



# Release Notes

## Dream Report™

### Version 3.43

## Industrial Reporting and Analysis

**Version:** 3.43  
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### Summary of New Functionality (comparing to the version 3.42 SP2):

- **Setpoint Stability Analysis:** New module. Enables analyzing setpoint stability process and provide analyzed data in a chart or calculated values
- **Archive Import Tool:** New module. Enables importing data from external custom archives into a Dream Report database.
- **Manual Value Editor:** New module. Enables to enter manual values for manual parameters or edit existing values in a database
- **Hot-backup support:** Ability to run 2 Runtime engines in a hot-backup mode
- **New web portal:** Re-designed brand new web portal
- **Batch support in a Web Portal:** Possibility to use batches for report generation in a web portal
- **Logout from Web Portal on user inactivity:** Auto-logout of current user from a web portal after defined inactivity period
- **Advanced result representation:** New tools to format displayed result or its absence.
- **Calculated time period definition:** New option to use result of calculations for time period definition
- **Correction factor for item values:** Ability to define calculation rule, which will be applied to all retrieved item values before statistical calculation
- **String operations in expression object:** Ability to make string manipulations in expression object
- **Conditional calculations:** Ability to specify several conditions and assign separate calculation formula for a separate condition
- **Proactive report generation:** Ability to generate report, based on event, based on calculated analytical values.

### Brief Description of new functionality:

(for more details, please, refer to the [Dream Report](#) help documentation)

#### Setpoint Stability Analysis

The new module allows users to define setpoints and tolerances for each such a setpoint as well

## Archive Import Tool

The new module, which allows user to connect to any custom archive using any history access driver, available in Dream Report, and import that archive into a Dream Report internal history database. The tool will also run on a background and will periodically import all new data (comparing to previous imported data) and import it with defined period.

## Manual Value Editor

The new module allows users to pre-define manual parameters and then in a real time to enter manual values for such parameters, which will be recorded into a Dream Report database and then can be used for reporting.

## Hot-backup Support

User can setup two Dream Report stations with the same identical project and setup one station as a hot-backup station. In this case, backup station will periodically check if main station is available or not. If the main station is available, backup station will disable data logging and report generation. If the main station is not available or is not responding, the hot-backup station will take over, log data and generate reports and periodically check on a background if the main station is back again and as soon as it's back - the backup station will go back to a standby mode.

## New Web Portal

Dream Report 3.43 contains a brand new re-designed web portal, based on ASP.net and .NET Framework 4.0. It has tunable display settings, which enable to display or hide any element of a web portal, report display frame is now re-sizable, user can also automatically refresh report in a frame with tunable period (in seconds). Report generation and display is much faster than before.

## Batch Support in a Web Portal

New web portal enables users to generate batch-based reports in dynamic report generator. Web dynamic report generator enables users to browse all available batch IDs, select any of them and generate report for specific selected batch ID.

## Logout from Web Portal on User Inactivity

User can set a timeout period (in seconds) to perform logout on user inactivity during defined period, then web portal will still keep the session opened, but logout current logged user.

## Advanced Result Representation

Project Settings -> Localization section provides user with a wide set of tools to format the output result. user can set a string to be displayed when there's no result (N/A by default), also digit group separator (e.g. display 1,000,000 instead of 1000000), the way of digits grouping (by 2 or 3 or 4 digits).

## Calculated Time Period Definition

A new option enables user to define calculation period by result of calculation of other statistical objects, where each such object should have a timestamp as a result.

**Example:** Object "BatchStart" will calculate a timestamp of batch start and expression object "PeriodStart" will calculate expression "BatchStart" - 3600 (which is 1 hour before batch start). Then if user will select calculated time period and select "PeriodStart" as start of period and "BatchStart" as end of period - it will represent the time period of 1 hour before start of a batch.

## Correction Factor for Item Values

User can set a simple expression, which will be applied for every value, retrieved for statistical calculation and then all statistics will be calculated on all values after applied correction factor. Available operators: + - \* /

**Example of correction factor:** \*1000 and then, every retrieved value will be first multiplied by 1000 and only then it will go for statistical analysis or display in tables or charts.

## String Operations in Expression Object

Expression object is now able to make string operations. User can concatenate 2 or more strings, concatenate string and a numeric value, make string operations, like extract left, right, middle part of a string, etc.

## Conditional Calculations

Expression object enables users to set multiple calculation expressions, based on condition.

For example: IF (Tag1=1) THEN Avg1\*10 ; IF (Tag1=2) THEN Avg1\*20 etc.

(The syntax for conditions is not the one, mentioned here. Please, refer to Dream Report help to see the right syntax for conditions).

### **Proactive Report Generation**

Dream Report is now able to generate reports, based on event, generated by its internal calculation engine (analytical driver).

For example: User can periodically calculate running hours of a motor and as soon as it reaches 10,000 running hours - automatically generate a service order and send it by email.

### **Corrected problems (comparing to the original version 3.42):**

SCR# 431: ODBC driver cannot retrieve values from PostgreSQL

SCR# 430: Counter function brings value from the future if no values exists in a specified time period

SCR# 382: If amount of items, allowed by license, is exceed a status bar in Designer Studio shows maximum amount of items allowed by license and not a real amount, used in the project.

SCR# 381: Batch list in DRG is empty even if batch values are presented in a database

SCR# 377: Output to excel limited to 10,000 rows for one table. Now it's increased to 100,000

SCR# 376: Internal position of different fields in Reporting tool are not properly located with specific PC video cards.

SCR# 375: Show/Hide "Generate New Report" for certain users in a web portal

SCR# 373: Duration stat function shows N/A in specific customer's project.

SCR# 371: Data from analytical driver cannot be stored to a database if an object is taken from a report, which includes space in report name

SCR# 370: When opening a project that includes Wizcon driver on computer where Wizcon is not installed, all content of logging groups that are based on Wizcon data source will be removed

### **System Requirements:**

**CPU:** PIV 1.6 GHz+

**RAM:** 1Gb+

**HDD:** 250Mb (for installation) minimum

**Video adapter:** No special requirements

**Network adapter:** No special requirements

### **Operating systems supported:**

- Windows 2000 workstation (without Web Portal),
- Windows 2000 Server (without Web Portal),
- Windows XP Professional Edition,
- Windows 2003 Server
- Windows Vista
- Windows 2008 Server
- Windows 7

### **Databases supported:**

- MS SQL Server 2000, 2005, 2008 (including Express edition)
- MS Access 2000, 2003, 2007
- MySQL 4.0, 5.0, 5.1.

- Oracle 9.1, 10.0

### Additional Software Requirements:

- To visualize PDF files you need to install [Adobe Acrobat Reader](#) ver. 7 and higher (the latest version 9.1 is recommended)
- To generate and visualize reports in Excel format, MS Excel has to be installed
- To use Web Portal you have to install Web Server (Internet Information Server) before Dream Report installation

### Demo Version Limitations

If you installed Demo version, it will have the following limitations:

- Dream Report will run continuously for 30 minutes maximum
- Demo license is limited to 25 data items, which can be used in the project.
- Web portal is enabled
- A red line will be added on top of each report page, which says that report was generated with demo version of Dream Report.

#### Note:

Please refer to the **Dream Report online help** to get information about any specific functionality. Online help can be opened in **Help** menu of *Dream Report* studio or using **Start** menu.

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