

# Synchronization

## / Getting started

With the synchronization process, you are able to merge the contents of one environment with another without the need to make manual changes. The content you want to synchronize can be set at the process configuration phase, and the process itself is automatic.

### Remember

Synchronization is the ongoing process of synchronizing data between two environments, and updating changes automatically between them to maintain consistency within them. It is a perfect way to prepare for example campaign on TEST environment and then synchronize all the changes in the PROD environment at once.

### Note

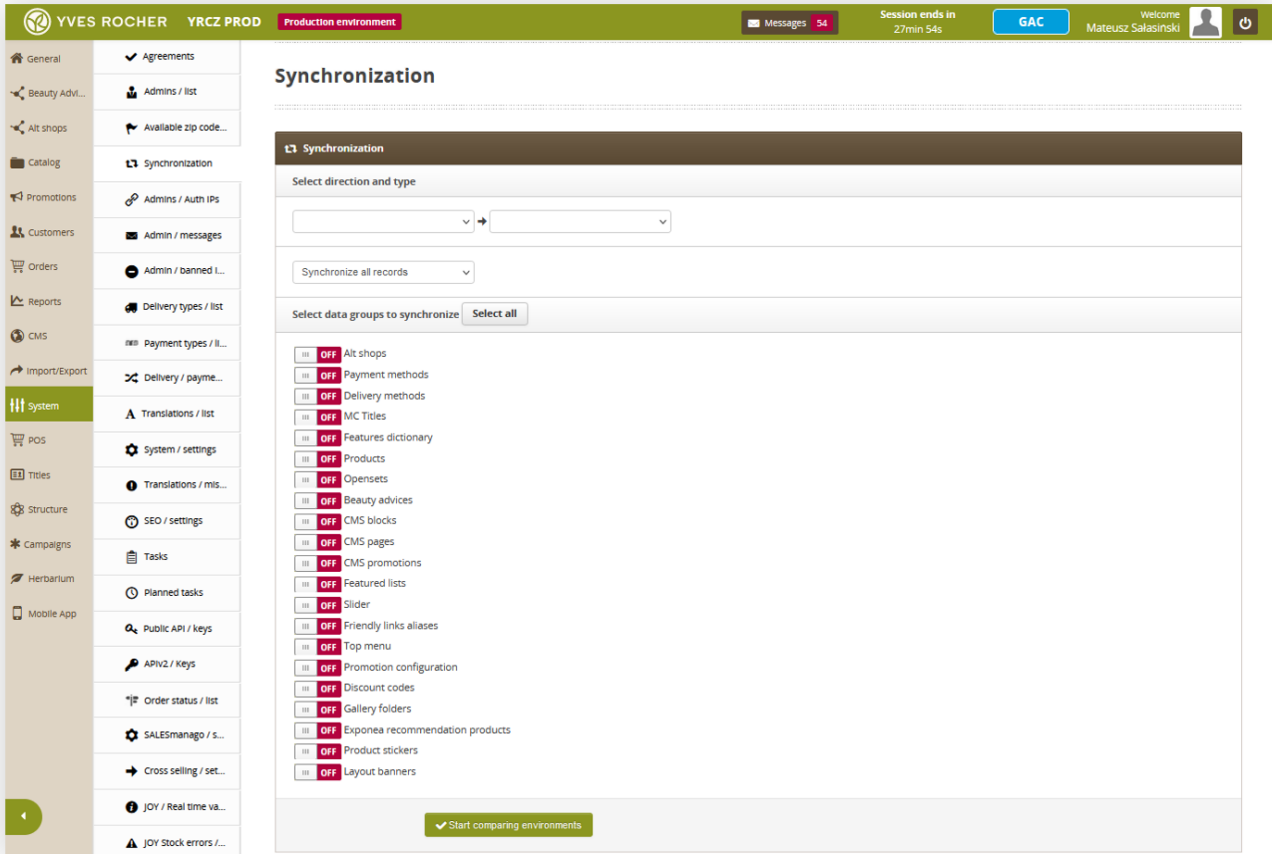
Synchronization process works only between PROD and TEST environments, and can be activated only from PROD environment. Data can only be synchronized one way at the time, for example: PROD > TEST, or TEST > PROD.

Not all data is synchronized between the environments. Below you will find data and settings that are **not** synchronized:

- System settings (except mobile app JSONs described below)
- Translations
- Promotion codes
- Campaigns
- Titles
- Users
- Payment types
- Delivery types
- SEO settings
- Orders
- Reviews
- Beauty Advisor module

Synchronization module is located in:

**System > Synchronization**



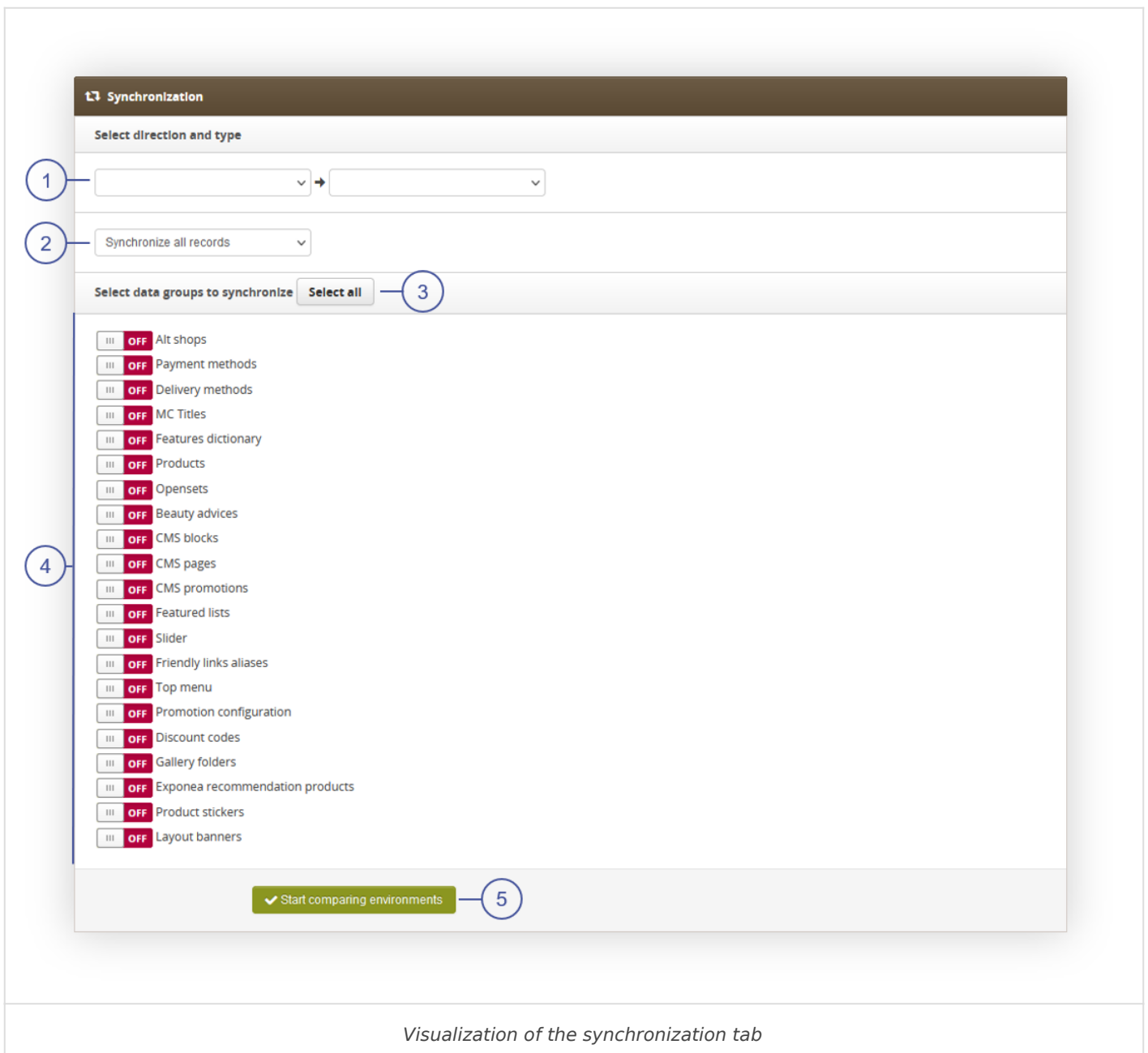
Visualization of the synchronization tab

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# / Description of the synchronization process

In the synchronization module, you can find many synchronization options described below



**(1)** - Select the synchronization direction (PROD <--> TEST).

**(2)** - Choose whether you want to synchronize **all records** or **only new ones**.

- **Synchronize all records** - the application will take all records available in the database into account, including also modification of the current records in the environment from which the synchronization process is performed.
- **Synchronize only new records** - The application will only take newly created records into account in the environment from which the synchronization is performed.

### **i** Example

1. In the TEST environment, you have created a new CMS page.
2. On the PROD environment, you have changed the graphics in the currently existing Slider
3. You use the synchronize function in the TEST > PROD direction

### The result:

The application will only move a new CMS page to the production environment (point 1).

### Warning

If you create a new CMS page on the TEST and PROD environments at the same time, and then synchronize the environments, there is a risk (if the status of the environments is not identical) that the synchronized pages will overwrite the currently existing pages on the environment in which the synchronization is performed because synchronization system is using the internal element IDs to fit the data together, and if the IDs are different that will result in conflict.

**(3)** - button enabling selection of all records from section **(4)**

**(4)** - switches defining which application modules should be involved in the synchronization process. After selecting the **Gallery folders** switch, and specifying the synchronization process direction, you will be able to choose which folders from the gallery should take part in the synchronization process. **System config** option allows to synchronize mobile app JSONs located in **System > System / Settings > Integrations > Mobile app**.

### Remember

Selecting mobile app synchronization options forces to additionally synchronize **Gallery folders**, as mobile app has mandatory images. Please remember to synchronize gallery folders that are used for a mobile app graphics (in most cases it's a **mobile\_app** folder).

**(5)** - button initiating the synchronization process.

After selecting **Start comparing environments (5)** button, the process of environment comparison will start, and you'll receive the following statement.

Application is comparing selected data groups between environments.

 please wait...

*Visualization of the e-mail message*

# / Changes review - description of the view and possible actions

After the system compares the environments you will see all changes and conflicts that will occur. You can find description of all changes below

The screenshot displays the 'Changes review' interface. At the top, a blue banner reads 'Please choose which records should be synchronized.' Below this, a green banner indicates 'Synchronization will be performed from: PRODUCTION to: TEST CZ'. The interface is divided into several sections: 'Conflicts (1)', 'New records (7)', 'Modified records (30)', and 'Deleted records (0)'. The 'New records' section is expanded, showing a list of CMS blocks with checkboxes for selection. At the bottom, there is a 'Start at' field with the value '2022-09-01 09:59:32', a checkbox for 'Check below to only test sync (SQL stored in system log)' which is currently 'OFF', and a green button labeled 'Schedule synchronization'.

**Changes review**

Please choose which records should be synchronized.

1 Synchronization will be performed from: **PRODUCTION** to: **TEST CZ**

**Conflicts (1)**

- CMS pages
- CMS Page: Actbeautiful, ID: 11743

**New records (7)**

- CMS blocks
- CMS Block: promotion banner 985 (copy), ID: 14760
- CMS Block: Promotion banner 1215, ID: 14761
- CMS Block: Promotion banner 1216, ID: 14762
- CMS Block: Promotion banner 1217, ID: 14763
- CMS Block: Promotion banner 1218, ID: 14764
- CMS Block: Promotion banner 1219, ID: 14765
- CMS Block: Promotion banner 1220, ID: 14766

**Modified records (30)**

**Deleted records (0)**

Start at:  
2022-09-01 09:59:32

Check below to only test sync (SQL stored in system log)  
 OFF

2

3

**(1)** - statement announcing in which direction the synchronization will be performed

**(2)** - tabs with the possibility to select the records you want to synchronize. In the above screenshot, an example of **New records** is attached. The selected record will be synchronized, an unmarked record will not be synchronized.

- **Conflicts** - list of conflicts that occurred during synchronization. Conflicts can happen when synchronized data doesn't match internal ID. In this case, the user will receive a conflict warning with an option to ignore the conflict and overwrite the data. To avoid conflicts, it is recommended to not create same content on both environments at the same time, as this is the most common reason of a conflict.
- **New records** - list of new records created on the source environment from which synchronization is performed to the target environment.
- **Modified records** - list of modified records on the environment from which synchronization is performed. It is a list of records that have matching ID between PROD and TEST environment, and by selecting them the synchronization will overwrite the content of the data.
- **Deleted records** - list of records deleted from the environment from which synchronization is performed. It is a list of records that doesn't exist on source environment, because they got deleted, but they still exist on a target environments. Same as with other actions, it is being compared using the IDs.

**(3)** - in this section you can schedule the date when the synchronization will be performed and choose the possibility of test import for a verification purposes (changes will not be saved).

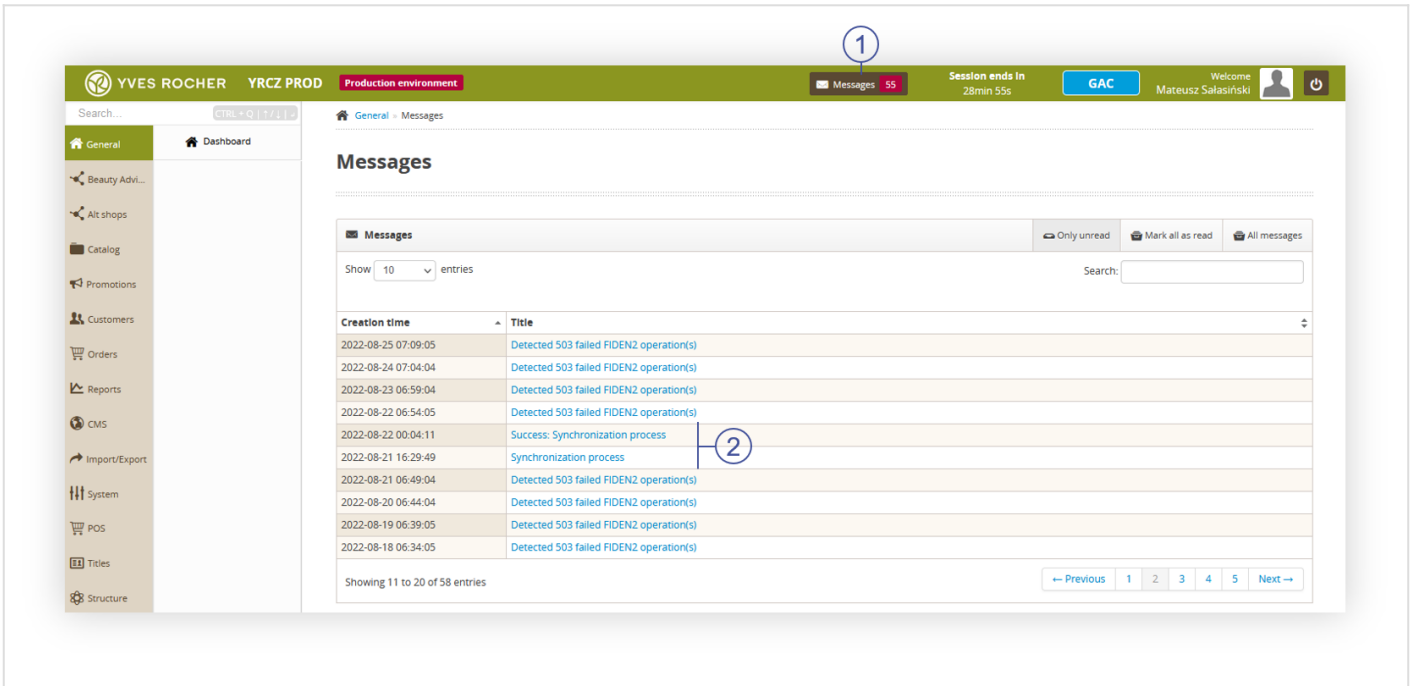
### Warning

After scheduling a synchronization, it is advised to not make any changes to the source and target environments until the synchronization is finished or canceled. This may cause unexpected behavior in the synchronization process.

After setting up the settings, select the **Schedule synchronization** button to initiate the synchronization process.

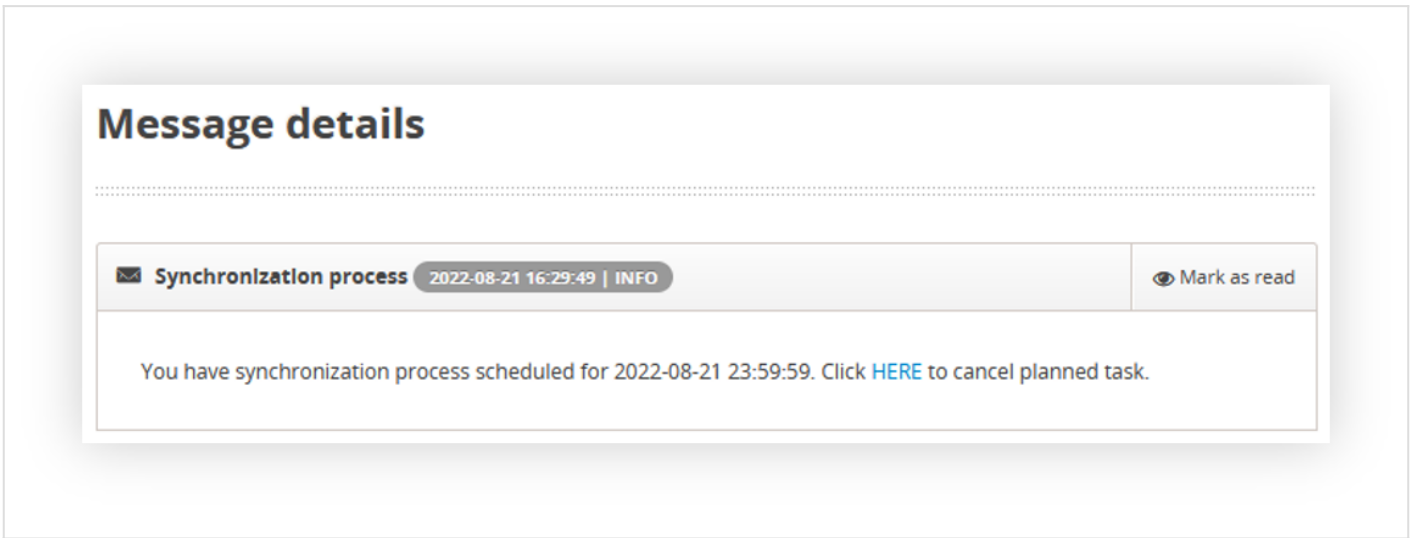
## / Result of a synchronization

You can check the result of the synchronization by choosing the **Messages (1)** button.



Visualization of the messages tab

While synchronization is still in process, you will see **Synchronization process** message. When you click on the message you will see detailed information:



Visualization of the synchronization process message tab

Synchronization process message will show you at what day and hour the synchronization is scheduled, and you will be able to cancel the synchronization by pressing the **HERE** text.

After the synchronization process is complete, you will see in the **Messages** tab a **Success: Synchronization process** or a **FAILURE: Synchronization process** message.

## Message details

Success: Synchronization process 2022-08-22 00:04:11 | INFO

Mark as read

Planned synchronization has been successfully completed.

*Visualization of the success: synchronization process message tab*

In the **Success: Synchronization process** message you will see an information, that your synchronization was completed successful, and planned changes has been applied.

**FAILURE: Synchronization process** message will show you an error pointing out why the synchronization was unsuccessful.

A user who has initiated the synchronization process will additionally receive an email message on successful synchronization.

## Success: Synchronization process



Yves Rocher Tvůrce Rostlinné kosmetiky <noreply@yves-rocher.cz>  
To [redacted]

Planned synchronization has been successfully completed.<br>

*Visualization of the e-mail message*

Revision #2

Created 27 November 2024 21:06:24 by Tau Ceti

Updated 27 November 2024 21:29:13 by Tau Ceti