

# Products Change-tracker

EESys includes a system to track ALL changes made to Product records. This is done because Product records include critical data. Customers may demand information about a Product relating to a batch processed in the distant past, after many changes have been made. It is important to be able to refer to the data which was present in the database for that product at that point in time when necessary. To help with this, a "ProductChanges" data-table and mechanism for capturing changes has been added to EESys. It is important to note that this is not a full "time-travel" feature (allowing the former state of the Product to be completely recreated) instead it is a log showing all / any changes to a Product right through its history. The user can then review changes which have been made and see whether any are important. The system also prompts the user to add Comments when changes are made to Active products, since this should only be done in exceptional circumstances.

## How the Change-tracker works

Everytime any user edits any of the following data-tables:

- Products
- ProductInputs
- SalesDetails
- SupplyDetails
- ProductionDetails
- ProductionSpecifications
- NutritionalDetails

A text block is created which reads:

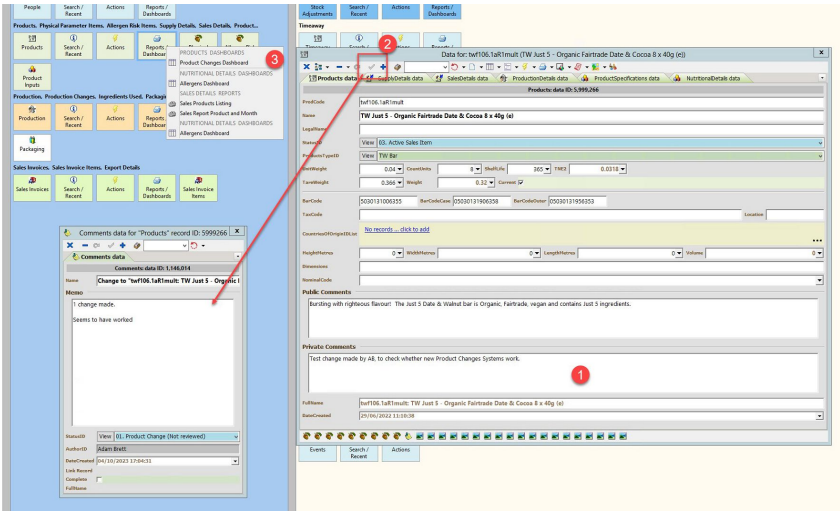
A change was made to:  
"changed field name" now "new value"

for **every** change made by the user. This data is then inserted into the **ProductChanges** data-table, together with:

- The ID of the Product
- The name of the data-table which was edited (SalesDetails, etc.)
- The ID of the staff member who made the change.
- A short memo, just stating the Full Name of the user who made the edit, with a date and time.
- The current timestamp.

If more than one data-table has been edited, a separate row is added for each set of changes.

## Basic Operation of the Change-tracker



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