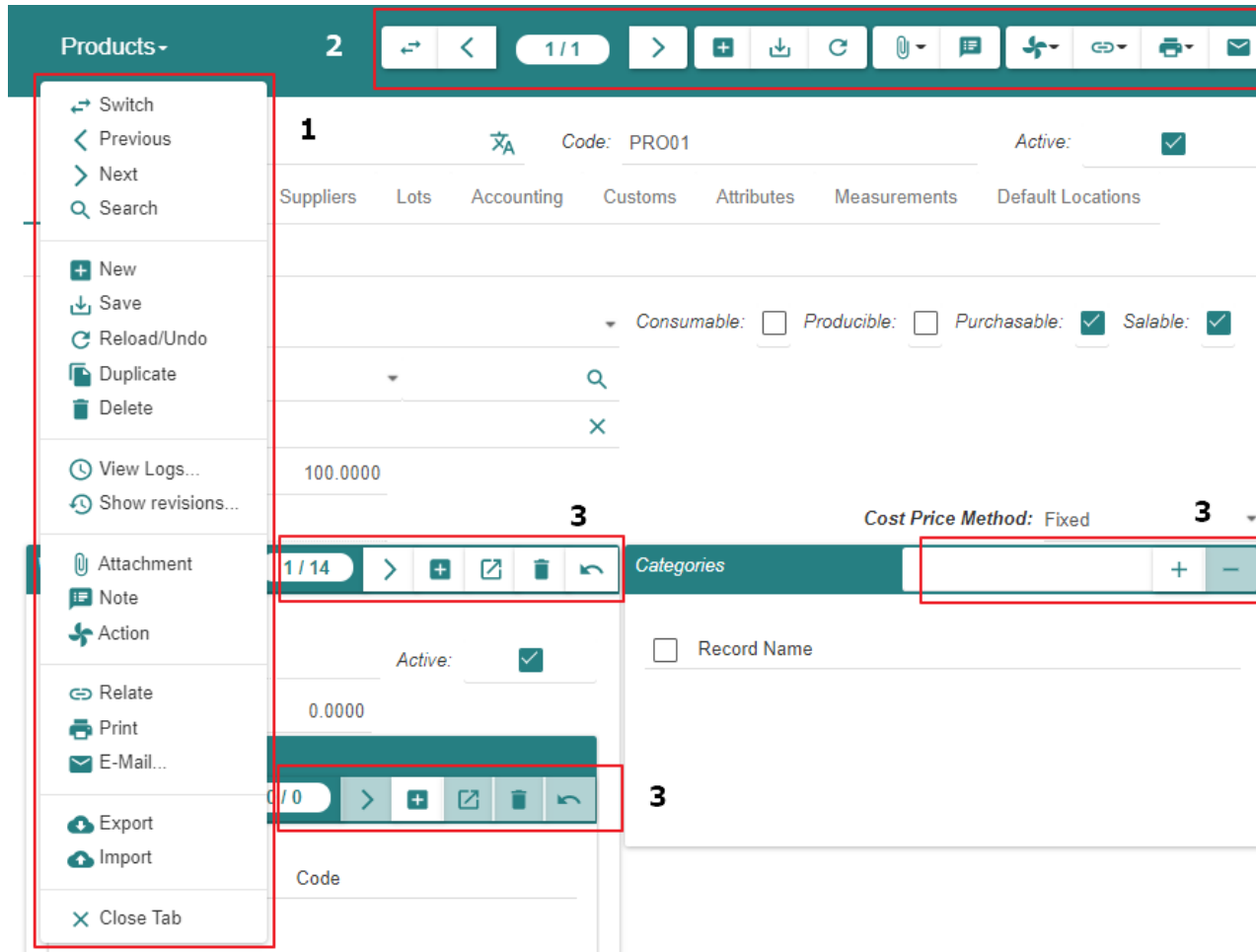
☐ account\_tax\_rule\_country

☐ country

☐ currency

- >  Party
- >  Company
- >  Product
- >  Currency
- >  Banking
- >  Financial
- >  Inventory & Stock
- ✓  Administration
  - >  Users
  - >  Sequences
  - ✓  Modules
    -  Modules

# Entity - Menu Bars - An overview

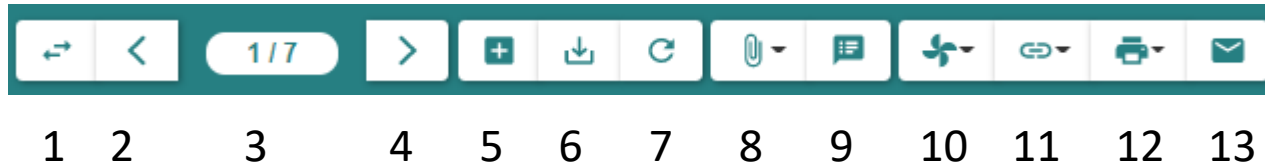


1. Vertical menu bar displays all possible operations
2. Horizontal menu bar displays some entity or list operations
3. Horizontal menu bars display intra-entity operations

## Entity - Menu Bars - Vertical Menu Bar

Parties ▾		
↔ Switch	- 1	- 1 switch view from « item list » to « item »
< Previous	- 2	- 2 « item » : previous in list
> Next	- 3	- 3 « item » : position in list
🔍 Search	- 4	- 4 « item » : next in list
+ New	- 5	- 5 « item » : start adding
↓ Save	- 6	- 6 « item » : save
🔄 Reload/Undo	- 7	- 7 « item list » or « item » : reload / undo / refresh
📄 Duplicate	- 8	- 8 « item » : duplicate
🗑 Delete	- 9	- 9 « item » : delete
🕒 View Logs...	- 10	- 10 « item list » : perform operation that is specific of this list
🕒 Show revisions...	- 11	- 11
📎 Attachment	- 12	- 12 « item » : attach one or more documents (e.g. of type docx, xlsx, etc.)
💬 Note	- 13	- 13 « item » : attach a note
🌀 Action	- 14	- 14 « item » : actions that are specific of the entity
🔗 Relate	- 15	- 15
🖨 Print	- 16	- 16 « item » : print
✉ E-Mail...	- 17	- 17
📤 Export	- 18	- 18
📥 Import	- 19	- 18
✕ Close Tab		- 19

## Entity - Menu Bars - Horizontal Menu Bar



- 1 switch view from « item list » to « item » (\*)
- 2 « individual record » : previous in list
- 3 « individual record » : position in list
- 4 « individual record » : next in list
- 5 « individual record » : start adding
- 6 « individual record » : save
- 7 « individual record » and « record list » : reload / undo / refresh
- 8
- 9
- 10 « record list » : perform operation that is specific of this list
- 11
- 12 « individual record » : print
- 13



# Entity - « Item Double-Click » vs « Menu Item Navigation »

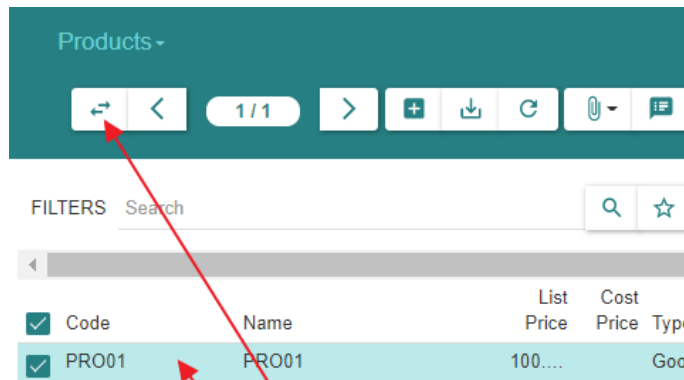
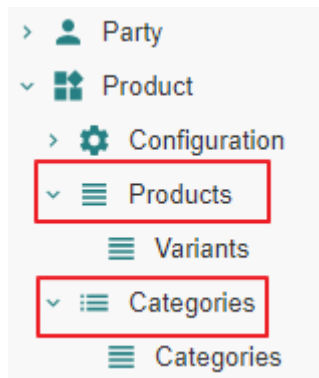
When displaying a list of items, double-click on one of them mostly generates the same result as « <- -> ».

There are however exceptions whereby :

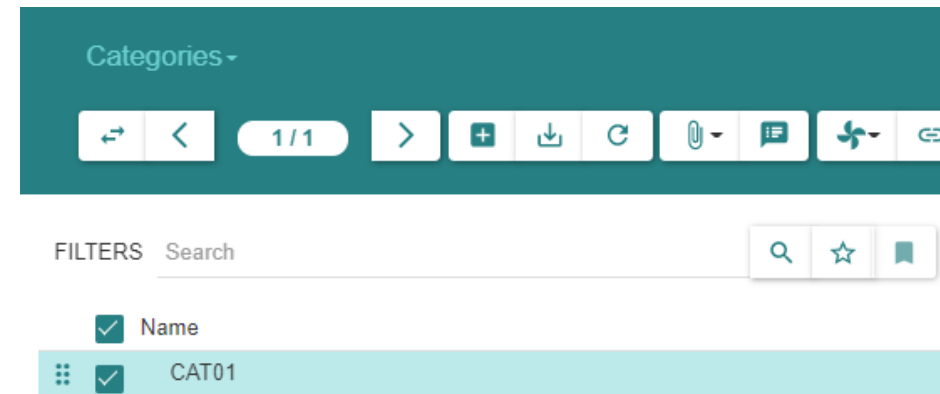
- « <- -> » displays either nothing or details about the item itself.
- « double-click » provides a « drill-down view » of objects belonging to the item

## Examples

- « Chart of Accounts » <- -> : displays nothing
- « Chart of Accounts » double-click : displays the transactions for that account
- « Product Category » <- -> : displays details about the category
- « Product Category » double-click : displays the « Products » that belong to this « Category »



Double click or <- -> : same result



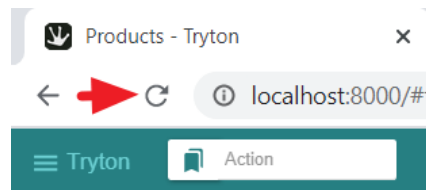
Double click : Products by Category (drill-down)  
<- -> : Properties of Category

# Application or Entity - Data Refresh Requirements

Sometimes it is necessary to refresh the screen using the « Browser Page Reload » button or the relevant menu item (see below).

This may happen e.g.

- In the case of « Switching » from « Item » view to « List » view. For instance, when state information in a « Sales Order », e.g. « Draft », has been changed in the « Item » view it might incorrectly persist in the « List » view though it has evolved e.g. to « Confirmed ».
- In the case of updating the « List of Product » sold by a « Supplier » then displaying the « Product » to show the « List of Suppliers »
- In the case of adding a « Product Variant » in the « List of Variants », it is necessary to refresh the « Product » itself to take the variant into account on the screen



# Module

# Motivation

The « Application » is implemented by « Modules » that use « Database Tables » and « Files » optionally. Modules are not *explicitly* grouped into functional subject areas.

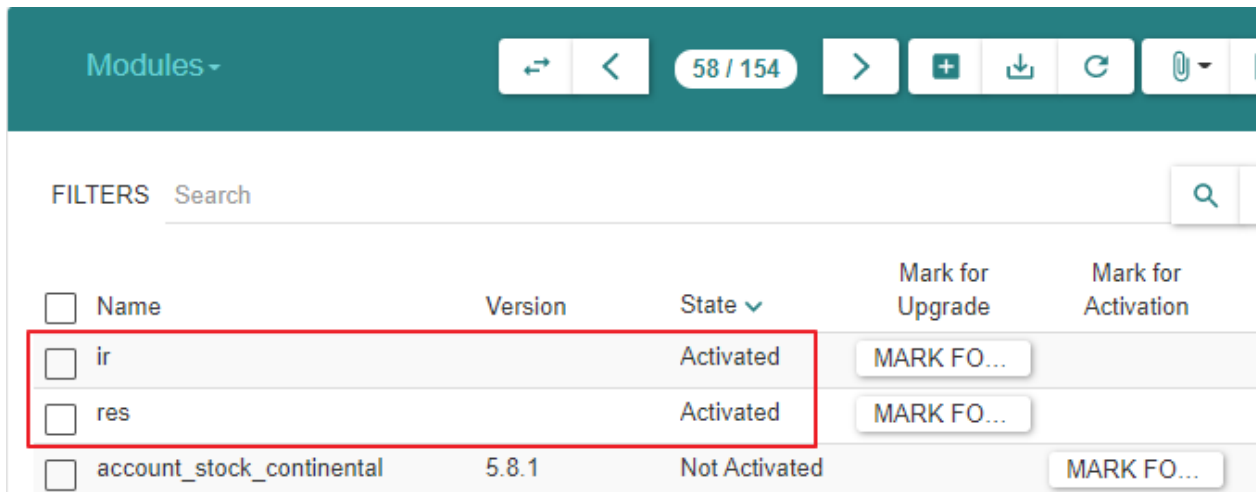
Initially, all but two modules (« ir » & « res ») are inactivated : see below.

The activation relies technically

- Either on the usage of wizards and a mutual dependency mechanism.
- Or based on their name by grouping them based on their prefix.

When modules are activated,

- The database tables they use are created if required.
- The menu items are added in the Tree on the left of the screen.



<input type="checkbox"/> Name	Version	State ▼	Mark for Upgrade	Mark for Activation
<input type="checkbox"/> ir		Activated	MARK FO...	
<input type="checkbox"/> res		Activated	MARK FO...	
<input type="checkbox"/> account_stock_continental	5.8.1	Not Activated		MARK FO...

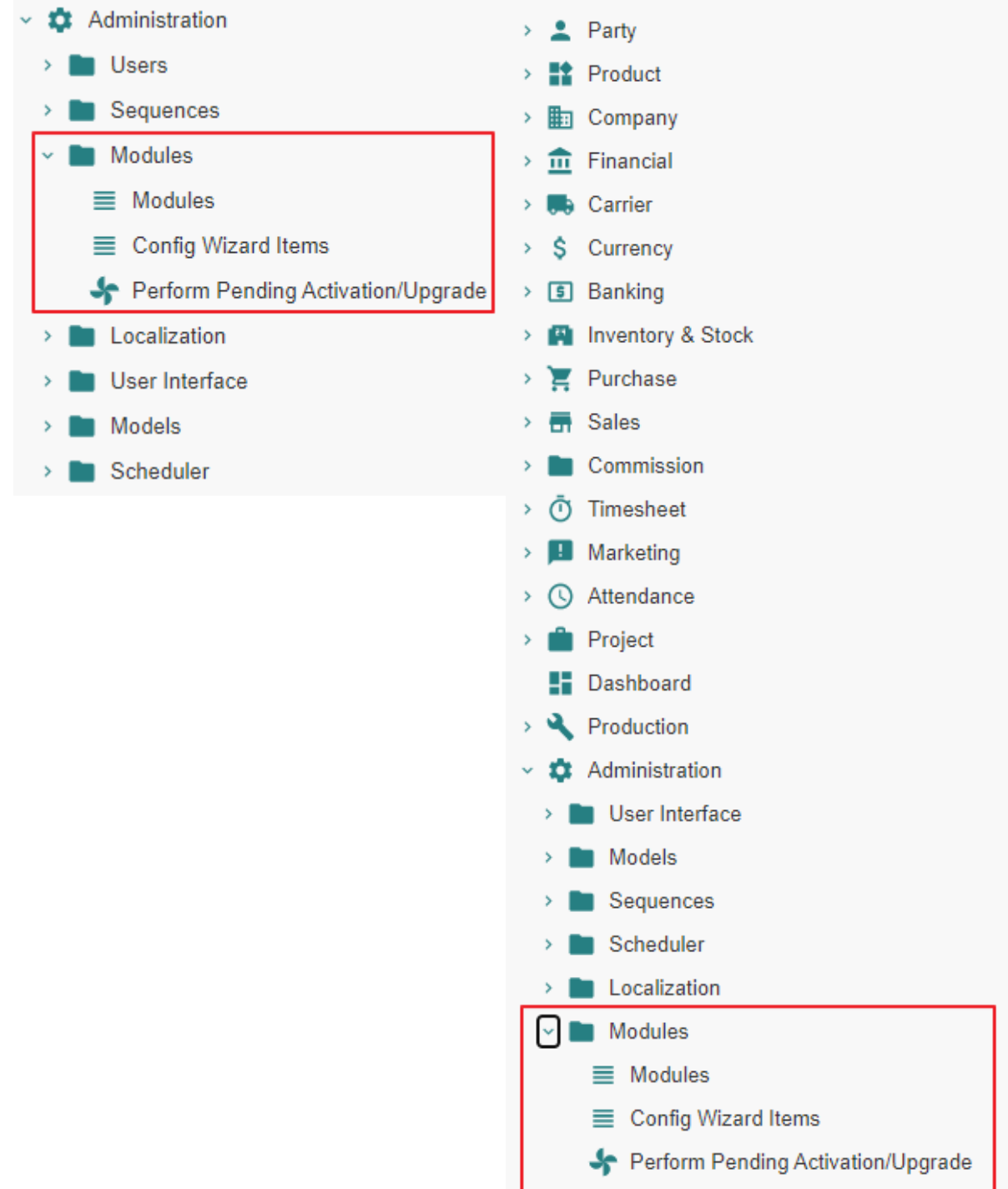
# Modules

- Tryton optimizes operations by requiring activation of application modules.
- We will activate modules as we progress instead of activating all modules at once

Modules						
144 / 1...						
Perform Pending Activation/Upgrade						
Translate view						
FILTERS Search						
<input type="checkbox"/> Name	Version	State	Mark for Upgrade	Mark for Activation	Cancel Activation	Car
<input type="checkbox"/> res		Activated	MARK FOR UPGRADE			
<input type="checkbox"/> party_relationship	5.8.1	Activated	MARK FOR UPGRADE			
<input type="checkbox"/> ir		Activated	MARK FOR UPGRADE			
<input type="checkbox"/> currency	5.8.1	Activated	MARK FOR UPGRADE			
<input type="checkbox"/> party	5.8.1	Activated	MARK FOR UPGRADE			
<input type="checkbox"/> country	5.8.1	Activated	MARK FOR UPGRADE			
<input type="checkbox"/> party_siret	5.8.1	Activated	MARK FOR UPGRADE			
<input type="checkbox"/> user_role	5.8.1	Activated	MARK FOR UPGRADE			
<input type="checkbox"/> company	5.8.1	Activated	MARK FOR UPGRADE			
<input type="checkbox"/> company_work_time	5.8.1	Activated	MARK FOR UPGRADE			
<input type="checkbox"/> stock_supply	5.8.1	Not Activated		MARK FOR ACTIVAT...		
<input type="checkbox"/> stock_secondary_unit	5.8.1	Not Activated		MARK FOR ACTIVAT...		

# Modules

Growing list of menu items : initial & final list of menu items as modules are being installed



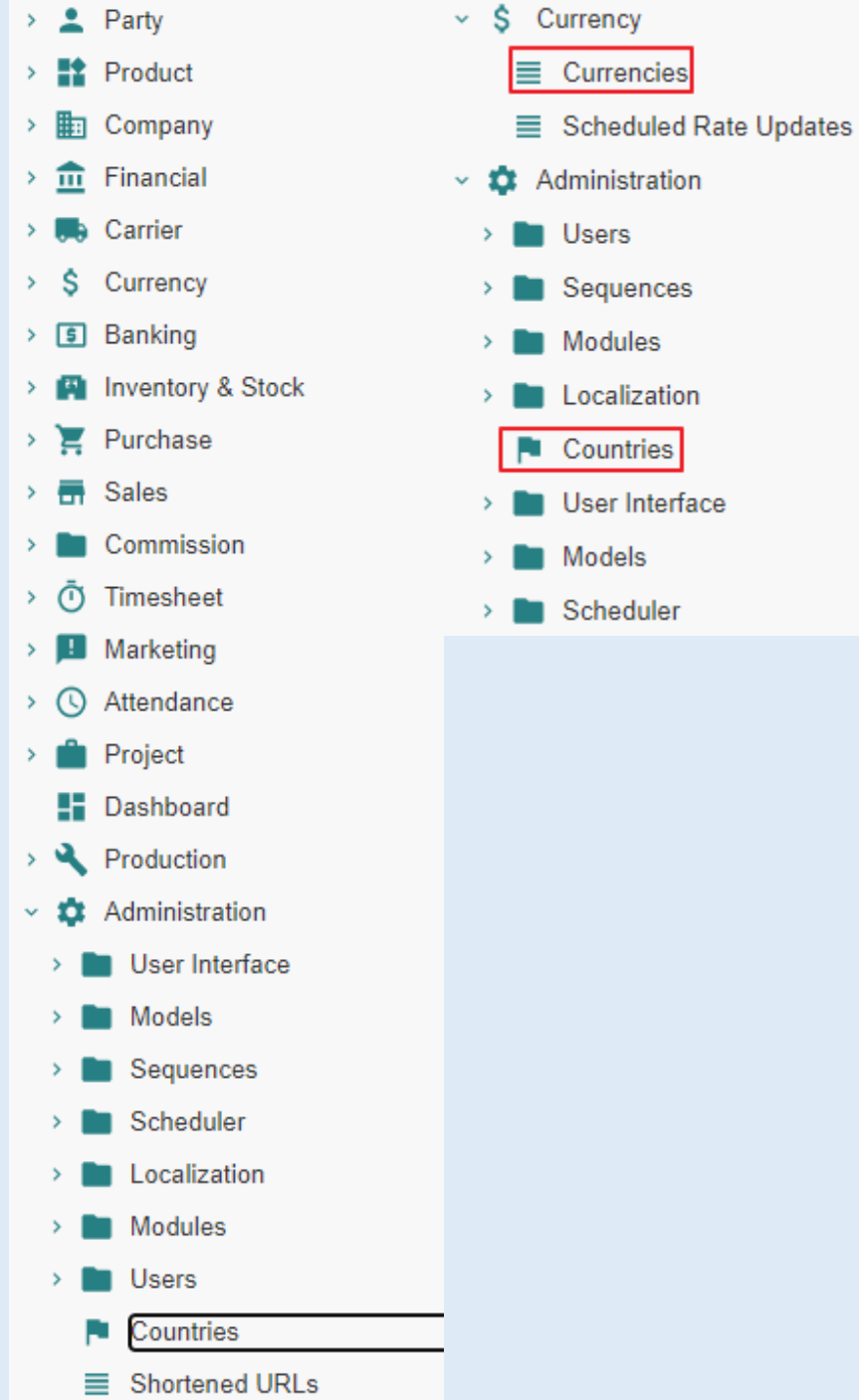
# Basic Configuration

# Motivation

- Before examining the typical ERP transactions like « Sales », etc. we need to activate modules that support the different « basic subject areas ».
- This link refers to official documentation about a « basic configuration » :  
[https://tryton-administration-manual.readthedocs.io/en/latest/basic\\_config.html](https://tryton-administration-manual.readthedocs.io/en/latest/basic_config.html)



# « Country » & « Currency »



# Motivation

The TRYTON database and application contain minimal database tables and application modules.

« Countries » and « Currencies » are extensively used. Hence, it is advised to :

1. Activate the corresponding application modules thereby also creating the required tables in the database.
2. Load the tables with ISO normalised « Currency » and « Country » data

Finally, for each « Currency » of use in the « Company » operations, it is advised to :

- Set the « Rate » property to 1.0 for a « Reference Currency » ; f.i. « EUR rate » = 1.0
- Set the « Rate » property to a relative value for each « Relative Currency » ; f.i. « USD rate » = 1.2
- When the « Company » operates in a single currency environment, the « 1.0 » multiplication factor is used
- When the « Company » operates in a multi-currency environment, each currency-related rate is used as multiplication factor

# Documentation

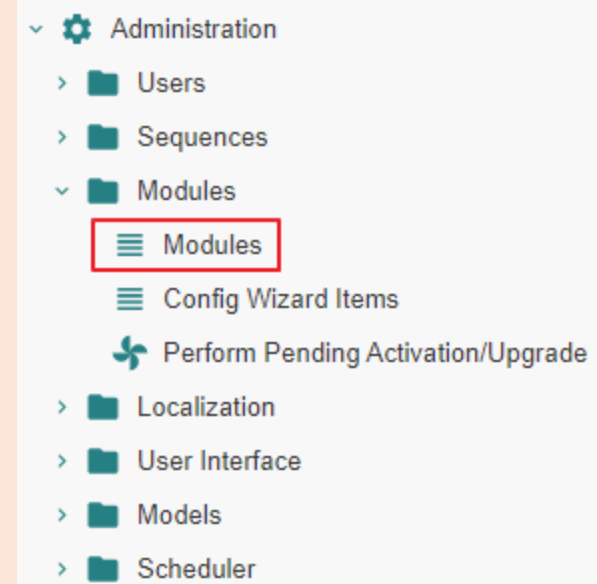
<https://docs.tryton.org/projects/modules-country/en/latest/>

Country ▲	Alpha-2 code ◆	Alpha-3 code ◆	Numeric ◆
Afghanistan	AF	AFG	004
Albania	AL	ALB	008
Belgium	BE	BEL	056
Congo (the Democratic Republic of the)	CD	COD	180

# Documentation

<https://docs.tryton.org/projects/modules-currency/en/latest/>

Country ▲	Currency ⇅	Code ⇅	Number ⇅
AFGHANISTAN	Afghani	AFN	971
ALBANIA	Lek	ALL	008
CONGO (THE DEMOCRATIC REPUBLIC OF THE)	Congolese Franc	CDF	976
UNITED STATES OF AMERICA (THE)	US Dollar	USD	840
UNITED STATES OF AMERICA (THE)	US Dollar (Next day)	USN	997



## Application - Activating the Modules

# Activate « Country » & « Currency »

The first screenshot shows the 'Administration / Modules' page with a table of modules. The 'country' and 'currency' modules are selected, and their state is 'Not Activated'. A context menu is open over the 'country' module, showing options like 'Perform Pending Activation/Upgrade', 'Mark for Activation', and 'Translate view'. The 'Mark for Activation' option is highlighted.

Name	Version	State	Mark for Upgrade
<input type="checkbox"/> account_tax_rule_country	6.0.0	Not Activated	MARK FO...
<input checked="" type="checkbox"/> country	6.0.0	Not Activated	MARK FO...
<input checked="" type="checkbox"/> currency	6.0.0	Not Activated	MARK FO...

The second screenshot shows the same page after clicking 'Mark for Activation'. The state of the 'country' and 'currency' modules has changed to 'To be activat...'. The context menu is still open, showing options like 'Perform Pending Activation/Upgrade', 'Cancel Activation', and 'Translate view'. The 'Perform Pending Activation/Upgrade' option is highlighted.

Name	Version	State	Mark for Upgrade
<input type="checkbox"/> account_tax_rule_country	6.0.0	Not Activated	MARK FO...
<input checked="" type="checkbox"/> country	6.0.0	To be activat...	CANCEL A...
<input checked="" type="checkbox"/> currency	6.0.0	To be activat...	CANCEL A...

The third screenshot shows the 'Administration / Modules' page after clicking 'Perform Pending Activation/Upgrade'. The 'country' and 'currency' modules are now 'Activated'. The 'Mark for Upgrade' button is highlighted in the toolbar.

Name	Version	State	Mark for Upgrade	Mark for Activation	Cancel Activation	Cancel Upgrade
<input type="checkbox"/> account_tax_rule_country	6.0.0	Not Activated		MARK FO...		
<input checked="" type="checkbox"/> country	6.0.0	Activated	MARK FO...			
<input checked="" type="checkbox"/> currency	6.0.0	Activated	MARK FO...			

## Activate « Country » & « Currency »

Administration / Modules ▾

↔ < 75 / 165 > + ⬇️ ↻ 📎 🗨️

FILTERS Search 🔍 ☆

<input type="checkbox"/> Name	Version	State ▾	Mark for Upgrade	Mark for Activation	A
<input type="checkbox"/> res		Activated	MARK FO...		
<input type="checkbox"/> ir		Activated	MARK FO...		
<input type="checkbox"/> country	6.0.0	Activated	MARK FO...		
<input type="checkbox"/> currency	6.0.0	Activated	MARK FO...		
<input type="checkbox"/> company	6.0.0	Not Activated		MARK FO...	

> \$ Currency

Administration

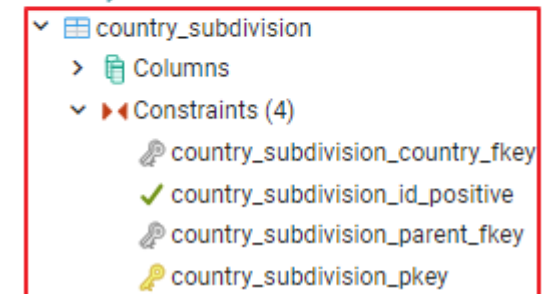
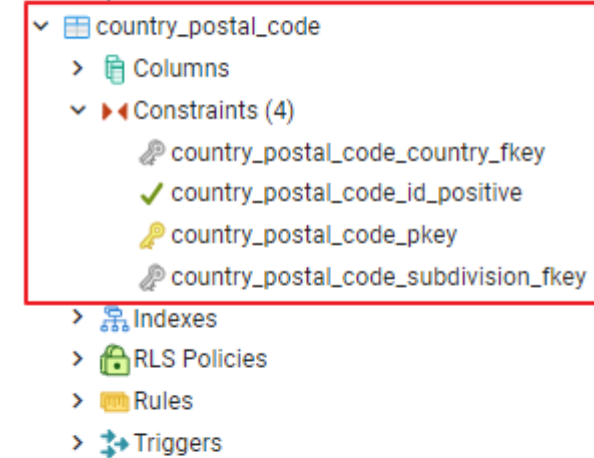
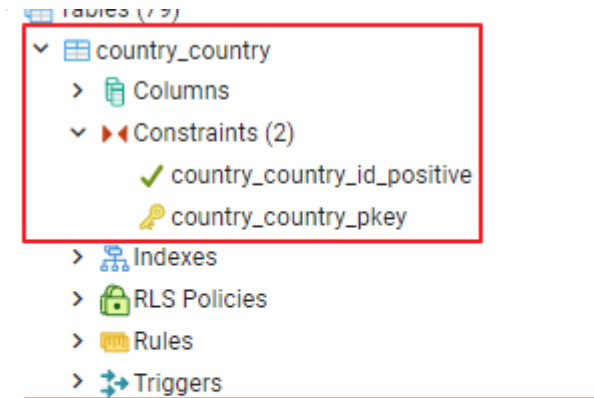
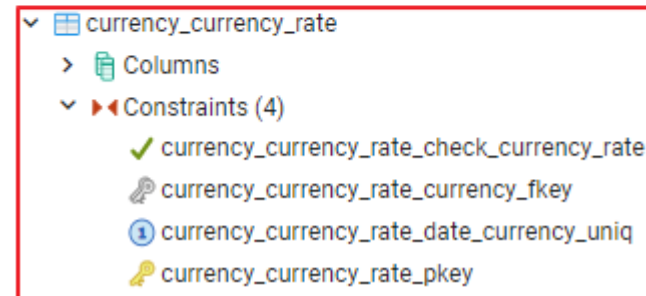
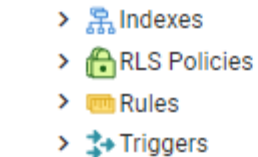
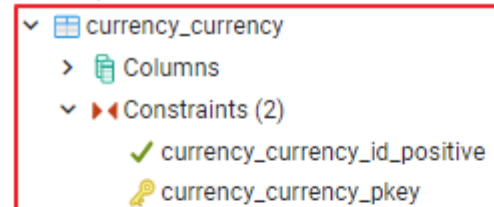
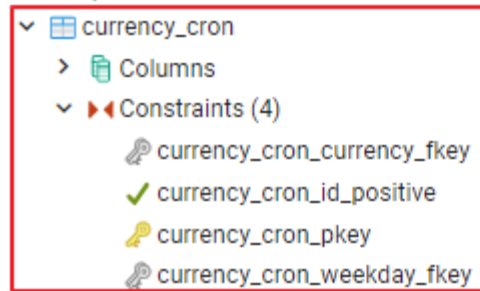
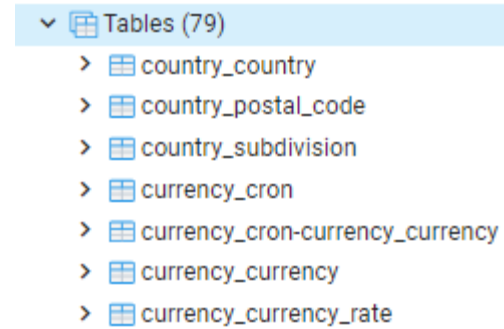
- > Users
- > Sequences
- > Modules
- > Localization
- Countries
- > User Interface
- > Models
- > Scheduler

Note :

- Use TRYTON « Reload » operation to refresh and display
- « Countries » & « Currencies » appear in the Tree Menus
- When clicking « Countries or « Currency », the data panel remains empty : we need to load the database tables

# Activate « Country » & « Currency »

- There are 3 additional « country » tables
- There are 4 additional « currency » tables
- All tables are still empty





# Database – Loading the Tables

# Scripts

Load TRYTON tables “Countries” & “Currencies”	
Tryton 6.0 - Doc 05.01 - Basic functionality.import.tryt11.countries	Fill table with ISO countries
Tryton 6.0 - Doc 05.01 - Basic functionality.import.tryt11.currencies	Fill table with ISO currencies

- [<https://discuss.tryton.org/t/data-base-importing-countries-or-currencies/3811/7>]
- Special credits to David Harper










## « Country » - Load data

```
PS C:\Users\mrmar\docker.tryton.6.0> ./"Tryton 6.0 - Doc 05.01 - Basic functionality.import.tryt11.countries"
-----
1. Import
-----
/usr/lib/python3/dist-packages/werkzeug/routing.py:1431: DeprecationWarning: invalid escape sequence \s
"""
/usr/lib/python3/dist-packages/passlib/context.py:231: DeprecationWarning: invalid escape sequence \;
    elif any(c in source for c in "\n\r\t") or not source.strip(" \t./\;:"):
/usr/lib/python3/dist-packages/passlib/context.py:2240: DeprecationWarning: invalid escape sequence \*
"""
/usr/lib/python3/dist-packages/passlib/context.py:2323: DeprecationWarning: invalid escape sequence \*
"""
/usr/lib/python3/dist-packages/passlib/context.py:2406: DeprecationWarning: invalid escape sequence \*
"""
/usr/lib/python3/dist-packages/ldap3/utils/ciDict.py:30: DeprecationWarning: Using or importing the ABCs from
    class CaseInsensitiveDict(collections.MutableMapping):
/usr/lib/python3/dist-packages/pyasn1/type/constraint.py:130: DeprecationWarning: invalid escape sequence \*
"""
/usr/lib/python3/dist-packages/pyasn1/type/constraint.py:175: DeprecationWarning: invalid escape sequence \*
"""
/usr/lib/python3/dist-packages/pyasn1/type/constraint.py:334: DeprecationWarning: invalid escape sequence \*
"""
/usr/lib/python3/dist-packages/pyasn1/type/constraint.py:494: DeprecationWarning: invalid escape sequence \*
"""
/usr/lib/python3/dist-packages/pyasn1/type/constraint.py:538: DeprecationWarning: invalid escape sequence \*
"""
/usr/lib/python3/dist-packages/pyasn1/type/namedval.py:54: DeprecationWarning: invalid escape sequence \*
"""
/usr/lib/python3.7/importlib/_bootstrap.py:219: ImportWarning: can't resolve package from __spec__ or __package__
    return f(*args, **kws)
/usr/lib/python3/dist-packages/zeep/xsd/visitor.py:428: DeprecationWarning: invalid escape sequence \[
    match = re.match('([^\[]+)', array_type)
/usr/lib/python3/dist-packages/PyPDF2/generic.py:357: DeprecationWarning: invalid escape sequence \c
    tok = b_("\c")
Update countries
Update subdivisions
```

## « Country » - Load data











```
1 SELECT * FROM public.country_country
2 ORDER BY id ASC
```

Data Output Explain Messages Notifications

	 id [PK] integer 	active boolean 	code character varying (2) 	code3 character varying (3) 	code_numeric character varying 	create_date timestamp without time zone 	create_uid integer 	name character varying 
1	1	true	AW	ABW	533	2021-05-10 17:16:46.342934	1	Aruba
2	2	true	AF	AFG	004	2021-05-10 17:16:46.342934	1	Afghanistan
3	3	true	AO	AGO	024	2021-05-10 17:16:46.342934	1	Angola
4	4	true	AI	AIA	660	2021-05-10 17:16:46.342934	1	Anguilla
5	5	true	AX	ALA	248	2021-05-10 17:16:46.342934	1	Åland Islands
6	6	true	AL	ALB	008	2021-05-10 17:16:46.342934	1	Albania
7	7	true	AD	AND	020	2021-05-10 17:16:46.342934	1	Andorra
8	8	true	AE	ARE	784	2021-05-10 17:16:46.342934	1	United Arab Emirates
9	9	true	AR	ARG	032	2021-05-10 17:16:46.342934	1	Argentina
10	10	true	AM	ARM	051	2021-05-10 17:16:46.342934	1	Armenia

```
1 SELECT * FROM public.country_subdivision
2 ORDER BY id ASC
```

Data Output Explain Messages Notifications

	 id [PK] integer 	active boolean 	code character varying 	country integer 	create_date timestamp without time zone 	create_uid integer 	name character varying 	parent integer 	type character varying 
1	1	true	AD-02	7	2021-05-10 17:16:48.759114	1	Canillo	[null]	parish
2	2	true	AD-03	7	2021-05-10 17:16:48.759114	1	Encamp	[null]	parish
3	3	true	AD-04	7	2021-05-10 17:16:48.759114	1	La Massana	[null]	parish

## « Country » - Load data

Administration / Countries

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FILTERS Search 🔍 ☆

<input type="checkbox"/> Name	Code
<input type="checkbox"/> Afghanistan	AF
<input type="checkbox"/> Åland Islands	AX
<input type="checkbox"/> Albania	AL
<input type="checkbox"/> Algeria	DZ
<input type="checkbox"/> American Samoa	AS
<input type="checkbox"/> Andorra	AD
<input type="checkbox"/> Angola	AO

- > \$ Currency
- ✓ > ⚙ Administration
  - > 📁 Users
  - > 📁 Sequences
  - > 📁 Modules
  - > 📁 Localization
  - > 🚩 Countries
  - > 📁 User Interface
  - > 📁 Models
  - > 📁 Scheduler

## « Currency » - Load data

```
PS C:\Users\mrmar\docker.tryton.6.0> ./"Tryton 6.0 - Doc 05.01 - Basic functionality.import.tryt11.currencies
-----
1. Import
-----
/usr/lib/python3/dist-packages/werkzeug/routing.py:1431: DeprecationWarning: invalid escape sequence \s
"""
/usr/lib/python3/dist-packages/passlib/context.py:231: DeprecationWarning: invalid escape sequence \;
    elif any(c in source for c in "\n\r\t") or not source.strip(" \t./\;:"):
/usr/lib/python3/dist-packages/passlib/context.py:2240: DeprecationWarning: invalid escape sequence \*
"""
/usr/lib/python3/dist-packages/passlib/context.py:2323: DeprecationWarning: invalid escape sequence \*
"""
/usr/lib/python3/dist-packages/passlib/context.py:2406: DeprecationWarning: invalid escape sequence \*
"""
/usr/lib/python3/dist-packages/ldap3/utils/ciDict.py:30: DeprecationWarning: Using or importing the ABCs from
    class CaseInsensitiveDict(collections.MutableMapping):
/usr/lib/python3/dist-packages/pyasn1/type/constraint.py:130: DeprecationWarning: invalid escape sequence \*
"""
/usr/lib/python3/dist-packages/pyasn1/type/constraint.py:175: DeprecationWarning: invalid escape sequence \*
"""
/usr/lib/python3/dist-packages/pyasn1/type/constraint.py:334: DeprecationWarning: invalid escape sequence \*
"""
/usr/lib/python3/dist-packages/pyasn1/type/constraint.py:494: DeprecationWarning: invalid escape sequence \*
"""
/usr/lib/python3/dist-packages/pyasn1/type/constraint.py:538: DeprecationWarning: invalid escape sequence \*
"""
/usr/lib/python3/dist-packages/pyasn1/type/namedval.py:54: DeprecationWarning: invalid escape sequence \*
"""
/usr/lib/python3.7/importlib/_bootstrap.py:219: ImportWarning: can't resolve package from __spec__ or __packa
    return f(*args, **kws)
/usr/lib/python3/dist-packages/zeep/xsd/visitor.py:428: DeprecationWarning: invalid escape sequence \[
    match = re.match('([^\[]+)', array_type)
/usr/lib/python3/dist-packages/PyPDF2/generic.py:357: DeprecationWarning: invalid escape sequence \c
    tok = b_("\c")
Update currencies
```

## « Currency » - Load data

```
1 SELECT * FROM public.currency_currency
2 ORDER BY id ASC
```

Data Output Explain Messages Notifications

	id [PK] integer	active boolean	code character varying (3)	create_date timestamp without time zone	create_uid integer	digits integer	name character varying	numeric_code character varying (3)	rounding numeric	symbol character
1	1	true	AED	2021-05-10 17:15:09.702605	1	2	UAE Dirham	784	0.01	د.إ.
2	2	true	AFN	2021-05-10 17:15:09.702605	1	2	Afghani	971	0.01	Afs
3	3	true	ALL	2021-05-10 17:15:09.702605	1	2	Lek	008	0.01	L
4	4	true	AMD	2021-05-10 17:15:09.702605	1	2	Armenian Dram	051	0.01	AMD
5	5	true	ANG	2021-05-10 17:15:09.702605	1	2	Netherlands Antillean ...	532	0.01	NAf
6	6	true	AOA	2021-05-10 17:15:09.702605	1	2	Kwanza	973	0.01	Kz
7	7	true	ARS	2021-05-10 17:15:09.702605	1	2	Argentine Peso	032	0.01	\$
8	8	true	AUD	2021-05-10 17:15:09.702605	1	2	Australian Dollar	036	0.01	\$
9	9	true	AWG	2021-05-10 17:15:09.702605	1	2	Aruban Florin	533	0.01	f
10	10	true	AZN	2021-05-10 17:15:09.702605	1	2	Azerbaijani Manat	944	0.01	AZN

```
1 SELECT * FROM public.currency_currency_rate
2 ORDER BY id ASC
```

Data Output Explain Messages Notifications

	id [PK] integer	create_date timestamp without time zone	create_uid integer	currency integer	date date	rate numeric	write_date timestamp without time zone	write_uid integer

## « Currency » - Load data

Currency / Currencies -

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FILTERS Search

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<input type="checkbox"/> Name	Symbol	Code	Numeric Code	Current rate
<input type="checkbox"/> UAE Dirham	₪	AED	784	0.000000
<input type="checkbox"/> Afghani	Afs	AFN	971	0.000000
<input type="checkbox"/> Lek	L	ALL	008	0.000000



# « Currency Rates »

# Motivation

- Multi-currency operations are supported
- In this is required, we need to define the rates for :
  - A « Reference Currency Rate » ; that rate will be 1.0
  - One or more « Relative Currency Rates » ; those rates will be relative to the reference rate.
- Exemple :
  - Our reference currency is EUR : its rate is 1.0
  - One or our relative currencies is USD : ist rate is 1.2 (2021)
- For each relative currency, we define as many dates as we want considering those dates are « Dates From » for the relative rate applicable from that moment onward.

## Setting a « Reference Currency Rate » as of « Date from »



FILTERS Search

<input type="checkbox"/>	Name	Symbol	Code	Numeric Code	Current rate
<input checked="" type="checkbox"/>	Euro	€	EUR	978	0.000000



Name: Euro Symbol: € Active: ☒

Code: EUR Numeric Code: 978

Rounding factor: 0.01 Digits: 2 Cash Rounding Factor:

Rates

Current rate: 1.000000

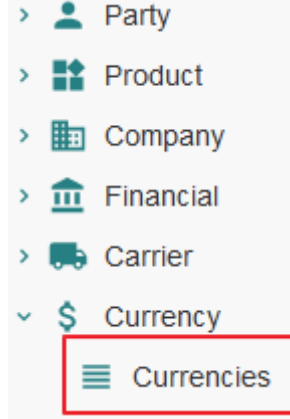


<input type="checkbox"/>	Date	Rate
<input checked="" type="checkbox"/>	2021-01-01	1.000000



FILTERS Search

<input type="checkbox"/>	Name	Symbol	Code	Numeric Code	Current rate
<input checked="" type="checkbox"/>	Euro	€	EUR	978	1.000000



« EUR » is our « Reference Currency Rate ».  
Hence we set the rate at value 1.0

## Setting « Relative Currency Rates » as of « Date from »

Currencies

143 / 1...

FILTERS Search

Name	Symbol	Code	Numeric Code	Current rate
<input checked="" type="checkbox"/> US Dollar	US\$	USD	840	0.000000

Name: US Dollar Symbol: US\$ Active: ☒

Code: USD Numeric Code: 840

Rounding factor: 0.01 Digits: 2 Cash Rounding Factor:

Rates

Current rate: 1.200000

Rates

1 / 1

Date	Rate
<input checked="" type="checkbox"/> 2021-01-01	1.200000

Currencies

143 / 1...

FILTERS Search

Name	Symbol	Code	Numeric Code	Current rate
<input checked="" type="checkbox"/> US Dollar	US\$	USD	840	1.200000

Party

Product

Company

Financial

Carrier

Currency

Currencies

- « USD » is used in our « Company »
- So one of the « Relative Currency Rates » pertains to that « Currency ». Hence we set the rate at value 1.2 as of 2021-01-01 with respect to the « EUR »
- We can define additional « Relative Currency Rates »
  - For other currencies
  - For other « Date from » values

# Summary

Currency / Currencies

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<input checked="" type="checkbox"/> Name	Symbol	Code	Numeric Code	Current rate
<input checked="" type="checkbox"/> Euro	€	EUR	978	1.000000
<input checked="" type="checkbox"/> US Dollar	US\$	USD	840	1.200000

1 SELECT \* FROM public.currency\_currency\_rate

2 ORDER BY id ASC

Data Output

Explain

Messages

Notifications

	id [PK] integer	create_date timestamp without time zone	create_uid integer	currency integer	date date	rate numeric	write_date timestamp
1	1	2021-05-10 17:35:12.065998	1	44	2021-01...	1	[null]
2	2	2021-05-10 17:35:55.088161	1	143	2021-01...	1.2	[null]

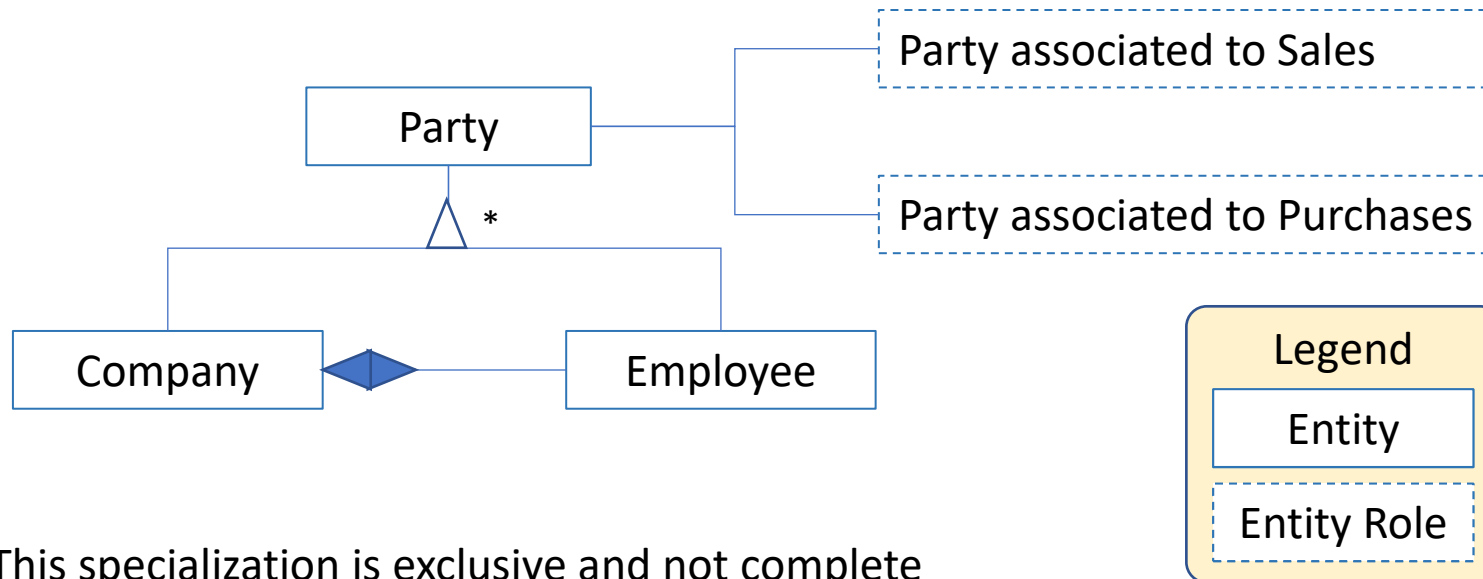
- > Party
- > Product
- > Company
- > Financial
- > Carrier
- > Currency
  - Currencies

« Party » & « Company » & « Employee »

# Motivation

We activate modules and create database content related to the following entities :

1. « Party » : an entity that represents some ERP-relevant actor
2. « Company » : a specialized « Party » entity
3. « Employee » : a specialized « Party » entity
4. « Parties associated to Sales » : a « Party » role (activated and installed later)
5. « Parties associated to Purchases » : a « Party » role (activated and installed later)



# Motivation

## « User » vs. « Party »

- A « User » is a user of the system with login and password.
- A « User » is not a « Party ».
- A « User » is not necessarily an « Employee » of the « Company ». F.i. he/she can be a consultant.
- The default user is « admin ».

	id [PK] integer	name character varying	active boolean	login character varying
1	0	Root	false	root
2	1	Administrator	true	admin
3	2	Marc	true	marc

The content of the « res\_user » database table with « User » entities

Query Editor   Query History

1   SELECT \* FROM public.party\_party  
2   ORDER BY id ASC

Data Output   Explain   Messages   Notifications

	id [PK] integer	active boolean	code character varying	create_date timestamp without time zone	create_uid integer	name character varying
1	1	true	1	2021-03-08 10:36:31.925876	1	COM01
2	2	true	2	2021-03-08 10:50:59.083771	1	EMP01
3	3	true	3	2021-03-09 09:44:48.52222	1	SUP01

The content of the « party\_party » database table with « Company », « Employee » and « Supplier » (installed later) entities



« Party »

# Motivation

A « Party » is an entity that stands for the common properties of a specialized entity such as « Company », « Employee », or a role entity like « Party associated to Purchase », etc.

We activate the modules that relate to « Party ». Subsequently, we define specialized parties :

The first approach :

- First define a « Party » with the idea that it will be referenced by a specialized entity.
- Subsequently define the specialized entity (e.g. a « Company ») with reference to its « Party » parent.

The second approach :

- Define the specialized entity like « Company »
- Doing so, the system lets you create the « Party » entity on the fly

# Module Activation

# Documentation

[<https://docs.tryton.org/en/latest/party.html#index-party>]

# Modules - Activation

We ensure that all « Party » modules are activated

The image displays two screenshots of a software interface for managing modules. Both screenshots show a table of modules under the 'Administration / Modules' header, filtered by 'party'. The top screenshot shows modules in a 'Not Activated' state, and the bottom screenshot shows them in a 'To be activated' state. In both, a context menu is open over the table, highlighting a specific action.

**Top Screenshot:**

- Header: Administration / Modules
- Filters: party
- Table columns: Name, Version, State, M, U
- Table data:

Name	Version	State	M	U
party	6.0.0	Not Activated		
party_avatar	6.0.0	Not Activated		
party_relationship	6.0.0	Not Activated		
party_siret	6.0.0	Not Activated		

- Context menu actions: Perform Pending Activation/Upgrade, Mark for Activation (highlighted), Translate view
- Buttons: MARK FO...

**Bottom Screenshot:**

- Header: Administration / Modules
- Filters: party
- Table columns: Name, Version, State, M, U, C
- Table data:

Name	Version	State	M	U	C
party	6.0.0	To be activat...			
party_avatar	6.0.0	To be activat...			
party_relationship	6.0.0	To be activat...			
party_siret	6.0.0	To be activat...			

- Context menu actions: Perform Pending Activation/Upgrade (highlighted), Cancel Activation, Translate view
- Buttons: CANCEL A...

# Modules - Activation

We ensure that all « Party » modules are activated

Administration / Modules

FILTERS party

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<input type="checkbox"/> Name	Version	State	Mark for Upgrade	Mark for Activation	Cancel Activation
<input type="checkbox"/> party_relationship	6.0.0	Activated	MARK FO...		
<input type="checkbox"/> party	6.0.0	Activated	MARK FO...		
<input type="checkbox"/> party_siret	6.0.0	Activated	MARK FO...		
<input type="checkbox"/> party_avatar	6.0.0	Activated	MARK FO...		

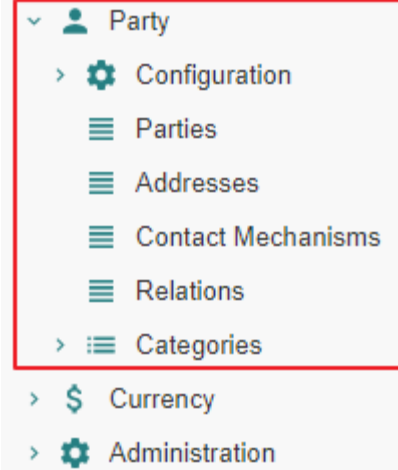
- > party\_address
- > party\_address\_format
- > party\_address\_subdivision\_type
- > party\_category
- > party\_category\_rel
- > party\_configuration
- > party\_configuration\_party\_lang
- > party\_configuration\_party\_sequence
- > party\_contact\_mechanism
- > party\_contact\_mechanism\_language
- > party\_identifier
- > party\_party
- > party\_party\_lang
- > party\_relation
- > party\_relation\_type

« Party » - The entity

## « Party »

Although the « Party » modules are activated and accessible, we defer using them, after activating respectively :

- « Party Specializations » like « Company », « Employee » or
- « Party Roles » like « Parties associated with Sales or Purchases »



Party / Parties ▾

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Name: \_\_\_\_\_ Code: \_\_\_\_\_ Active: ☒

General Identifiers Relations

Addresses

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Party Name: \_\_\_\_\_ Active: ☒ Sequence: \_\_\_\_\_

Building Name: \_\_\_\_\_ SIRET NIC: \_\_\_\_\_ SIRET: \_\_\_\_\_

Street: \_\_\_\_\_

Postal Code: \_\_\_\_\_ City: \_\_\_\_\_

Country: \_\_\_\_\_ Subdivision: \_\_\_\_\_

Language: ▾



## « Party » Configuration

## « Party » Configuration

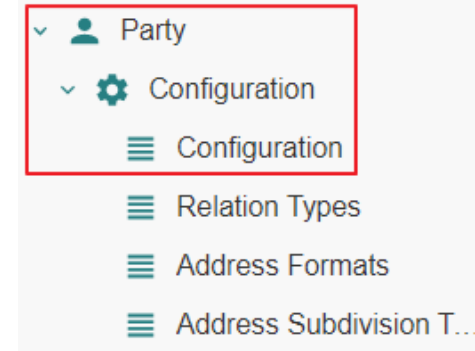
Party / Configuration ▾

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Party Sequence: ☒ Party × Party Language: English

Identifier Types:

- Austrian Tax Identification
- Belarus VAT Number
- Belgian Enterprise Number**
- Brazilian Company Identifier
- Brazilian National Identifier

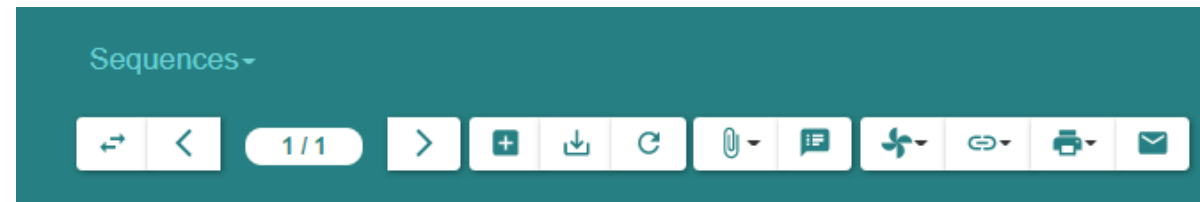


- The Party Sequence
- The Party Identifier Type
- The Party Language

## « Party » Configuration : the sequence format



<input type="checkbox"/> Sequence Name	Sequence Code	Type
<input checked="" type="checkbox"/> Party	Party	Incremental



**Sequence Name:** Party ✕

**Sequence Code:** Party ▼ **Active:** ☒

**Prefix:**  **Suffix:**

**Type:** Incremental ▼

Incremental

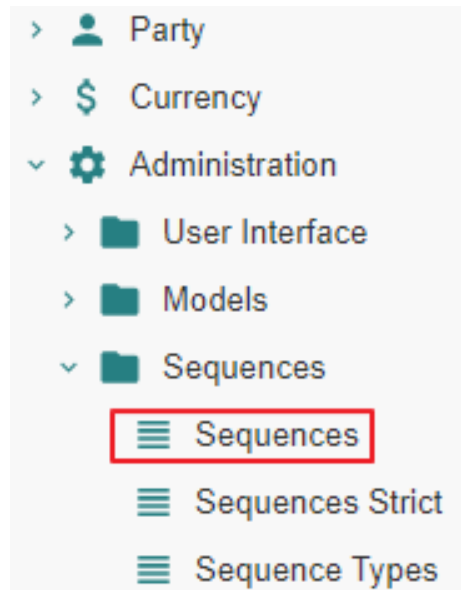
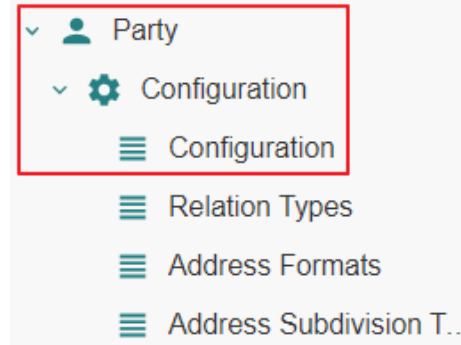
**Number padding:**  **Increment Number:**

**Next Number:**

Legend (Placeholders for prefix, suffix)

Year: \${year}  
Month: \${month}  
Day: \${day}

**It is possible to integrate  
this information within the  
prefix or the suffix number**

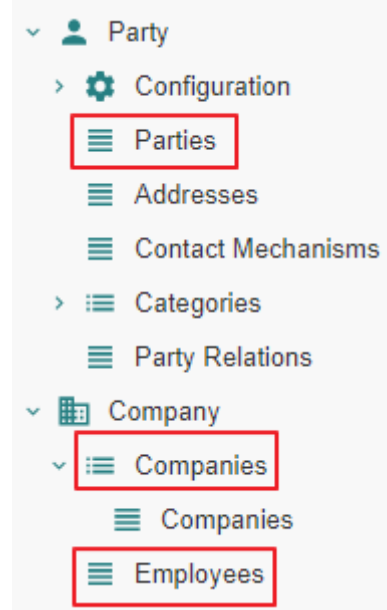


Definition accessible thru  
« Party Configuration » or  
« Administration Sequences »

# Creation of Parties

## « Party », « Company » & « Employee »

- A « Party » is an entity.
- Its subentities are of type « Company », « Employee », etc.
- We can define these entities in two ways :
- **Method 1 :**
  - We define a « Party » « X » or « Y » by clicking on « Parties », and fill their properties conformant those inherited by the subentity
  - Subsequently, we define :
    - The « Company » « X » by referencing its corresponding « Party » « X »
    - The « Employee » « Y » by referencing its corresponding « Party » « Y »
- **Method 2 :**
  - We define the « Company » « X » by clicking on « Companies » and in doing so we create « Party » « X » in the process
  - We define the « Employee » « Y » by clicking on « Employees » and in doing so we create « Party » « Y » in the process
- We will use Method 1 for defining a « Company » COM01
- We will use Method 2 for defining an « Employee » EMP01



« Company »

# Modules - Activation

We ensure that all « Company » modules are activated

Administration / Modules -

FILTERS company

Perform Pending Activation/Upgrade

Mark for Activation

Translate view

<input checked="" type="checkbox"/>	Name	Version	State	M	U
<input checked="" type="checkbox"/>	company	6.0.0	Not Activated		MARK FO...
<input checked="" type="checkbox"/>	company_work_time	6.0.0	Not Activated		MARK FO...

Administration / Modules -

FILTERS company

Perform Pending Activation/Upgrade

Cancel Activation

Translate view

<input checked="" type="checkbox"/>	Name	Version	State	M	U
<input checked="" type="checkbox"/>	company	6.0.0	To be activat...		CANCELA
<input checked="" type="checkbox"/>	company_work_time	6.0.0	To be activat...		CANCELA

Administration / Modules -

FILTERS company

Search ☆

<input type="checkbox"/>	Name	Version	State	Mark for Upgrade	Mark for Activation	Cancel Activation
<input type="checkbox"/>	company	6.0.0	Activated	MARK FO...		
<input type="checkbox"/>	company_work_time	6.0.0	Activated	MARK FO...		

# Modules - Activation - Summary State

- Party
  - Configuration
    - Parties
    - Addresses
    - Contact Mechanisms
    - Relations
  - Categories
- Company
  - Companies
  - Employees
- Currency
  - Currencies
  - Scheduled Rate Updates
- Administration
  - Users
  - Sequences
  - Modules
  - Localization
    - Countries
  - User Interface
  - Models
  - Scheduler

Administration / Modules			
32 / 165			
FILTERS Search			
<input type="checkbox"/> Name	Version	State	Mark for Upgrade
<input type="checkbox"/> res		Activated	MARK FOR UP...
<input type="checkbox"/> party_relationship	6.0.0	Activated	MARK FOR UP...
<input type="checkbox"/> company_work_time	6.0.0	Activated	MARK FOR UP...
<input type="checkbox"/> company	6.0.0	Activated	MARK FOR UP...
<input type="checkbox"/> ir		Activated	MARK FOR UP...
<input type="checkbox"/> country	6.0.0	Activated	MARK FOR UP...
<input type="checkbox"/> currency	6.0.0	Activated	MARK FOR UP...
<input type="checkbox"/> party	6.0.0	Activated	MARK FOR UP...
<input type="checkbox"/> party_siret	6.0.0	Activated	MARK FOR UP...
<input type="checkbox"/> party_avatar	6.0.0	Activated	MARK FOR UP...

- Party
- Company
- Currency
- Administration
  - Users
  - Sequences
  - Modules
    - Modules
    - Config Wizard Items
  - Perform Pending Activation/Upgrade



# Create « Company » COM01

## Step 1

Create the « Party » COM01

**Party**

Name:  Code:  Active: ☒

General Identifiers Relations

**Addresses** ↔ < 1 / 1 >

Party Name:  Active: ☒ Sequence:

Building Name:  SIRET NIC:  SIRET:

Street:

Zip:  City:

Country:  Subdivision:

## Step 2

Create the « Company » subentity COM01 that references the « Party » entity COM01

**Companies** ↔ < 1 / 1 > + ↓ ↺ 📎 💬 🔄 🔗 🖨 ✉

Party: ☒ COM01 × Currency: ☒ Euro × Timezone:

Company Work Time Reports

Parent:

**Employees** ↔ < 0 / 0 > + 🔗 🗑 ↺

<input type="checkbox"/>	Party	Supervisor	Start Date	End Date
--------------------------	-------	------------	------------	----------

« Employee »

## Modules - Activation

- By activating the « Company » modules, both the « Company » and « Employee » parties are made available
- There are no « Employee » modules to activate

## Creating « Employee » EMP01

Employees

Party: EMP01 Company: COM01

Start Date: 2021-04-01 End Date:

Supervisor:

Party

Name: EMP01 Code: 2

General Identifiers Relations

Addresses

Party Name: EMP01

Building Name:

- > Party
- > Company
  - Companies
  - Employees
- > Currency
- > Administration

- We create « Employee » EMP01
- In the process,
  - We create its corresponding « Party » EMP01
  - We reference the existing « Company » COM01

## Creating « Employee » EMP01



FILTERS Search

<input checked="" type="checkbox"/> Party	Company
<input checked="" type="checkbox"/> EMP01	COM01

- The « Employee » appears now
  - In the list of employees
  - In the list of employees for « Company » COM01

Companies

Party: ☒ COM01    Currency: ☒ Euro    Timezone: Europe/Brussels

Company    Work Time    Reports

Parent:

Employees

<input type="checkbox"/> Party	Supervisor	Start Date	End Date
<input checked="" type="checkbox"/> EMP01		2021-04-01	






Final State

« Party », « Company », « Employee »

Party / Parties ▾

FILTERS Search

<input type="checkbox"/> Code	Name	Language	Tax Identifier	SIREN
<input type="checkbox"/> 1	 COM01	English		
<input type="checkbox"/> 2	 EMP01	English		

Company / Companies ▾

FILTERS Search

<input type="checkbox"/> Party	
<input type="checkbox"/>  COM01	

Company / Employees ▾

FILTERS Search

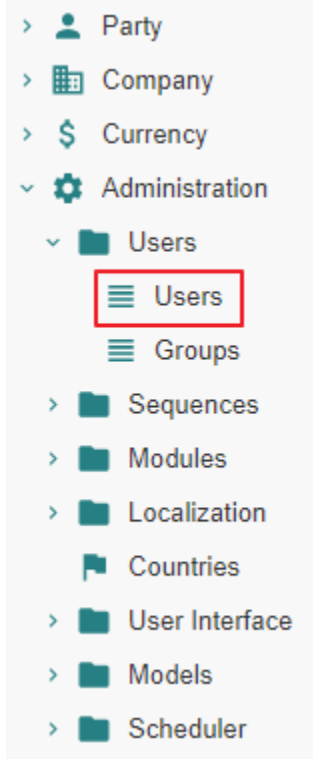
<input type="checkbox"/> Party	Company	Supervisor	Start Date	End Date
<input type="checkbox"/>  EMP01	COM01		2021-05-14	

« User »

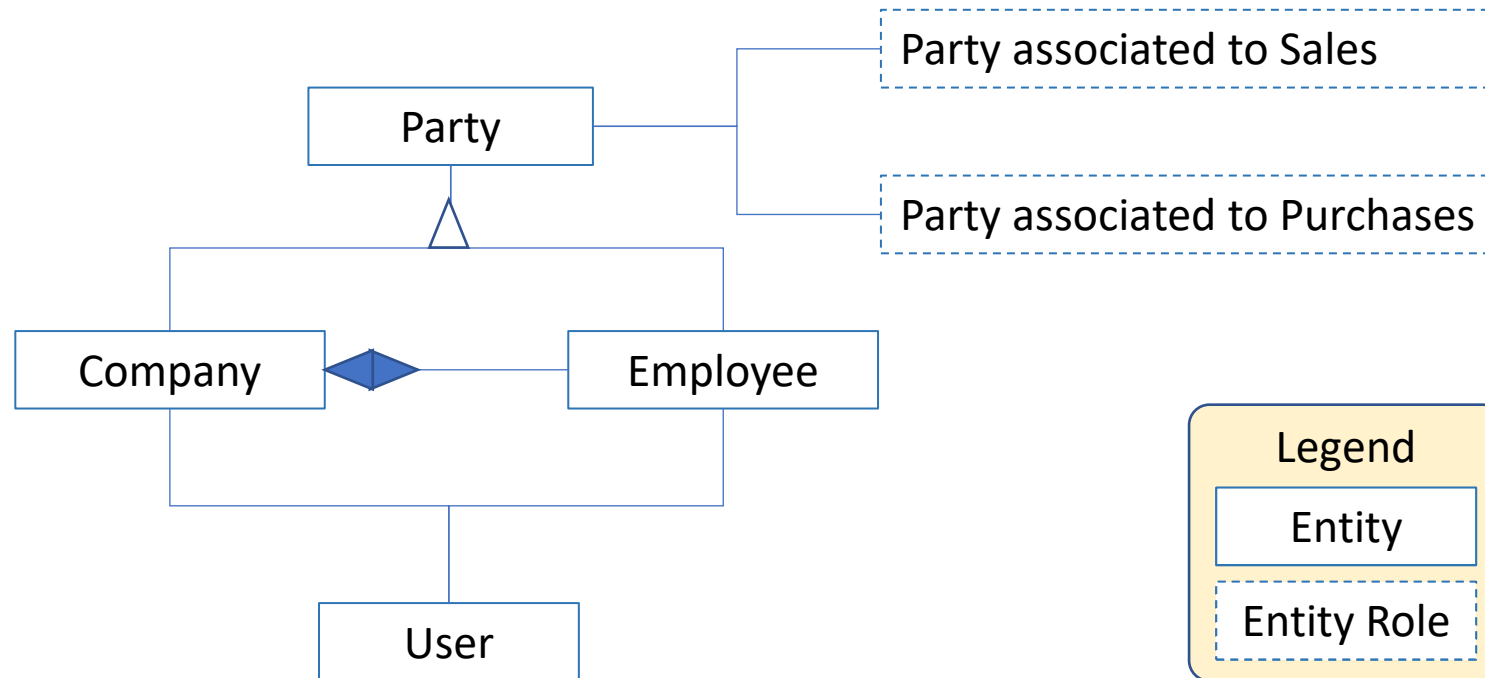


## « User » - Relationship to « Employee » and « Company »

- A « Company » aggregates « Employees », not « Users »
- An « Employee » is a « Party », a « User » is not
- A « User » references all « Company » and « Employee » he/she manages
- A « User » references a « Current Company » and a « Current Employee »
- A « User » is someone who logs into the system with user id and password
- The « User » - « Company » link allows installation and display of relevant company records
- For instance, the « admin » - « COM01 » link will authorize the creation of a « COM01 » Chart of Accounts



# Summary



« User » Administrator

## « User » - Relationship to « Employee » and « Company »

Administration / Users

Name: Administrator Active: ☒

Login: admin Email: x@gmail.com

Password: ..... SHOW RESET PASSWORD

User Actions Access Permissions Applications Preferences

Current Company: COM01

Company Filter: All

Companies

<input type="checkbox"/>	Party
<input checked="" type="checkbox"/>	COM01

Current Employee: EMP01

Employees

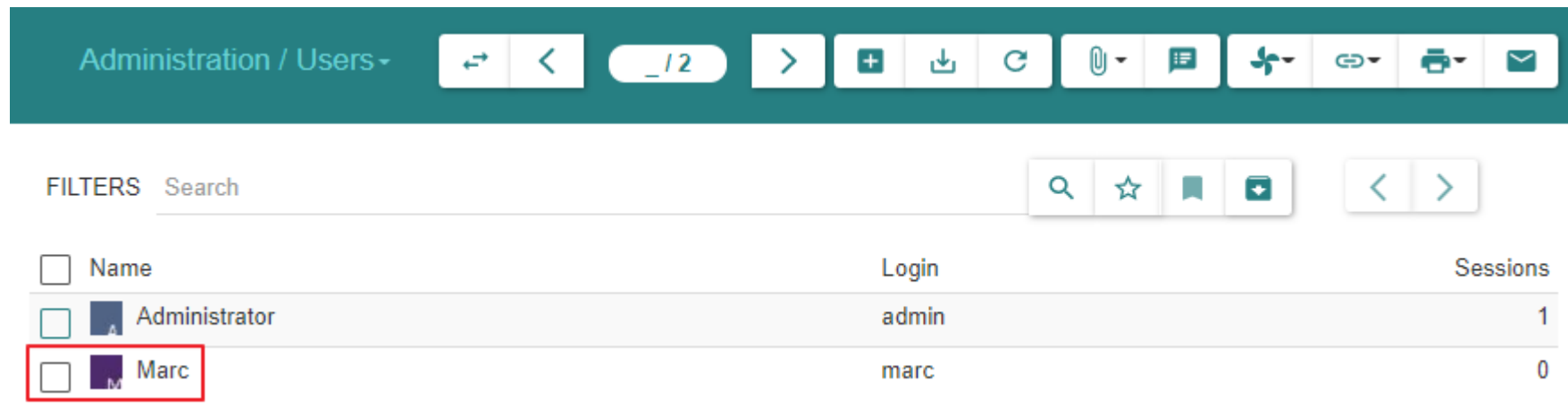
	Company	Supervisor	Start Date	End Date
<input type="checkbox"/>	Party			
<input checked="" type="checkbox"/>	EMP01		2021-05...	

- > Party
- > Company
- > Currency
- > Administration
  - > Users
    - Users**
    - Groups
  - > Sequences
  - > Modules
  - > Localization
  - > Countries
  - > User Interface
  - > Models
  - > Scheduler

« User » Marc

# Motivation

- We initially added « User Marc » using the « Initial Configuration Wizard »
- We now define « Employee EMP02 » for « Company COM01 »
- We link « User Marc » to him/her
- We briefly login then logout to see what is permitted
- Later on, all operations will be performed in this basic introduction with « User » « Administrator »



The screenshot shows a web interface for user management. At the top is a teal header bar with the text "Administration / Users" and a series of icons for navigation and actions. Below the header is a search bar with the label "FILTERS Search". To the right of the search bar are several icons for search, favorites, and navigation. Below the search bar is a table with three columns: "Name", "Login", and "Sessions". The table contains two rows: "Administrator" with login "admin" and 1 session, and "Marc" with login "marc" and 0 sessions. The "Marc" row is highlighted with a red box.

<input type="checkbox"/> Name	Login	Sessions
<input type="checkbox"/> Administrator	admin	1
<input type="checkbox"/> Marc	marc	0

# Motivation

We define « Employee EMP02 » for « Company COM01 »

Company / Employees

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✉

Party: EMP02

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Company: COM01

×

Start Date: 2021-05-14

📅

End Date:

📅

Supervisor:

🔍

Company / Companies

↔

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1 / 1

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✉

Party: COM01

×

Currency: Euro

×

Timezone: Europe/Brussels

▼

Employees

Work Time

Reports

Employees

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<input type="checkbox"/> Party	Supervisor	Start Date	End Date
<input type="checkbox"/> EMP01		2021-05-14	
<input type="checkbox"/> EMP02		2021-05-14	

# Motivation

- We link « User Marc » to « Employee EMP02 » for « Company COM01 »
- We login/logout with « User Marc » to display the current privileges
- We will explain later the « User Group » and « User Role » concepts used for attributing user privileges

Administration / Users

2 / 2

Name: Marc Active: ☒

Login: marc Email:

Password:  SHOW

User Actions Access Permissions Applications Preferences

Current Company: COM01 Company Filter: Current

Current Employee: EMP02

Companies

☐ Party ☒ COM01

Employees

<input type="checkbox"/> Party	Company	Supervisor	Start Date	End Date
<input checked="" type="checkbox"/> EMP02	COM01		2021-...	

Tryton

Action

Marc [EUR]

Logout

Party

- Parties
- Addresses
- Contact Mechanisms
- Relations
- Categories



« User » Paula

« User Administrator » creates then deactivates « User Paula »


Administration / Users ▾

1 / 3

Name: Paula Active: ☒

Login: paula Email:

Password: xxxxxxxxxxxx



Administration / Users ▾

- ↔ Switch
- < Previous
- > Next
- 🔍 Search
- + New
- 📁 Save
- 🔄 Reload/Undo
- 📄 Duplicate
- ☒ Delete

For logging purposes users cannot be deleted, instead they should be deactivated.

Administration / Users ▾

Name: Paula Active: ☐

Login: paula Email:

Password: xxxxxxxxxxxx

- User « Paula » is installed then deactivated
- A user cannot be deleted

« Financials »

« Chart of Accounts » & « Fiscal Year and Period » & « Journal »

# Chart of Account

We will install the « French » chart of accounts.

## Balance Sheet Accounts

#	French	English
40	Client	Customer
41	Fournisseur	Supplier
53	Caisse	Cash

## Income Statement Accounts

#	French	English
6x	Charges	Expense
7x	Revenus	Revenue

[[https://tryton-administration-manual.readthedocs.io/en/latest/basic\\_config.html#installing-a-chart-of-accounts](https://tryton-administration-manual.readthedocs.io/en/latest/basic_config.html#installing-a-chart-of-accounts)]

[<https://tryton-administration-manual.readthedocs.io/en/latest/accounts.html>]

# Activating Modules

# Activation

Administration / Modules ▾

FILTERS account or bank

✓ Name	Version	State
✓ account	6.0.0	Not Activated
✓ account_asset	6.0.0	Not Activated
✓ account_be	6.0.0	Not Activated
✓ account_cash_rounding	6.0.0	Not Activated
✓ account_credit_limit	6.0.0	Not Activated
✓ account_deposit	6.0.0	Not Activated
✓ account_de_skr03	6.0.0	Not Activated
✓ account_dunning	6.0.0	Not Activated
✓ account_dunning_email	6.0.0	Not Activated
✓ account_dunning_fee	6.0.0	Not Activated
✓ account_dunning_letter	6.0.0	Not Activated
✓ account_es	6.0.0	Not Activated
✓ account_eu	6.0.0	Not Activated
✓ account_fr	6.0.0	Not Activated
✓ account_fr_chorus	6.0.0	Not Activated
✓ account_invoice	6.0.0	Not Activated
✓ account_invoice_correction	6.0.0	Not Activated
✓ account_invoice_defer	6.0.0	Not Activated
✓ account_invoice_history	6.0.0	Not Activated
✓ account_invoice_line_standalone	6.0.0	Not Activated
✓ account_invoice_secondary_unit	6.0.0	Not Activated
✓ account_invoice_stock	6.0.0	Not Activated

- « Mark for Activation »
- « Perform pending activation or upgrade »

✓ account_payment	6.0.0	Not Activated
✓ account_payment_braintree	6.0.0	Not Activated
✓ account_payment_clearing	6.0.0	Not Activated
✓ account_payment_sepa	6.0.0	Not Activated
✓ account_payment_sepa_cfonb	6.0.0	Not Activated
✓ account_payment_stripe	6.0.0	Not Activated
✓ account_product	6.0.0	Not Activated
✓ account_statement	6.0.0	Not Activated
✓ account_statement_aeb43	6.0.0	Not Activated
✓ account_statement_coda	6.0.0	Not Activated
✓ account_statement_ofx	6.0.0	Not Activated
✓ account_statement_rule	6.0.0	Not Activated
✓ account_stock_anglo_saxon	6.0.0	Not Activated
✓ account_stock_continental	6.0.0	Not Activated
✓ account_stock_landed_cost	6.0.0	Not Activated
✓ account_stock_landed_cost_weight	6.0.0	Not Activated
✓ account_tax_cash	6.0.0	Not Activated
✓ account_tax_rule_country	6.0.0	Not Activated
✓ analytic_account	6.0.0	Not Activated
✓ bank	6.0.0	Not Activated

# Activation & Create Chart of Accounts

## Perform Pending Activation/Upgrade (account\_cash\_rounding, account\_



Your system will be upgraded.  
Note that this operation may take a few minutes.

### Modules to update

account\_statement\_coda: to activate  
account\_statement\_ofx: to activate  
account\_statement\_rule: to activate  
account\_stock\_anglo\_saxon: to activate  
account\_stock\_continental: to activate  
account\_stock\_landed\_cost: to activate  
account\_stock\_landed\_cost\_weight: to activate  
account\_tax\_cash: to activate  
account\_tax\_rule\_country: to activate  
analytic\_account: to activate  
bank: to activate  
product: to activate  
product\_measurements: to activate  
stock: to activate  
stock\_shipment\_measurements: to activate

**Additional  
modules are  
activated**

## Perform Pending Activation/Upgrade (account\_be, account\_credit\_limit, account...



The modules have been upgraded / activated.

✓ OK

## Create Chart of Accounts from Template

Company: COM01

Account Template: Plan comptable (French)

✕ CANCEL

✓ CREATE

## Create Chart of Accounts from Template

Default Receivable Account: ☒ 4111 - Clients - Ventes de biens ou de prestations ✕

Default Payable Account: ☒ 4011 - Fournisseurs - Achats de biens et prestatio ✕

Category

Default Revenue Account: ☒ 7011 - Produits finis (ou groupe) A ✕

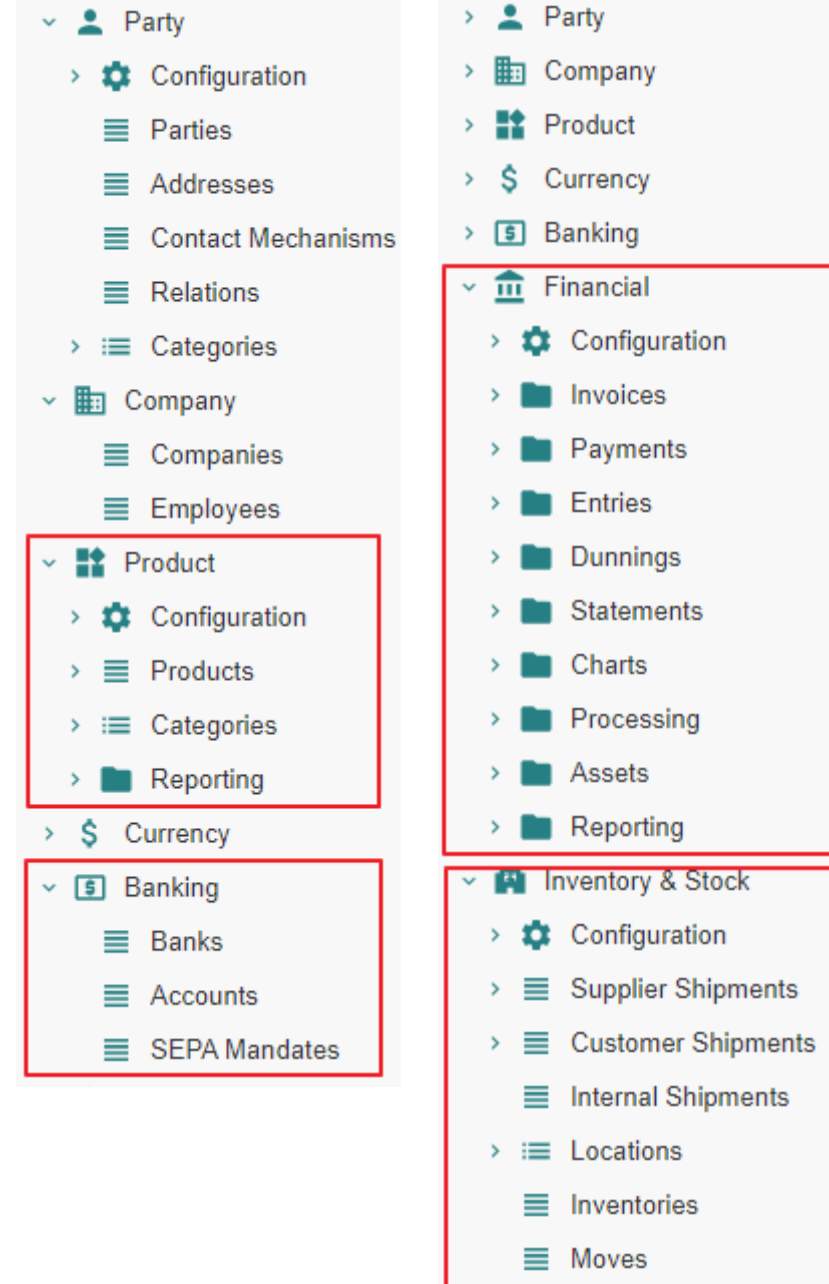
Default Expense Account: ☒ 6011 - Matières (ou groupe) A ✕

✕ CANCEL

✓ CREATE




















# State - Menu Tree Items

There are additional Menu Items in the Menu Tree





## 76

- >  Party
- >  Company
- >  Product
- >  Currency
- >  Banking
- >  Financial
- >  Inventory & Stock
- ▼  Administration
  - >  Users
  - ▼  Sequences
    -  Sequences
    -  Sequences Strict
    -  Types
  - >  Modules
  - >  Localization
    -  Countries
  - >  User Interface
  - >  Models
  - >  Scheduler

Administration / Sequences

↔ < 1 / 12 > + ↓ ↺ 📎 💬 🌀 🔗 🖨️ ✉️

FILTERS Search

🔍 ☆ 📖 ➕

< >

<input type="checkbox"/> Sequence Name	Sequence Type	Company	Type
<input type="checkbox"/> Party	Party		Incremental
<input type="checkbox"/> Default Account Journal	Account Journal		Incremental
<input type="checkbox"/> Default Account Move Reconciliation	Account Move Reconciliation		Incremental
<input type="checkbox"/> Customer Shipment	Customer Shipment		Incremental
<input type="checkbox"/> Supplier Shipment	Supplier Shipment		Incremental
<input type="checkbox"/> Internal Shipment	Internal Shipment		Incremental
<input type="checkbox"/> Customer Return Shipment	Customer Return Shipment		Incremental
<input type="checkbox"/> Supplier Return Shipment	Supplier Return Shipment		Incremental
<input type="checkbox"/> Inventory	Inventory		Incremental
<input type="checkbox"/> Asset	Asset		Incremental
<input type="checkbox"/> Default Account Payment Group	Account Payment Group		Incremental
<input type="checkbox"/> Landed Cost	Landed Cost		Incremental

# State - Wizards

The « Create Chart of Accounts from Template » wizard Item is added in state « done »

Administration / Modules / Config Wizard Items ▾

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FILTERS

Search

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>

<input type="checkbox"/> <b>Action</b>	Sequence	State
<input type="checkbox"/> Configure Languages	10	Done
<input type="checkbox"/> Configure Users	10	Done
<input type="checkbox"/> Configure Company	10	Done
<input type="checkbox"/> Create Chart of Accounts from Template	10	Done
<input type="checkbox"/> Configure Modules	10,000	Done

> 👤 Party

> > 📅 Company

> > 📦 Product

> > 💰 Currency

> > 🏦 Banking

> > 🏠 Financial

> > 📦 Inventory & Stock

> ⚙ Administration

> 📁 Users

> 📁 Sequences

> 📁 Modules

≡ Modules

≡ Config Wizard Items

🌀 Perform Pending Activatio...

> 📁 Localization

> 📁 Countries

> 📁 User Interface

> 📁 Models

> 📁 Scheduler

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# State - Chart of Accounts - Account Types

Financial / Configuration / General Account / Account Types

FILTERS Search

☐ Name

☒ > Plan de types de compte (France)

Financial / Configuration / General Account / Account Types

Navigation icons: back, forward, search, etc.

FILTERS Search

☐ Name

- ☐ > Plan de types de compte (France)
  - ☐ > Actif
    - ☐ Capital souscrit - non appelé
    - ☐ > Actifs immobilisés
    - ☐ > Actif circulant
    - ☐ Charges à répartir sur plusieurs exercices
    - ☐ Primes de remboursement des emprunts
    - ☐ Écarts de conversion actif
  - ☐ > Passif
    - ☐ > Capitaux propres
    - ☐ > Provisions
    - ☐ > Dettes
    - ☐ Écarts de conversion passif
  - ☐ > Hors bilan
    - ☐ Comptes de liaison des établissements et sociétés en participation
    - ☐ Comptes d'attente

- > Party
- > Company
- > Product
- > Currency
- > Banking
- > Financial
  - > Configuration
    - Configuration
  - > Templates
  - > General Account
    - Account Types
    - Account Types
  - > Accounts
    - Accounts

# State - Chart of Accounts - Accounts

Financial / Configuration / General Account / Accounts ▾

1 / 1

FILTERS Search

<input type="checkbox"/> Record Name	Company	Type
<input checked="" type="checkbox"/> ▾ Plan comptable (France)	COM01	Plan de types de compte (France)
<input type="checkbox"/> ▸ 1 - Comptes de capitaux	COM01	
<input type="checkbox"/> ▸ 2 - Comptes d'immobilisations	COM01	
<input type="checkbox"/> ▸ 3 - Comptes de stocks et d'en-cours	COM01	
<input type="checkbox"/> ▸ 4 - Comptes de tiers	COM01	
<input type="checkbox"/> ▸ 5 - Comptes financiers	COM01	
<input type="checkbox"/> ▸ 6 - Comptes de charges	COM01	
<input type="checkbox"/> ▸ 7 - Comptes de produits	COM01	
<input type="checkbox"/> ▸ 8 - Comptes spéciaux	COM01	

- > Party
- > Company
- > Product
- > Currency
- > Banking
- ✓ Financial
  - Configuration
    - Configuration
    - Templates
    - General Account
      - Account Types
        - Account Types
        - Accounts
        - Accounts

Financial / Configuration / General Account / Accounts ▾

1 / 1

Name: Plan comptable (France) Code: Active: ☒ Override Template: ☐

General Information Children Deferrals Note

Company: COM01 × Parent:

Type: Plan de types de Debit Type: Closed: ☐ General Ledger Balance: ☐

Start Date: End Date:

Currency: Euro

Reconcile: ☐

# State - Configuration

Financial / Configuration

Party

Default Account Receivable:

☒ 4111 - Clients - Ventes de biens ou de prestations de services

X

Default Account Payable:

☒ 4011 - Fournisseurs - Achats de biens et prestations de services

X

Default Customer Payment Term:

Q

Product

Default Account Revenue:

☒ 7011 - Produits finis (ou groupe) A

X

Default Account Expense:

☒ 6011 - Matières (ou groupe) A

X

Credit Limit

Default Credit Limit Amount:

Invoice

Default Customer Tax Rule:

Q

Default Supplier Tax Rule:

Q

Tax Rounding:

Per Document

Move

Reconciliation Sequence:

☒ Default Account Move Reconciliation

X

Dunning

Default Dunning Procedure:

Q

Fall-back User:

Q

Stock

Stock Journal:

☒ Stock

X

Deferred

Deferred Account Revenue:

Q

Deferred Account Expense:

Q

Payment

Group Sequence

☒ Default Account Payment Group

X

Landed Cost

Sequence

☒ Landed Cost

X

Chorus

Chorus Login:

Chorus Password:

SHOW

Chorus Service:

Chorus Syntax:

Asset

Sequence

☒ Asset

X

Depreciation Frequency

Monthly

- > Party
- > Company
- > Product
- > Currency
- > Banking
- > Financial
  - > Configuration
    - Configuration

Part of the  
« Configuration »  
is now defined

## State - Company

Notice :

- The « Create Chart of Accounts from Template » wizard Item is « done »
- The « Company COM01 » has no « Accounting » Tab
- There are additional Menu Items in the Menu Tree

Error Case

## Error case - « Administration » User not setup

- This situation occurs when the « Administration » user is not properly set up
- The user must be linked to « Company COM01 » and « Employee EMP01 »

Create Chart of Accounts from Template

*i* You can now create a chart of account for your company by selecting a chart of ac

Create Chart of Accounts from Template

Company: COM01

Account Template: Plan comptable (French)

Create Chart of Accounts from Template

Company: COM01

Account Template: Plan comptable (French)

**You are not allowed to create records of "Account Type" because they fail on at least one of these rules: User in company**

Users

Name: Administrator Active: ☒

User Actions Access Permissions Applications Preferences

Login: admin Email: x@g.c

Password: ..... SHOW RESET PASSWORD

Main Company: Current Company:

Current Employee: Current Warehouse:

Employees

<input type="checkbox"/> Party	Company	Supervisor	Start Date	End Date
--------------------------------	---------	------------	------------	----------



# How to recover

We set the link to company « COM01 » & employee « EMP01 »

Administration / Users

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✉

Name: Administrator

Active: ☒

Login: admin

Email: x@gmail.com

Password: .....

SHOW

RESET PASSWORD

⬇

✕

User

Actions

Access Permissions

Applications

Preferences

Current Company: COM01

Current Employee: EMP01

Company Filter: All

Current Warehouse:

Companies

☐ Party

☒ COM01

Employees

☐ Party

☒ EMP01

Company

Supervisor

Start Date

End Date

COM01

2021-...

- > Party
- > Company
- > Product
- > Currency
- > Banking
- > Financial
- > Inventory & Stock
- > Administration
  - > Users
    - Users
    - Groups

# How to recover - method 1

> Party

> Company

> Product

> Currency

> Banking

> Financial

> Inventory & Stock

> Administration

> Users

> Sequences

> Modules

Modules

Config Wizard Items

Perform Pending Activation/Upgrade

Administration / Modules / Config Wizard Items

4 / 5

FILTERS Search

Action	Sequence	State
<input type="checkbox"/> Configure Languages	10	Done
<input type="checkbox"/> Configure Users	10	Done
<input type="checkbox"/> Configure Company	10	Done
<input checked="" type="checkbox"/> Create Chart of Accounts from Template	10	Done
<input type="checkbox"/> Configure Modules	10,000	Done

DoneOpen

Config Wizard Items

4 / 5

FILTERS Search

Action	Sequence	State
<input type="checkbox"/> Configure Languages	10	Done
<input type="checkbox"/> Configure Users	10	Done
<input type="checkbox"/> Configure Company	10	Done
<input checked="" type="checkbox"/> Create Chart of Accounts from Template	10	Open
<input type="checkbox"/> Configure Modules	10,000	Done

Module Configuration

Translate view

Create Chart of Accounts from Template

Company: COM01

Account Template: Plan comptable (French)

CANCEL

CREATE

- We modify the wizard state from « done » to « open »
- We perform « Module Configuration »

Create Chart of Accounts from Template

Default Receivable Account:

4111 - Clients - Ventes de biens ou de prestations

X

Default Payable Account:

4011 - Fournisseurs - Achats de biens et prestatio

X

Category

Default Revenue Account:

7011 - Produits finis (ou groupe) A

X

Default Expense Account:

6011 - Matières (ou groupe) A


X


CANCEL

CREATE

## How to recover - method 2

Create Chart of Accounts from Template

 You can now create a chart of account for your company by selecting a chart of ac



CANCEL

OK

Create Chart of Accounts from Template

Company: COM01

Account Template:

0 - Plan Comptable para PYMES 2008


0 - Plan General Comptable 2008


Kontenplan SKR03 (Germany)

Minimal Account Chart


Plan comptable (French)


Create Chart of Accounts from Template

Default Receivable Account: ☒ 4111 - Clients - Ventes de biens ou de prestations 

Default Payable Account: ☒ 4011 - Fournisseurs - Achats de biens et prestatio 


Category


Default Revenue Account: ☒ 7011 - Produits finis (ou groupe) A 


Default Expense Account: ☒ 6011 - Matières (ou groupe) A 


CANCEL


CREATE


>  Party


>  Company


>  Product


>  Currency


>  Banking


>  Financial


>  Configuration


>  Configuration


>  Templates


>  Types


>  Moves


>  Accounts

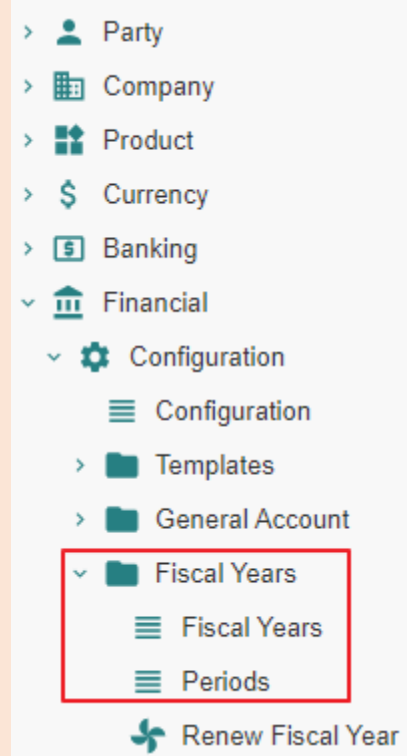
>  Tax Codes

>  Taxes

>  Rules

 Create Chart of Accounts from Template

 Update Chart of Accounts from Template



## Financial - Fiscal Years & Periods

# Documentation

Accounts :

[<https://tryton-administration-manual.readthedocs.io/en/latest/accounts.html>]

Post Move Sequence :

[<https://groups.google.com/g/tryton/c/a4fobeaYn48>]

Opening a Fiscal Year :

[<https://discuss.tryton.org/t/how-to-create-a-fiscalyear/2380>]

# Fiscal Years - Sequences

Financial / Configuration / Fiscal Years

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Name: FY2021

Company: 

COM01

Starting Date: 2021-01-01

Ending Date: 2021-12-31

Periods

Taxes

Sequences

Account Stock

Post Move Sequence: 

PMS

Invoice Sequences

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Company: 

COM01

Sequence:

Period:

🔍

Supplier Invoice Sequence: 

SIS

Supplier Credit Note Sequence: 

SCS

Customer Invoice Sequence: 

CIS

Customer Credit Note Sequence: 

CCS

×

×

×

×

State: Open


# Fiscal Years - Sequences

**Post Move Sequence**

**Sequence Name:** PMS

Sequence Code: Account Move

Active: ☒

Company:  COM01

Prefix: PMS\${year}

Suffix:

Type: Incremental

Incremental

**Number padding:** 0

**Increment Number:** 1

Next Number: 1

Legend (Placeholders for prefix, suffix)

Year: \${year}

Month: \${month}


Day: \${day}


DELETE



SAVE

# Fiscal Years - Sequences


## Supplier Invoice Sequence

**Sequence Name:** SIS 

**Sequence Code:** Invoice  **Active:** ☒

**Company:**  COM01 

**Prefix:** SIS\${year} **Suffix:**

**Type:** Incremental 


Incremental

**Number padding:** 0 **Increment Number:** 1


**Next Number:** 1


Legend (Placeholders for prefix, suffix)



Year: \${year}  
Month: \${month}  
Day: \${day}

DELETE 


## Supplier Credit Note Sequence

**Sequence Name:** SCS 

**Sequence Code:** Invoice  **Active:** ☒

**Company:**  COM01 

**Prefix:** SCS\${year} **Suffix:**

**Type:** Incremental 


Incremental

**Number padding:** 0 **Increment Number:** 1


**Next Number:** 1


Legend (Placeholders for prefix, suffix)



Year: \${year}  
Month: \${month}  
Day: \${day}

CANCEL 


## Customer Invoice Sequence

**Sequence Name:** CIS 

**Sequence Code:** Invoice  **Active:** ☒

**Company:**  COM01 

**Prefix:** CIS\${year} **Suffix:**

**Type:** Incremental 


Incremental

**Number padding:** 0 **Increment Number:** 1


**Next Number:** 1


Legend (Placeholders for prefix, suffix)



Year: \${year}  
Month: \${month}  
Day: \${day}

DELETE 


## Customer Credit Note Sequence

**Sequence Name:** CCS 

**Sequence Code:** Invoice  **Active:** ☒

**Company:**  COM01 

**Prefix:** CCS\${year} **Suffix:**

**Type:** Incremental 


Incremental

**Number padding:** 0 **Increment Number:** 1

**Next Number:** 1

Legend (Placeholders for prefix, suffix)

Year: \${year}  
Month: \${month}  
Day: \${day}

CANCEL 



# Fiscal Years - Periods

Fiscal Years

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Name: FY2021

Company: COM01

Starting Date: 2021-01-01

Ending Date: 2021-12-31

Periods

Taxes

Sequences

Account Stock

Periods

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<input type="checkbox"/> Name	Type	State
-------------------------------	------	-------

CREATE PERIODS

State: Open

Fiscal Years

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Name: FY2021

Company: COM01

Starting Date: 2021-01-01

Ending Date: 2021-12-31

Periods

Taxes

Sequences

Account Stock

Periods

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<input type="checkbox"/> Name	Type	State
<input type="checkbox"/> 2021-01 - 2021-03	Standard	Open
<input type="checkbox"/> 2021-04 - 2021-06	Standard	Open
<input type="checkbox"/> 2021-07 - 2021-09	Standard	Open
<input type="checkbox"/> 2021-10 - 2021-12	Standard	Open

State: Open

## Create Periods (FY2021)

Frequency: Quarterly

End Day: 31

✕ CANCEL

✓ CREATE

# Financial - Configuration

# Configuration

Financial / Configuration

Party

Default Account Receivable:

☒ 4111 - Clients - Ventes de biens ou de prestations de services

×

Default Customer Payment Term:

Q

Product

Default Account Revenue:

☒ 7011 - Produits finis (ou groupe) A

×

Default Account Expense:

☒ 6011 - Matières (ou groupe) A

×

Credit Limit

Default Credit Limit Amount:

Invoice

Default Customer Tax Rule:

Q

Default Supplier Tax Rule:

Q

Tax Rounding:

Per Document

▼

Move

Reconciliation Sequence:

☒ Default Account Move Reconciliation

×

Dunning

Default Dunning Procedure:

Q

Fall-back User:

Q

Stock

Stock Journal:

☒ Stock

×

Deferred

Deferred Account Revenue:

Q

Deferred Account Expense:

Q

Payment

Group Sequence

☒ Default Account Payment Group

×

Landed Cost

Sequence

☒ Landed Cost

×

Chorus

Chorus Login:

Chorus Password:

SHOW

Chorus Service:

▼

Chorus Syntax:

▼

Asset

Sequence

☒ Asset

×

Depreciation Frequency

Monthly

▼

- > Party
- > Company
- > Product
- > Currency
- > Banking
- > Financial
  - > Configuration
  - Configuration

Additional  
parameters  
can be set

# Financial - Journals

## 117

- > Party
- > Company
- > Product
- > Currency
- > Banking
- ▼ Financial
  - ▼ Configuration
    - ≡ Configuration
    - > Templates
    - > General Account
    - > Fiscal Years
    - ▼ Journals
      - ≡ Journals
      - ≡ WriteOff Methods
      - ≡ Invoice Payment Methods

Journals ▾

↔

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3 / 6

Name: Expense

✖

Type: Expense

▾

Code: EXP

Sequence: Default Account Journal

# Journals

Journals ▾

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3 / 6

Name: Expense

✖A

Code: EXP

Type: Expense ▾

Sequence: 

Default Account Journal

Journals ▾

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Name: Revenue

✖A

Code: REV

Active: ☒

Type: Revenue ▾

Sequence: 

Default Account Journal

 ✕

## Financial / Configuration / ... > Sequence

Sequence Name: Default Account Journal

Sequence Type: Account Journal ▾

Active: ☐

Company: 

COM01

Prefix: \${year}

Suffix:

Type: Incremental ▾

Incremental

Number padding:

Increment Number:

Next Number:









Legend (Placeholders for prefix, suffix)

















Year: \${year}














Month: \${month}

Day: \${day}

# Party

- >  Party
- >  Product
- >  Company
- >  Financial
- >  Currency
- >  Banking
- >  Inventory & Stock
- >  Administration

- >  Party
- >  Product
- >  Company
- >  Financial
  - >  Configuration
    -  Account Configuration 
    - >  Templates
    - >  General Account
    - >  Fiscal Years
      - >  Fiscal Years 
      -  Periods 
      -  Renew Fiscal Year 

- >  Financial
  - >  Configuration
    -  Account Configuration 
    - >  Templates
    - >  General Account
    - >  Fiscal Years
      - >  Fiscal Years 
      -  Periods 
      -  Renew Fiscal Year 

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Party / Parties

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✉

Name: COM01

Code: 1

Active: ☒



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✕

General

Identifiers

Banking

Relations

Accounting

Stock

Dunning

Dunning Procedure:

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Payment Terms

Customer Payment Term:

🔍

Supplier Payment Term:

🔍

Account

Account Receivable: 4111 - Clients - Vent

Account Payable: 4011 - Fournisseurs - Achats de biens et

Receivable Today: 0.00

Receivable: 0.00

Deposit: 0.00

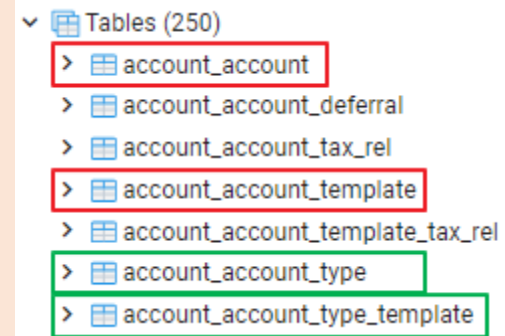
Payable Today: 0.00

Payable: 0.00

Direct Debit:

☐





A screenshot of a database management interface showing a list of tables. The list is titled 'Tables (250)' and contains several entries. The first four entries are highlighted with red boxes, and the last two are highlighted with green boxes. Each entry is preceded by a right-pointing arrow and a small table icon.

>	account_account
>	account_account_deferral
>	account_account_tax_rel
>	account_account_template
>	account_account_template_tax_rel
>	account_account_type
>	account_account_type_template

# Database

# Account Type Templates (1/2)

Financial / Configuration / Templates / Types

FILTERS Search

<input type="checkbox"/>	Name
<input type="checkbox"/>	> Plan General Contable Español 2008
<input type="checkbox"/>	> Plan Contable Español para PYMES 2008
<input type="checkbox"/>	> Minimal Account Type Chart
<input type="checkbox"/>	> Kontentypenplan SKR03 (Germany)
<input type="checkbox"/>	▼ Plan de types de compte (France)
<input type="checkbox"/>	▼ Actif
<input type="checkbox"/>	Capital souscrit - non appelé
<input type="checkbox"/>	> Actifs immobilisés
<input type="checkbox"/>	> Actif circulant
<input type="checkbox"/>	Charges à répartir sur plusieurs exercices
<input type="checkbox"/>	Primes de remboursement des emprunts
<input type="checkbox"/>	Écarts de conversion actif
<input type="checkbox"/>	> Passif
<input type="checkbox"/>	> Hors bilan

- > Party
- > Company
- > Product
- > Currency
- > Banking
- ▼ Financial
  - ▼ Configuration
    - Configuration
    - ▼ Templates
      - Types**
      - Moves
      - Accounts
      - Tax Codes
      - Taxes
      - Rules
      - Create Chart of Accounts from ...
      - Update Chart of Accounts from...

## Account Type Templates (2/2)

Templates are used to generate the actual « Chart of Account ».  
As such, there is no reference to a « Company »

account_account_type_template
> Columns
> Constraints (3)
✓ account_account_type_template_id_positive
🔑 account_account_type_template_parent_fkey
🔑 account_account_type_template_pkey

Data Output		Explain	Messages	Notifications									
	id [PK] integer	assets boolean	create_date timestamp without time zone	create_uid integer	expense boolean	name character varying	parent integer	payable boolean	receivable boolean	revenue boolean	sequence integer	statement character varying	stock boolean
1	1	false	2021-03-08 11:42:32.073204	0	false	Minimal Account Type ...	[null]	false	false	false	10	[null]	false
2	2	true	2021-03-08 11:42:32.073204	0	false	Asset	1	false	false	false	10	balance	false
3	3	true	2021-03-08 11:42:32.073204	0	false	Current	2	false	false	false	10	balance	false
4	4	true	2021-03-08 11:42:32.073204	0	false	Cash	3	false	false	false	10	balance	false
5	5	true	2021-03-08 11:42:32.073204	0	false	Receivable	3	false	true	false	20	balance	false
6	6	true	2021-03-08 11:42:32.073204	0	false	Long-term	2	false	false	false	20	balance	false
7	7	false	2021-03-08 11:42:32.073204	0	false	Liability	1	false	false	false	20	balance	false
8	8	false	2021-03-08 11:42:32.073204	0	false	Current	7	false	false	false	10	balance	false
9	9	false	2021-03-08 11:42:32.073204	0	false	Payable	8	true	false	false	10	balance	false
10	10	false	2021-03-08 11:42:32.073204	0	false	Tax	8	false	false	false	20	balance	false
11	11	false	2021-03-08 11:42:32.073204	0	false	Long-term	7	false	false	false	20	balance	false
12	12	false	2021-03-08 11:42:32.073204	0	false	Equity	1	false	false	false	30	balance	false
13	13	false	2021-03-08 11:42:32.073204	0	false	Income	12	false	false	false	40	income	false
14	14	false	2021-03-08 11:42:32.073204	0	false	Revenue	13	false	false	true	10	income	false
15	15	false	2021-03-08 11:42:32.073204	0	true	Expense	13	false	false	false	20	income	false
16	16	false	2021-03-08 11:42:32.073204	0	false	Off-Balance	1	false	false	false	60	off-balance	false
17	17	false	2021-03-08 11:42:51.929697	0	false	Kontentypenplan SKR0...	[null]	false	false	false	10	[null]	false
18	18	false	2021-03-08 11:42:51.929697	0	false	Aktiva	17	false	false	false	10	balance	false

## Account Types (1/2)

Financial / Configuration / General Account / Account Types -

FILTERS Search

☐ Name

☐ ▾ Plan de types de compte (France)

☐ ▾ Actif

☐ Capital souscrit - non appelé

☐ > Actifs immobilisés

☐ > Actif circulant

☐ Charges à répartir sur plusieurs exercices

☐ Primes de remboursement des emprunts

☐ Écarts de conversion actif

☐ ▾ Passif

☐ > Capitaux propres

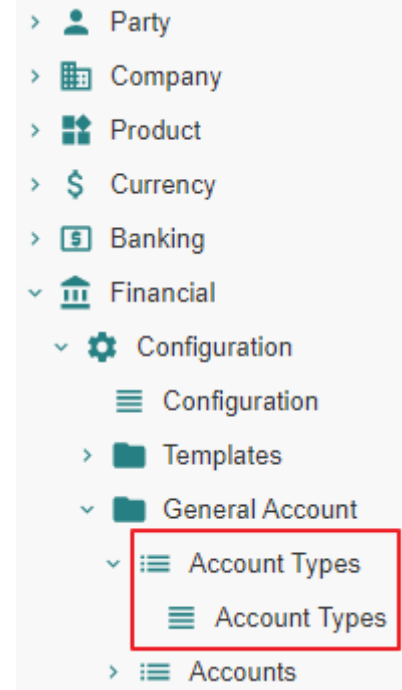
Financial / Configuration / General Account / Account Types -

1 / 1

Name: Plan de types de compte (France) Company:  X

Statement: ▾ Parent: ▾

Stock: ☐
















The « Account Type » contains a reference to the « Company ».

This contrasts with the « Account Type Template » which does not

## Account Types (2/2)

account_account_type	
>	Columns
▼	Constraints (5)
	account_account_type_company_fkey
	account_account_type_id_positive
	account_account_type_parent_fkey
	account_account_type_pkey
	account_account_type_template_fkey

Data Output		Explain	Messages	Notifications									
	 id [PK] integer	 assets boolean	 company integer	 create_date timestamp without time zone	 create_uid integer	 expense boolean	 name character varying	 parent integer	 payable boolean	 receivable boolean	 revenue boolean	 sequence integer	 statement character varying
1	1	false	1	2021-03-08 16:49:00.218444	1	false	Plan de types de comp...	[null]	false	false	false	10	[null]
2	2	true	1	2021-03-08 16:49:00.218444	1	false	Actif	1	false	false	false	10	balance
3	3	false	1	2021-03-08 16:49:00.218444	1	false	Passif	1	false	false	false	20	balance
4	4	false	1	2021-03-08 16:49:00.218444	1	false	Hors bilan	1	false	false	false	30	off-balance
5	5	true	1	2021-03-08 16:49:00.218444	1	false	Capital souscrit - non a...	2	false	false	false	10	balance
6	6	true	1	2021-03-08 16:49:00.218444	1	false	Actifs immobilisés	2	false	false	false	20	balance
7	7	true	1	2021-03-08 16:49:00.218444	1	false	Actif circulant	2	false	false	false	30	balance
8	8	true	1	2021-03-08 16:49:00.218444	1	false	Charges à répartir sur ...	2	false	false	false	40	balance
9	9	true	1	2021-03-08 16:49:00.218444	1	false	Primes de rembourse...	2	false	false	false	50	balance
10	10	true	1	2021-03-08 16:49:00.218444	1	false	Écarts de conversion a...	2	false	false	false	60	balance
11	11	false	1	2021-03-08 16:49:00.218444	1	false	Capitaux propres	3	false	false	false	10	balance

# Account Templates (1/3)

Account Templates ▾		↩	<	1 / 5	>	➡
FILTERS Search						
<input type="checkbox"/>	Record Name	Type				
<input checked="" type="checkbox"/>	> 0 - Plan Contable para PYMES 2008	Plan Contable Español para PYMES 2008				
<input type="checkbox"/>	> 0 - Plan General Contable 2008	Plan General Contable Español 2008				
<input type="checkbox"/>	> Kontenplan SKR03 (Germany)	Kontentypenplan SKR03 (Germany)				
<input type="checkbox"/>	> Minimal Account Chart	Minimal Account Type Chart				
<input type="checkbox"/>	▼ Plan comptable (French)	Plan de types de compte (France)				
<input type="checkbox"/>	▼ 1 - Comptes de capitaux					
<input type="checkbox"/>	> 10 - Capital et réserves					
<input type="checkbox"/>	> 11 - Report à nouveau (solde créditeur ou débiteur)					
<input type="checkbox"/>	> 12 - Résultat de l'exercice (bénéfice ou perte)					
<input type="checkbox"/>	> 13 - Subventions d'investissement					
<input type="checkbox"/>	> 14 - Provisions réglementées	Plan de types de compte (France)\Passif\Capitaux propres\Pr...				
<input type="checkbox"/>	> 15 - Provisions	Plan de types de compte (France)\Passif\Provisions\Provision...				
<input type="checkbox"/>	> 16 - Emprunts et dettes assimilées					

- > Party
- > Company
- > Product
- > Currency
- > Banking
- ▼ Financial
  - ▼ Configuration
    - Configuration
    - ▼ Templates
      - Types
      - Moves
      - Accounts**
      - Tax Codes
      - Taxes
      - Rules
      - Create Chart of Accounts ..
      - Update Chart of Accounts..

# Account Templates (2/3)

Financial / Configuration / Templates / Accounts -

FILTERS Search

- ☐ Record Name
- ☐ 4 - Comptes de tiers
  - ☐ 40 - Fournisseurs et comptes rattachés
  - ☐ 41 - Clients et comptes rattachés
    - ☐ 410 - Clients et comptes rattachés
    - ☐ 411 - Clients
      - ☐ 4111 - Clients - Ventes de biens ou de prestations de services
      - ☐ 4117 - Clients - Retenues de garantie

Financial / Configuration / Templates / Accounts -

Name: Clients - Ventes de biens ou de prestations de ser

Code: 4111

Parent: 411 - Clients

Type: Plan de types c

Debit Type:

Closed:

☐

General Ledger Balance:

☐

Start Date:

End Date:

Reconcile:

☒

Party Required:

☒

## Default Taxes

☐

Name

Group

Type

Account Template

- > Party
- > Company
- > Product
- > Currency
- > Banking
- > Financial
  - > Configuration
    - Configuration
    - Templates
      - Types
      - Moves
      - Accounts
      - Tax Codes
      - Taxes
      - Rules
      - Create Chart of Accounts ..
      - Update Chart of Accounts..

## Account Templates (3/3) - Note

account_account_template
> Columns
▼ Constraints (6)
account_account_template_debit_type_fkey
✓ account_account_template_id_positive
account_account_template_parent_fkey
account_account_template_pkey
account_account_template_replaced_by_fkey
account_account_template_type_fkey

Data Output		Explain	Messages	Notifications					
	<b>id</b> [PK] integer	<b>closed</b> boolean	<b>code</b> character varying	<b>create_date</b> timestamp without time zone	<b>create_uid</b> integer	<b>debit_type</b> integer	<b>end_date</b> date	<b>general_ledger_balance</b> boolean	<b>name</b> character varying
1	1	true	[null]	2021-03-08 11:42:32.073204	0	[null]	[null]	false	Minimal Account Chart
2	2	false	[null]	2021-03-08 11:42:32.073204	0	[null]	[null]	false	Main Receivable
3	3	false	[null]	2021-03-08 11:42:32.073204	0	[null]	[null]	false	Main Payable
4	4	false	[null]	2021-03-08 11:42:32.073204	0	[null]	[null]	false	Main Revenue



# Accounts (1/2)

- > Party
- > Company
- > Product
- > Currency
- > Banking
- > Financial
  - > Configuration
    - Configuration
  - > Templates
  - > General Account
    - > Account Types
      - Account Types
      - > Accounts**

Financial / Configuration / General Account / Accounts-

FILTERS Search

<input type="checkbox"/>	Record Name	Company
<input type="checkbox"/>	> Plan comptable (France)	COM01
<input type="checkbox"/>	> 1 - Comptes de capitaux	COM01
<input type="checkbox"/>	> 2 - Comptes d'immobilisations	COM01
<input type="checkbox"/>	> 3 - Comptes de stocks et d'en-cours	COM01
<input type="checkbox"/>	> 4 - Comptes de tiers	COM01
<input type="checkbox"/>	> 40 - Fournisseurs et comptes rattachés	COM01
<input type="checkbox"/>	> 41 - Clients et comptes rattachés	COM01

Financial / Configuration / General Account / Accounts-

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✉

Name: Clients - Ventes de biens ou de prestations de servicCode: 4111Active: ☒Override Template: ☐

General Information

Children

Deferrals

Note

Company: COM01

Type: Plan de types deDebit Type:

Start Date:

Currency: Euro

Reconcile: ☒

Parent: 411 - Clients

Closed: ☐

End Date:

Secondary Currency:

Party Required: ☒

General Ledger Balance: ☐

129

## Accounts (2/2)

account_account
> Columns
▼ Constraints (9)
account_account_company_fkey
account_account_debit_type_fkey
✓ account_account_id_positive
account_account_parent_fkey
account_account_pkey
account_account_replaced_by_fkey
account_account_second_currency_fkey
account_account_template_fkey
account_account_type_fkey

Query Editor Query History Scratch P

```
1 SELECT * FROM public.account_account
2 ORDER BY id ASC
```

Data Output Explain Messages Notifications

	id [PK] integer	closed boolean	code character varying	company integer	template integer	1 time zone	create_uid integer	debit_type integer	end_date date	general_ledger_balance boolean	left integer	name character varying	note text
1	1	false	[null]	1	1175	f0.218444	1	[null]	[null]	false	1	Plan comptable (French)	[null]
2	2	false	1	1	1176	f0.218444	1	[null]	[null]	false	2	Comptes de capitaux	[null]
3	3	false	2	1	1325	f0.218444	1	[null]	[null]	false	300	Comptes d'immobilisat...	[null]
4	4	false	3	1	1689	f0.218444	1	[null]	[null]	false	1028	Comptes de stocks et ...	[null]
5	5	false	4	1	1781	f0.218444	1	[null]	[null]	false	1212	Comptes de tiers	[null]
6	6	false	5	1	1945	f0.218444	1	[null]	[null]	false	1540	Comptes financiers	[null]
7	7	false	6	1	1998	f0.218444	1	[null]	[null]	false	1646	Comptes de charges	[null]

# Problem with closed accounts

[<https://discuss.tryton.org/t/value-for-field-account-is-not-valid/3106/9>]

```
Select * from account_account where closed = true;
UPDATE account_account SET closed = false WHERE closed = true;
```



Marc

4d

I hit the same problem with the « French » chart of account whilst creating a Sales Order. What I did :

- Run the query « Select \* from account\_account where closed = true; » in « Postgres / pgadmin4 »
  - This query confirmed that 252 accounts were « closed »
  - I did not bother to find out which one
  - Run the query « UPDATE account\_account SET closed = false WHERE closed = true; »
  - That solved the problem : I could advance the Sales Order to « Process »
- Suggestion : whilst processing the sales order, to have the error message display one such account encountered in this state up until there are no more in that state.

Query Editor

```
1 Select * from account_account where closed = true;
```

Query returned successfully in 103 msec.

	id [PK] integer	closed boolean	code character varying	company integer	cre tim
1	545	true	411	1	202
2	338	true	1013	1	202
3	76	true	101	1	202

Query Editor

```
1 Select * from account_account where closed = true;
2
3 UPDATE account_account SET closed = false WHERE closed = true;
4
```

UPDATE 251

Query returned successfully in 103 msec.

Query Editor

```
1 Select * from account_account where closed = true;
2
3 UPDATE account_account SET closed = false WHERE closed = true;
4
```

UPDATE 251

Query returned successfully in 103 msec.

# User Authorizations

# Motivation

- We experiment in changing user authorizations with respect to accessing subject areas in the application
- The « User Administrator » can tailor this by exercising « User Groups » and « User Roles »
- We activate module « user\_role »

Administration / Modules ▾

↔ < 1 / 1

FILTERS role

<input checked="" type="checkbox"/>	Name	Version	State	Mar
<input checked="" type="checkbox"/>	user_role	6.0.0	To be activated	

Administration / Modules ▾

↔ < 1 / 1

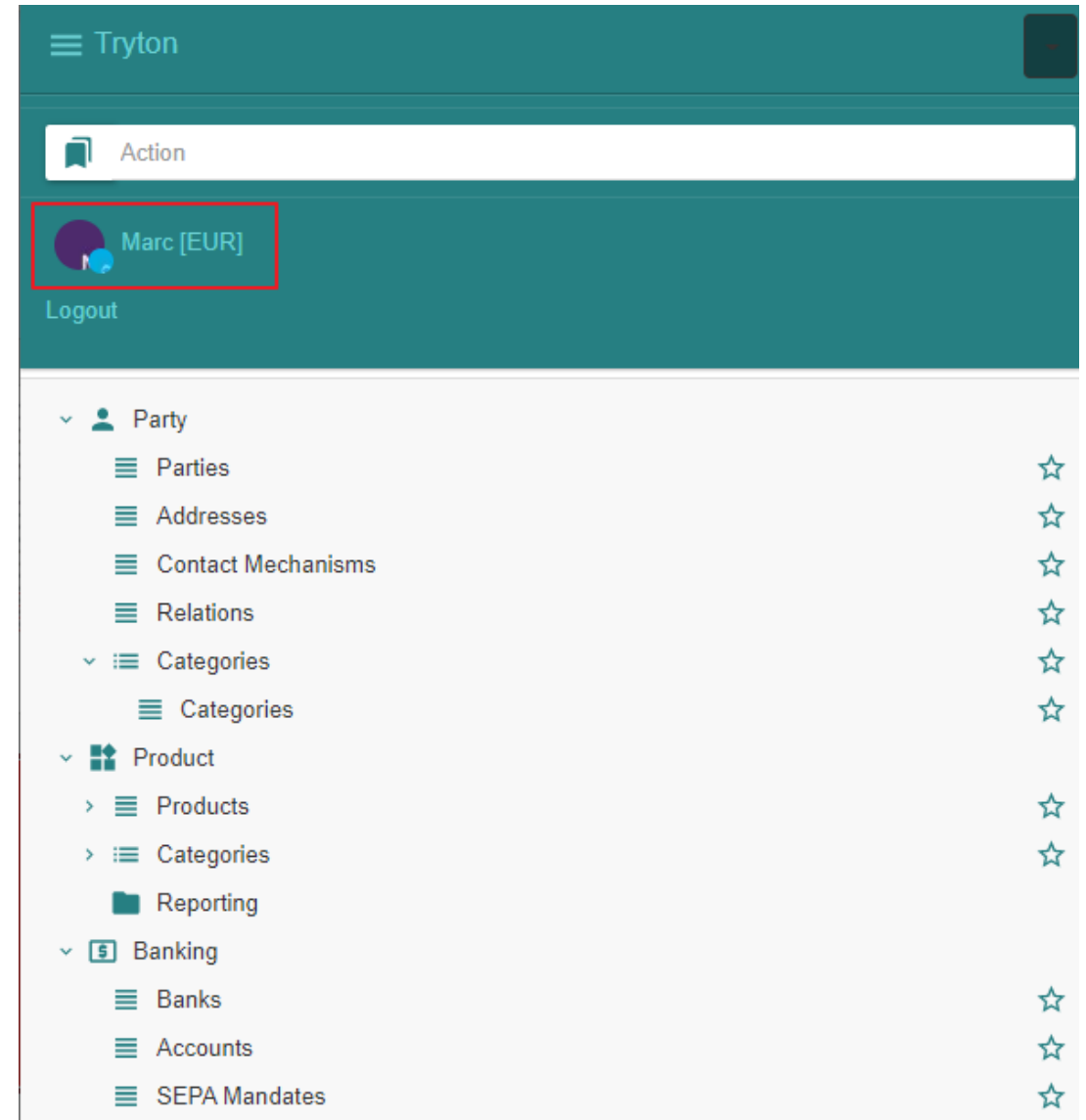
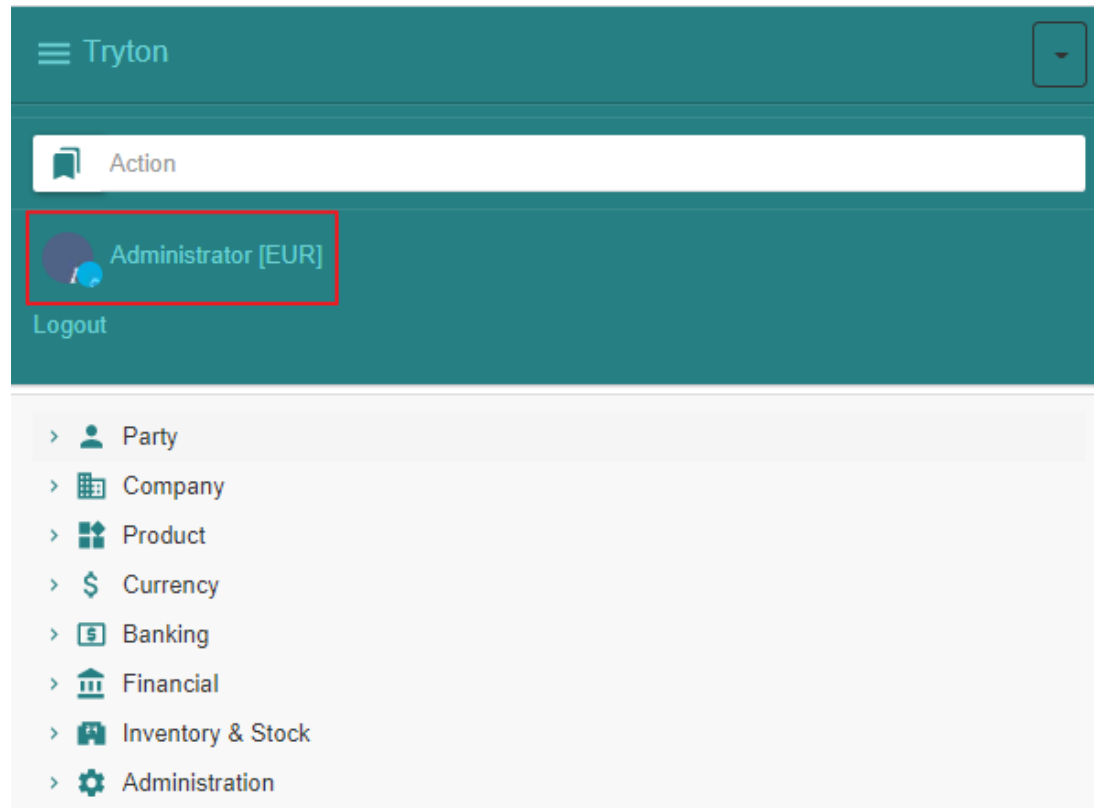
FILTERS role

<input checked="" type="checkbox"/>	Name	Version	State	Mar
<input checked="" type="checkbox"/>	user_role	6.0.0	Activated	MA

- > Party
- > Company
- > Product
- > Currency
- > Banking
- > Financial
- > Inventory & Stock
- ▼ Administration
  - ▼ Users
    - Users
    - Groups
    - Roles
  - Sequences
  - Modules
  - Localization
    - Countries
  - User Interface
  - Models
  - Scheduler

# User Capabilities - State Ante

# State - User Capabilities



## User Groups - Modify



# List of « User Groups »

Linking the « User » and the « Group » is possible in two ways :

- Method 1 : displaying the choosen group then linking the user to it
- Method 2 : displaying the choosen user then linking the group to it

Administration / Users / Groups

FILTERS

Search

☐ Name

☒ Account

☐ Account Administration

☐ Account Credit Limit

☐ Administration

☐ Analytic Administration

☐ Bank Administration

☐ Company Administration

☐ Currency Administration

☐ Dunning

☐ Employee Administration

☐ Party Administration

☐ Payment

☐ Payment Approval

☐ Product Administration

☐ Statement

☐ Stock

☐ Stock Administration

☐ Stock Force Assignment

> Party

> Company

> Product

> Currency

> Banking

> Financial

> Inventory & Stock

> Administration

- > Users
  - Users
  - Groups**
  - Roles

> Sequences

> Modules

> Localization

- Countries

> User Interface

> Models

> Scheduler

# Attach « User Marc » to a « User Group » - Method 1

Administration / Users / Groups - 8 / 18

Name: Currency Administration Active:

Parent:

Members Access Permissions

## Users

<input type="checkbox"/>	Name	Login
<input type="checkbox"/>	Administrator	admin
<input type="checkbox"/>	Marc	marc

Administration / Users / Groups - 8 / 18

Name: Currency Administration Active:

Parent:

Members Access Permissions

Access Model Rules Buttons Access Menu

Access Model					Access Field				
<input type="checkbox"/>	Read Access	Write Access	Create Access	Delete Access	Model	<input type="checkbox"/>	Read Access	Write Access	Delete Access
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Currency	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Currency Cron	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

## Attach a « User Group » to « User Marc » - Method 2

Administration / Users

↔

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2 / 2

>

+

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↺

📎

💬

🌀

🔗

🖨

✉

Name: Marc

Active: ☒


Login: marc

Email: 

🌐

Password: .....

SHOW



↓

✕

User

Actions

Access Permissions

Applications

Preferences

Roles

↔

<

0 / 0

>

+

🔗

🗑

↶

<input type="checkbox"/>	Role	From Date	To Date
--------------------------	------	-----------	---------

Groups

+

-

<input type="checkbox"/>	Name	Parent
<input checked="" type="checkbox"/>	Currency Administration	

## User Roles - Modify

## « User Roles »

We define a « Role » that aggregates two « Groups »

Administration / Users / Roles

Name: Company & Currency Administration

Groups

<input type="checkbox"/>	Name	Parent
<input type="checkbox"/>	Company Administration	
<input type="checkbox"/>	Currency Administration	

- > Party
- > Company
- > Product
- > Currency
- > Banking
- > Financial
- > Inventory & Stock
- > Administration
  - > Users
    - Users
    - Groups
    - Roles
  - > Sequences
  - > Modules
  - > Localization
    - Countries
  - > User Interface
  - > Models
  - > Scheduler

## Attach « User Marc » to a « User Role » 1/2

- Once a « Role » is defined, it can be referenced by a « User »
- Attaching a « Role » also allows to restrain the « from » and « to » dates

Administration / Users ▾

Name: Marc Active: ☒

Login: marc Email:

Password: ..... SHOW


User Actions Access Permissions Applications Preferences

Roles

<input type="checkbox"/> Role	From Date	To Date
<input type="checkbox"/> Company & Currency Administration	2021-01-01	2021-12-31

Groups

<input type="checkbox"/> Name	Parent
<input type="checkbox"/> Company Administration	
<input type="checkbox"/> Currency Administration	



## Attach « User Marc » to a « User Role » 2/2

We must also ensure that « User Marc » has a link to « Company COM01 » so as to access those records

Administration / Users

Name: Marc

Active: ☒

Login: marc

Email:

Password:

SHOW

Download

Close

User

Actions

Access Permissions

Applications

Preferences

Current Company: COM01

Company Filter: Current

Current Employee: EMP02

Current Warehouse:

Companies

Employees

☐ Party

☒ COM01

☐ Party

☒ EMP02

Company

Supervisor

Start Date

End Date

2021-...

Tryton

Action

Marc [EUR]

Logout

Party

Parties

Addresses

Contact Mechanisms

Relations

Categories

Categories

Company

Companies

Employees

Product

Products

Categories

Reporting

Currency

Currencies

Scheduled Rate Updates

Banking

Banks

Accounts

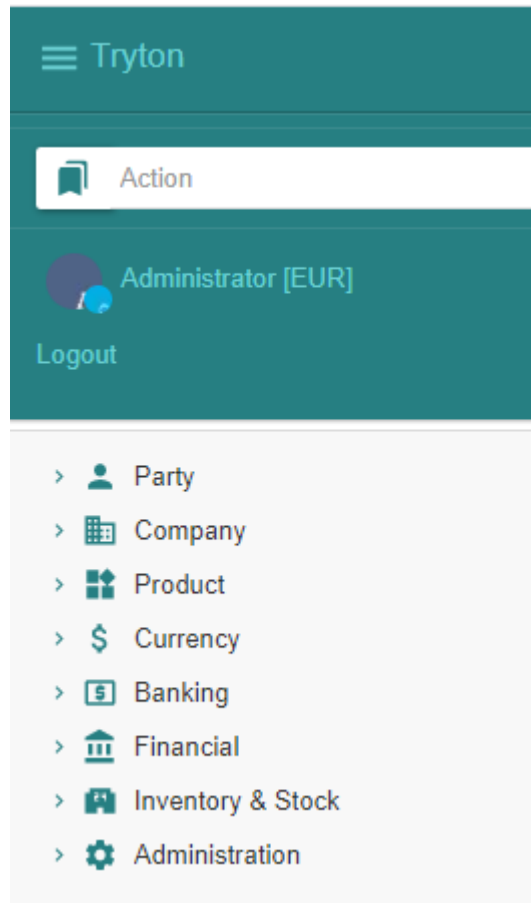
SEPA Mandates

# User Capabilities - State Post



# State - User Capabilities

« User Administrator »



« User Marc »

