

Project

Data

Base

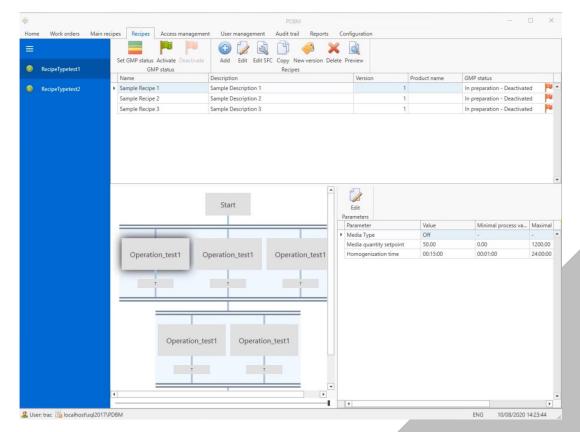
Manager





TRAC

- PDBM is advanced data management application which provides complete control of process data.
- Application is based on modular approach.
- PDBM is fully user configurable.





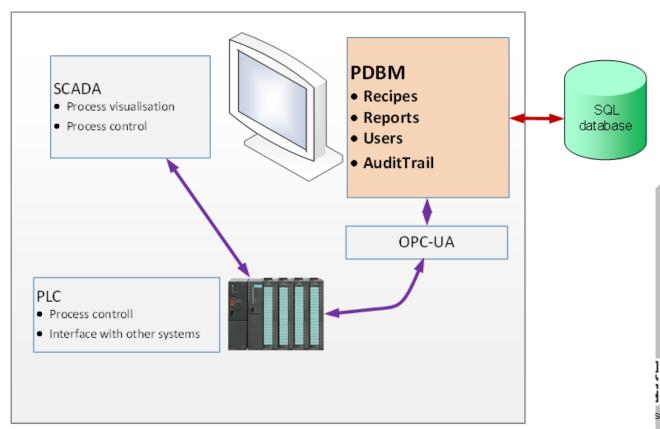


How does it work?

 PDBM manages data associated with an industrial automated production process while communicating with

external equipment through OPC-UA data exchange standard.

 PDBM application uses
 SQL database as data repository.





How does it work II?

- Application is used for full ERES compliance and is managing recipes, reports, audit trail and user group rights.
- It can be deployed as stand-alone Windows application or as integrated application into the SCADA environment.





Benefits & Advantages of PDBM

PDBM Benefits

- Is fully user configurable
- Is CFR 21 Part 21 compliant (electronic signature, audit trail)
- Is intuitive and easy to use
- Provides graphical user interface
- Provides integration with Active Directory
- Provides multi-language support
- Supports touch screen displays
- Is based upon modern SFTW frameworks and practices





PDBM Features

- Modules:
 - Recipes
 - Reports
 - Audit Trail
 - User management
 - Access management
 - Configuration
- Modern interface with hamburger menus and ribbon bars
- Industry standard OPC-UA communication



Why PDBM?



PDBM with modular approach provides the means to:

- play the challenges
- reduce the costs
- mitigate the risks

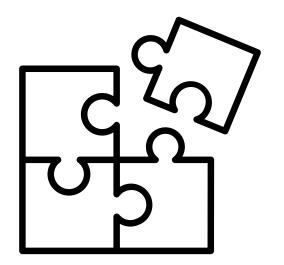




Benefits of the modular approach



- Flexibility
- High standardization
- Setup time optimization
- Efficiency
- Consistency

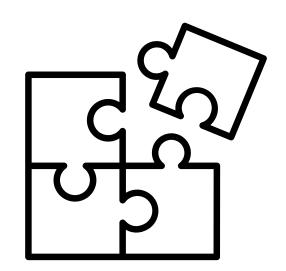




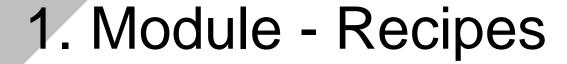
Modules



- 1. Recipes
- 2. Reports
- 3. Audit Trail
- 4. User Management
- 5. Access Management
- 6. Configuration









Industrial processes are usually executed according to a predefined recipe.

This module is used to create new, maintain existing and remove obsolete recipes for various types of production processes.

It supports SFC definition of recipes, recipe versioning, approval mechanism, organizing into batches and work orders and categorizing into recipe types.

Recipe creation

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RecipeTypetest1

RecipeTypetest2

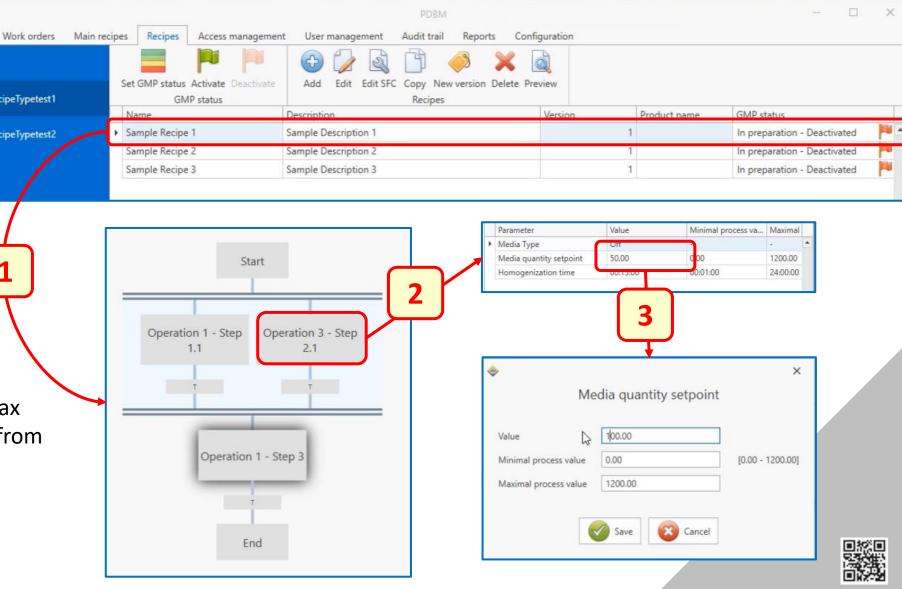
TDA

Create a SFC that fits your process

(SFC= Sequential Function Chart)

2) Define parameters for every operation that is defined in the SFC

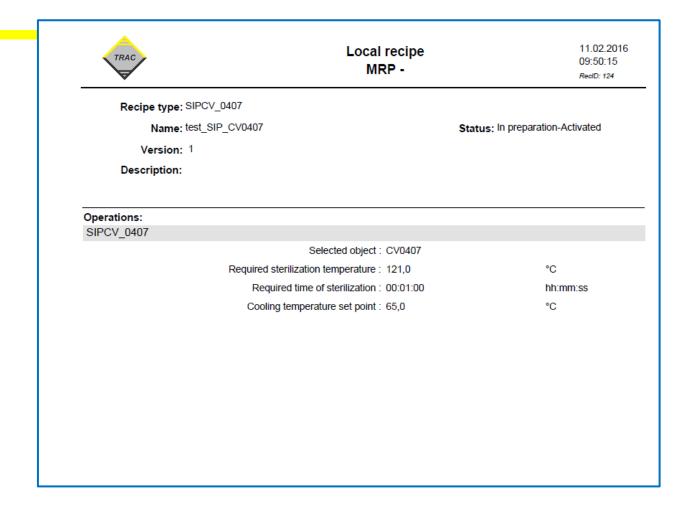
3) The values for every parameter are limited with predefined min/max limits. They can be also selectable from the drop-down list.



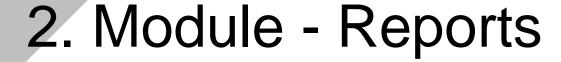
Recipe report example

• Each recipe can be printed to be reviewed and approved











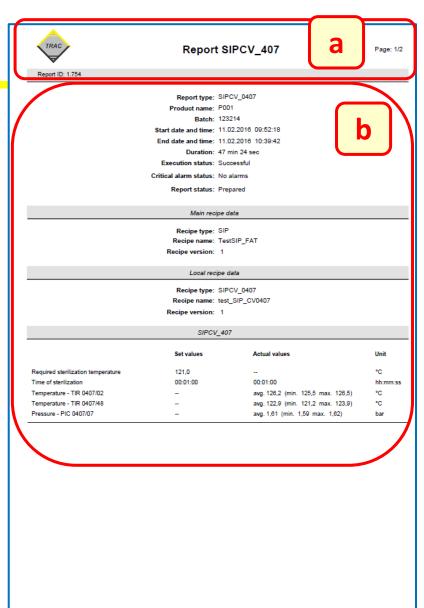
After the industrial process is completed, the PDBM reports module comes into play.

Besides previewing and exporting the reports, the reporting PDBM Reports module gives the user complete freedom to configure the report's look and feel.

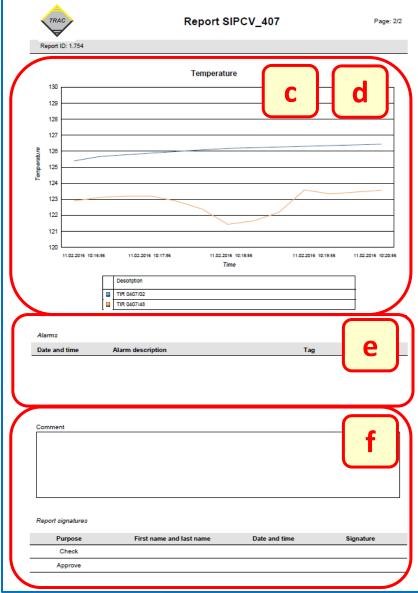
Reports are generated based on the data provided by the external production system while the PDBM application ensures report integrity and safe storage in the database.

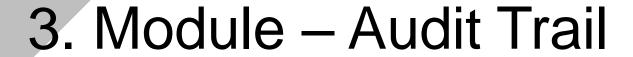
Report example

- 1) Create a custom report layout that suits your requirement.
- 2) Report can be composed of the following report segments:
 - a) Header
 - b) Process data body
 - c) Trending data graph
 - d) Trending data table
 - e) Events
 - f) Review area











Deeper analysis of the process execution and compliance with regulatory standards.

PDBM Audit Trail module keeps records of anything that is happening within the process.

Various types of events are supported: from alarms, authentication events and application events to user defined events that are fully configurable to fit the demands of the external system.



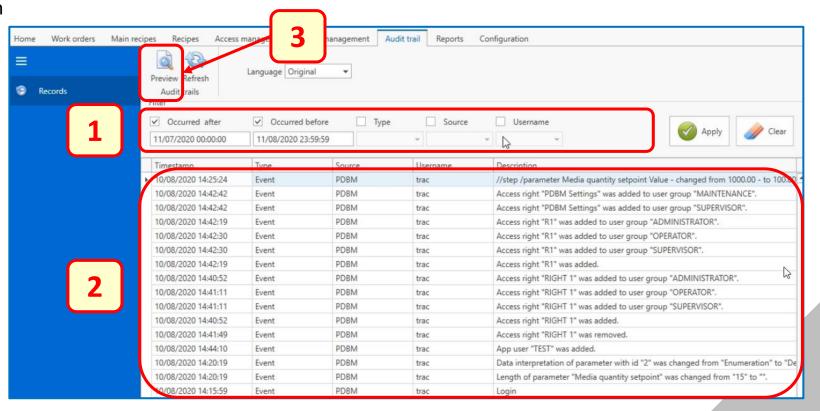
Audit trail - example

1) Filtering data on various parameters



2) List of all events in the tabelarical form

3) Can be printed on the paper or exported as PDF/XLS









In modern industrial sites different users can operate different aspects of the production process.

PDBM User Management module allows the administrator to manage users that can access the PDBM application and organize them into user groups.

Integration with active directory is also supported.



User management- example



- User groups are defined according to the project requirements
- Each user is assigned to one of the user groups

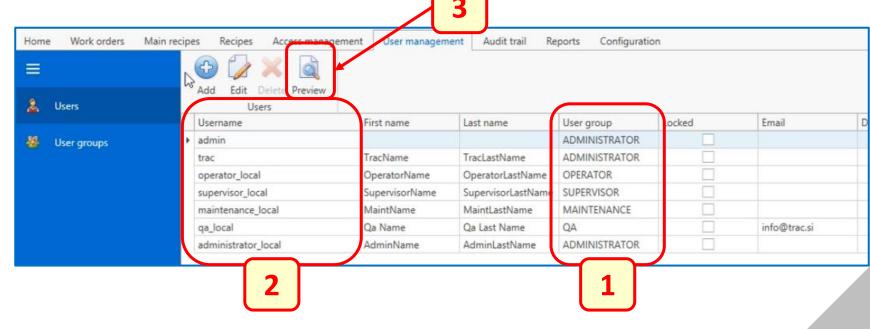
Users can be

local - password verification is done on the local computer

domain, where the authentication is done on the domain server.

In both cases the password data transfer and its storage are made in a secure encrypted way.

 The access configuration can be printed on the paper or exported as PDF/XLS







5. Module – Access Management

Minimize the risks of data misuse with finely grained control over the access rights and system.

Module supports adding internal and external user-defined access rights resulting in a fully customizable access management solution.

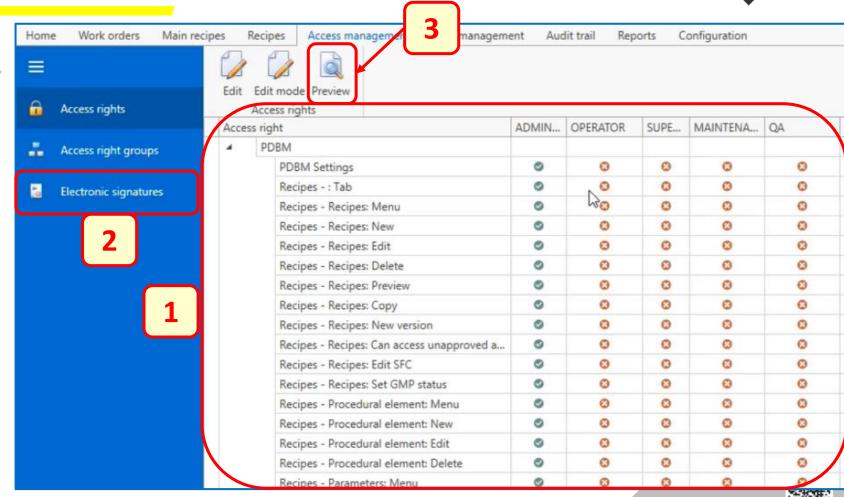
When even stricter access control is required, the PDBM application supports electronic signatures that must be signed before the requested action can be executed.



Access management- example



- Every activity or button has its own Access right property
- This property can be configured selectively to every user group Valid for PDBM, SCADA and HMI
- Definition which activities have to be verified with two-layer verification with electronic signature or electronic confirmation
- The access configuration can be printed on the paper or exported as PDF/XLS







Freedom to configure all aspects of the PDBM

Configuration module gives the user complete freedom to configure PDBM: from process-oriented elements such as operations with their parameters, measurement units and sensors to user interface elements such as translations of user data and table layouts.





Play the challenges with PDBM

TRAC

Is developed to address data management challenges

PDBM

- Simplifies complete control of the process data
- Helps mitigate the risks of data management
- Shortens process time





FMAP

PDBM

While operated as part of FMAP platform which integrates process and analytical equipment into a single platform allowing user to run the whole process through unified and simple interface top notch service for most demanding users is provided.

FMAP

The Flexible Modular Automation Platform (FMAP) is an innovative platform that sets a new standard for data and process control.



About TRAC



Thank you for placing your confidence with TRAC

Our **strategy** is to continuously develop and improve in order to be able to design and develop new automation solutions within different industries.

We strive to be recognized within an industry as a unique, reliable developer and trustable solution finder!







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1992	28+	500+
since	countries	finished projects
over 25 years experiences in the pharmaceutical industry	global presence	successful complex and high- tech projects in different areas:

