



**OCEAN DATA SYSTEMS**

The Art of Industrial Intelligence

## **Release Notes**

# **Dream Report<sup>®</sup>**

**Version 5.0 R20-1**

**User Friendly Programming-Free<sup>™</sup>  
Reporting for Automation**

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# Summary of the New Functionality and Enhancements for Dream Report Release 5.0 R20-1

(compared to the original version 5.0 R19-3)

	Module	Description
<b>New Features</b>		
	<i>Communication Driver</i>	OPC UA HDA Driver has been added. It supports encryption and security certificates.
	<i>Chart</i>	Implemented support of Logarithmic Scale for Chart based on LOG on base 10
	<i>Report Data Server</i>	Redesign of RDS engine in term of report generations
	<i>Report Data Server</i>	Added new HDA part for System Driver. This driver provides access to historical values of tags defined in data models.
<b>Minor Improvements</b>		
	<i>Dynamic Tokens</i>	<p>Added possibility to use [f#] dynamic tokens in table headers for alarm, item, step vertical, step horizontal, SQL non-grouped, SQL-grouped tables.</p> <p>Note: It will work on Force Object Update action from the web for the following tables: Alarm, Item, Step vertical, SQL non-grouped.</p>
	<i>Audit Trail</i>	Added remote development operations tracking into Audit Trail
	<i>Table objects</i>	Added ability to vertically align text inside Simple Draw Table and SQL Table
	<i>Remote Development</i>	<p>New parameter for remote project session reconnects timeout:</p> <pre>&lt;Module Name="ConcurrentDev"&gt;   &lt;Section Name = "Timeout"&gt;     &lt;Param Name = "OperationTimeout" Value = "60"/&gt;   &lt;/Section&gt; &lt;/Module&gt;</pre>
	<i>Custom Objects</i>	Add a button to open dynamic token selection dialog to select a token that can be used in Custom Content configuration
	<i>Chart Object</i>	Chart reference lines enhancements
	<i>Web Tree Object</i>	Context search filter implemented
	<i>Web Combo Box Object</i>	Add Web Content objects to the list of "Select Objects for the Update" in Combo Box definition.
	<i>License</i>	Change subscription license upgrade to use specific subscription end time
<b>Comm. Drivers updates</b>		
	<i>Communication Driver</i>	Implemented possibility to select tables in FTView SQL HDA ITEM driver
	<i>Communication Driver</i>	Added Time zone parameter into configuration of GE Historian driver

## Corrected Issues/SCRs (Dream Report 5.0 R20-1)

#SCRs	Module	Description
SD-3269	<i>Batch Definition</i>	Batch list is not updated properly when batch def list received as list of report instances from another combo. See attached project
SD-3271	<i>Communication Driver</i>	Modbus driver items defined in block are not updated correct in unsolicited mode.
SD-3275	<i>Excel Module</i>	A possibility to import data from Excel file with the separate columns for date and time
SD-3276	<i>Communication Driver</i>	StoppedBy field can't be retrieved from BatchDetails table of Review
SD-3272	<i>Communication Driver</i>	Not possible to use a Group column as a filtering condition in Yokogawa Alarms driver
SD-3280	<i>Communication Driver</i>	Tview driver: file explorer doesn't display files.
SD-3279	<i>Communication Driver</i>	Logger crashes upon reload of the project, where MX driver is used
SD-3281	<i>Communication Driver</i>	Increase the number of characters allowed to be presented as a result of SQL Query
SD-3283	<i>Communication Driver</i>	Wrong timestamps retrieved from FT Historian using InfoPlatform drivers
SD-3288	<i>Logger</i>	Data logging stops shortly, when 2 log groups from Siemens S7 are recording frequently
SD-3284	<i>Communication Driver</i>	Report Generation fails to be triggered from ITME
SD-3295	<i>Communication Driver</i>	Generator crashes with WW Historian Alarms driver
SD-3297	<i>Communication Driver</i>	Slow shutdown when using WW Historian driver
SD-3298	<i>WEB</i>	Web Report shows Generation Error as soon as custom object SQL based Bar contains a query that brings empty result set
SD-3308	<i>Chart</i>	Chart shows incorrect timestamps for data when data is requested from Review during DST time change to Winter Time
SD-3306	<i>Communication Driver</i>	PcVue HDS Items Driver doesn't support string values.

## Summary of the New Functionality and Enhancements for Dream Report Release 5.0 R19-3

(compared to the original version 5.0 R2)

	Module	Description
<b>New Features</b>		
	<i>External web content</i>	External web content object enables to insert and use a web page or external documents in reports. Such external content may be a web page or a document (PDF or plain text).
	<i>Communication Driver</i>	Rockwell Automation FactoryTalk real-time values driver
	<i>Communication Driver</i>	Rockwell Automation FTAE database new driver for historical alarms and events
	<i>Communication Driver</i>	Rockwell Automation FactoryTalk historical alarms and events via Rockwell Automation Info Platform
	<i>Communication Driver</i>	Siemens S7 driver has been completely redesigned and support for 1200 and 1500 series has been added.
<b>Minor Improvements</b>		
	<i>SPC</i>	SPC configuration export/import xml file will allow user create SPC definition out of Dream Report project and apply it to the project or transfer the definition between projects.
	<i>GENERAL</i>	Starting from version 5.0 R19-3 Dream Report will have new versioning approach: Where 5.0 – is major DR version, R19-3 correspond to 3 <sup>rd</sup> release in 2019. Added new string into Help About dialog that will show this information.
	<i>Advance Visualization</i>	Added support of dynamic tokens in the item field widget color ranges
	<i>Script Object</i>	Added new property type for script object to hold multiline strings
	<i>Multi Tag Aggregation</i>	Currently, when editing an MTE, if you click <Enter> to go to a new line, it closes the MTE tool. If trying to create a multi-line expression, this is a problem.
	<i>Report Data Server</i>	New System Tags: Number of Reports in the project, Number of Reports in the generation queue
<b>Important Notes</b>		
		Starting from product version 5.0 R19-3 the Database Archiving feature had been removed from the product
		Dynamic Dashboards version upgrade
<b>Driver security updates</b>		
	<i>Communication Driver</i>	In case of connection failure, the message will contain user and password information in ODBC Historical Alarms/Values driver
	<i>Communication Driver</i>	Driver connecting string contain user and password information in "FactoryTalk View SE Historical Alarms and Events DB"

**NOTE: (For more details, please, refer to the Dream Report® Help documentation)**

## Corrected Issues/SCRs (Dream Report 5.0 R19-3)

#SCRs	Module	Description
SD-3240	<i>Communication Driver</i>	Communication Configuration Wizard display in the description field for OSI Soft PI Asset Framework historical values driver that it is real-time values driver
SD-3242	<i>Web Elements</i>	Replacement of time period is not working from Action button when start and end of period taken from expression objects.
SD-3245	<i>DBatch</i>	If at least one process value is missing in one of the batches recorded by DBatch all step table will show NA's
SD-3246	<i>Report Generator</i>	Generator crashes when ADF is applied, based on 1 last value per day, sample-based
SD-3247	<i>Batch Definition</i>	When "Custom View" is used for the batch definition, every time Batch definition dialog is opened all columns for that batch will be reset.
SD-3248	<i>Web Elements</i>	Time Picker is not available with web interactive Pie Graph
SD-3249	<i>Batch Management</i>	Batch end time is not calculated correctly when external database source and SQC in Batch definition are used
SD-3257	<i>Web Manual driver</i>	Web Manual input with the option "Current Time" must take the time of submit action
SD-3258	<i>Communication Driver</i>	Browse issue with OPC-UA server (the list is not complete)
SD-3260	<i>WEB</i>	Update object request does not pass User name into Generator. It's not possible to retrieve User name in the expression object with help of LUA function in this case
DEV-225	<i>Advance Visualization</i>	Wrong AVC results in chart when digital data is used (0 1) Wrong AVC results in Value Range Indicator script object when digital data is used (0 1)
DEV-231	<i>Designer Studio</i>	Report Settings Dialog - Changes made through the panel are not saved
DEV-237	<i>RMC</i>	RMC does not refresh list of reports when report is renamed in Studio and Refresh Reports is pressed
DEV-238	<i>CHART</i>	Chart doesn't display vertical lines when chart based on SQL query. Simulation project attached.
DEV-244	<i>GENERAL</i>	Display the total number of available web clients in Help About (Studio/RMC)
DEV-247	<i>Communication Driver</i>	Added check for data model name, so it cannot be the same as data source name and an opposite!

# Summary of the New Functionality and Enhancements for Dream Report Release 5.0 R2

(compared to the original version 4.83)

- **Electronic signature in the web portal**  
Authorized users now can electronically sign reports from the DRWeb portal. This feature was developed in addition to the standalone e-Signature Console.
- **New report output format - XML report files**  
A new user-configurable XML output format allows users to build reports to comply with XML submission requirements of water quality reports.
- **Script Object with objects library**  
Using LUA scripting, users can build their own graphical objects for reports – e.g., a circular chart object, status displays, etc.
- **New Script-based Graphical Objects** *(based on script object library)*  
Gantt chart, new gauges, and other graphical objects and shapes.
- **Powerful BI Dashboards**  
Create, share, and manage dashboards through user-friendly interfaces, and connect your dashboards to all your Industrial and Business data sources.  
*Note: This feature has limited availability for certain OEM's*
- **Object-independent Updates in Web Portal**  
Faster updates of web reports, with uninterrupted web page refreshes.
- **Chart reference lines**  
Option to add Vertical and Horizontal reference lines based on preset or dynamic criteria/limits.  
For the Web Interactive Chart, the new interactive cursors will allow highlighting of a selected area of data points on line charts.
- **Batch Manager enhancements**  
Ability to use advanced SQL conditions, use DSN-less database connections, and improved user interface.
- **Report Data Server (RDS)**  
Dream Report becomes an “information platform” for external systems. Expose Dream Report’s powerful data aggregation and calculation engine to other HMI’s, web portals, custom applications, etc.
- **OPC DA Server for RDS**  
A new Dream Report OPC Server exposes the Analytic Data Server. The OPC Server exposes the project’s data to external third-party tools as a real-time OPC data source.
- **Cost Calculation Module**  
The Cost module allows users to define rates and tariffs (i.e., methods and definitions calculation of Cost), and use the results of those calculations in the reports. It has support for Energy Tariffs & Billing rates/schedules for utilities billing reports.
- **New options in “Counter” statistical function**  
The “Counter” statistical function has been enhanced to allow the user to specify the “totalizer” direction (increasing/decreasing counter), as well as new options for counter calculations, including simple difference (last value minus first value), up-counter, down-counter or automatic mode. Additionally, if Cost calculations have been defined, a Cost definition can be associated with the Counter calculation.
- **“Difference” Statistical function in Bar object**

The “Difference” statistical function is now available in the Bar Graph object. This is useful for production counters and utility meter displays over various time intervals.

- **Dynamic Alarm Filters and Filter Selection from the web**  
New option in the Web Combo box – “List of Alarm Filters”. This enables users to select predefined alarm filters in ad hoc reports on alarms and events.
- **New Alarm Statistical functions (in Single Data Object, Bar Graph, ...)**  
New statistical functions for alarms statistics calculations in several data objects - Maximum duration, minimum duration, maximum response time, minimum response time.
- **Optional In-memory Calculation of Step Commands**  
The Step Table object can enable “in-memory calculation” option in, which provides significant improvement in generation performance of the Step Table where this option is selected. Please note that this option will impact available memory, so should be used with a reasonable amount of data.
- **Freemium License**  
Free for distributors, 10-tag Dream Report permanent license available.
- **Subscription License Model**  
Dream Report version 5 supports both permanent and annual subscription licensing. For more details please contact your sales representative.
- **AVC (Advanced Visualization Condition) Manager**  
The Advanced Visualization Condition manager is a tool for creating and storing advanced visualization condition definitions, that can be later used in single data item, Automatic statistical table, Step table and SQL table.
- **TDM (Time Definition Manager)**  
The Time Definition manager is a tool for creating and storing time definitions for quicker use in creating reports.
- **Search Objects Feature:**  
New search options added to the reports tree and to the “add dynamic token” screen. Write text in the search box and the list will be highlighted.
- **Chart enhancements:**
  1. UI enhancement: In data definition tab, move the line up or down in the hierarchy.
  2. In the Appearance tab, two new options added:
    - a. Format – Real or Scientific
    - b. Precision.
- **Test connection to the mail server:**  
A new button is added to the Report Settings – Email Configuration: “Send Test Mail”. This button will help user to ensure that the email settings correctly entered.
- **New quick info panel – Report Settings (left side of the screen):**  
The Dream Report studio has a new panel – “Quick Info Panel”. In this panel user can find the reports list and get quick access to the report settings - time definition, scheduling and format settings.
- **Alternative destination folders for report Instances:**  
In “Report settings” in “General” tab, when the “copy report files to folder” option is checked, uncheck the “apply to all” option to pick the report instances and copy them to a different folder.
- **FTP Upload Enhancement:**  
If the FTP upload is selected, user can check the “active mode” option if the FTP server requires “Active Mode” for the connection.
- **Data Model Configuration Enhancement:**



Two new properties are added for the data model definition – **Description** of the Virtual Tag and **Units**

- **Widget Configuration Enhancement:**  
In the Widget configuration by double click on the Minimum or Maximum limits. User will be able to add Dynamic Token as the limits from the list of objects available in the report.
- **Custom object library:**  
The custom object library has new set of objects in the list.  
*Note: It is known that if user is planning to use custom object as part of Pivot group its wont work as any other standard Dream Report object. This limitation is planned to be resolved in the next version release.*

**NOTE:** (For more details, please, refer to the Dream Report® Help documentation)

## Driver Enhancements

- **New Advanced ODBC Alarm driver**  
Extracting alarms from 3rd party databases using simple mapping with dynamic parameters list and alarm filters.
- **New System Driver**  
Exposes “system health” parameters for reporting.
- **New Rockwell Driver**  
The Rockwell “FactoryTalk View InfoPlatform Historical Values” connects to the FactoryTalk View product of Rockwell.
- **Proficy Historian Alarm Driver Performance Enhancement**  
Improved driver for GE Historian historical alarms extraction.
- **IntelaTrac Driver Enhancement**  
Exposes data collected from nested/conditional rounds in IntelaTrac.
- **WWALM Driver Enhancement for alarms/events**  
Ability to configure extraction of alarms and/or events separately, resulting in faster query times.
- **Updated Communication Driver Names**  
The descriptive names of several communication drivers have been updated to better reflect the current product names/functionality with which they work
- **Tag values in CSV files Driver Enhancement:**  
New button added to the configuration – “Item name rules”: User will be able to remove or replace certain characters in the tag name.
- **InTouch Edge / InduSoft Driver Enhancement:**  
New option added – Ability to communicate through encrypted port and possibility to retrieve the historical date with UTC based timestamps.

**NOTE:** (For more details, please, refer to the Dream Report® Help documentation)

## Corrected Issues/SCRs (compared to the previous version 4.83)

SCR#	Module	Description
SD-3233	[GENERATOR]	A value of the report object cannot be used in the report file name. It displays 0 instead of the object value
SD-3232	[Web Portal]	When pressing on "Refresh" Button in the "Web Trend" Report error occurs.
SD-3231	[GENERATOR]	Generator exits immediately after project start with error message in RTM log "exit on crash" on windows 7
SD-3230	[Cost Module]	Wrong calculation result using Cost module
SD-3227	[InduSoft]	Advanced SQL Condition doesn't work with Indusoft Historical Values driver, using mapped item names.
SD-3226	[InduSoft]	Indusoft wizard add Indusoft legacy drivers to the project. See description.
SD-3224	[GENERATOR]	Tuning parameter from ODS.System.config TimePeriodIncludeEnd is not considered in calculations using Advanced ODBC driver with option timestamps in SEC FROM 01.01.1970
SD-3222	[Adv. ODBC Driver]	Hierarchy tag browse doesn't work in the Advanced ODBC driver
SD-3221	[Citect Historian DRV]	A possibility to configure the number of days back, to search for the previous point for Citect Historian driver
SD-3219	[SQL Table]	SQL Tables Footer are not available in Analytical Driver
SD-3217	[Web Portal]	Time picker displays selected date in a default format, ignoring Localization settings of the project
SD-3209	[Web Portal]	Generate PDF" button doesn't work with HTTPS protocol
SD-3207	[OPC HDA DRV]	Some stat. functions don't work with OPC HDA Boolean values
SD-3203	[SPC Module]	Exception while generation of SPC object when data source return only one value in time period.
SD-3202	[Web Report]	Zoom issue for Web reports if in the project iFix drivers was used.
SD-3200	[GENERATOR]	CSV reports are not copied upon report generation
SD-3199	[GENERATOR]	Report is generated on event from iFix upon project reload
SD-3197	[Citect Historian DRV]	No items browse in the multi-cluster Citect project
SD-3194	[InTouch ALG DRV]	Some events are missed in the Alarms Table from the InTouch ALG files
SD-3193	[Yokogawa Hist. DRV]	Some "*.gse" Yokogawa files cause crash of DR modules (Studio, Logger, Generator)
SD-3192	[Excel Driver]	DR fails to export all data from xlsx file
SD-3191	[GENERATOR]	MX Event-based report is generated upon reload of the project
SD-3190	[GENERATOR]	Boolean values False and True displayed as 0 in SQL table using query to GE iHistorian.
SD-3189	[IntelaTrack DRV]	Query text to IntelaTrack should be changed
SD-3188	[Batch Manager]	Wrong batch data from DRG when Batch is defined in external DB
SD-3187	[Review DRV]	End of the period is included in the request from Review values driver
SD-3184	[CSV Realtime DRV]	Duplicated records logged into the database using CSV real time values driver. Simulation project attached.
SD-3183	[Web Portal]	Combo Box doesn't display the tag list from UHH direct driver, if a report object retrieves data from the same source
SD-3182	[DBatch]	DBatch fails to connect to the remote SQL Server
SD-3175	[WinCC HDA]	Slow performance of the WinCC Alarms driver.
SD-3173	[OPC UA]	No browse of items from Yokogawa OPC UA server.
SD-3169	[GENERATOR]	User that was added from Windows Active Directory and the name of the user includes capital letters doesn't see unsigned reports in e-signature console.

SD-3168	[GENERATOR]	Generator crashes when step of the Step table is batch-based
SD-3161	[OPC UA]	OPC-UA driver issues. Updated.
SD-3158	[DRV INSQL HDA ITEM]	Forward slash symbol is not treated well with WW Historian summary tags
SD-3151	[YOKOGAWA]	No Batch data from Yokogawa files
SD-3150	[DRV PCVUE HDA ALARM]	DR Studio crashes with PcVue HDS Alarms driver
SD-3149	[Citect VJH]	Alarm filter doesn't work if Alarm Text column doesn't contain any values.
SD-3147	[Batch Manager]	"Days back" option of the Batch Def. is not applied in DRG. Minor Batch Definition Improvements. Now if setting "days back" to 0 it shows all batches.
SD-3141	[Generator]	Error messages in the log file about "failed attempt to copy non-existing report file targets". If you have only PDF, you get an error about XLS and CSV files.
SD-3139	[OPC UA RT]	Norwegian symbols are garbled with OPC-UA driver.
SD-3137	[Chart]	The line in chart is not displayed if advanced visualization is specified in the chart, and the values for chart line out of range of specified limits.
SD-3129	[Report Setting]	If remove Daily or Weekly Report generation schedule, and reopen Studio, then new timestamp 02:00:00 will be added to "Daily or Weekly Report" generation schedule
SD-3126	[InduSoft]	DR Studio crashes upon modifying Communication Drivers dialog.
SD-3123	[Generator]	In a Hot Backup mode, user can generate reports manually from RMC and Web Portal, but cannot use Action Button "Generate Report"
SD-3122	[GENERATOR]	XLSM not copied to a second location specified in the report settings
SD-3114	[S7TCP RtItem]	Record on event from Siemens S7 is not functional.
SD-3109	[STATLIB]	Stat function "Difference" returns N/A with some types of values.
SD-3108	[OPC RtAlarm]	Logger crashes upon alarm from OPC AE update.
SD-3105	[YTPCVueHDA]	Generation on event from PcVue Web Services doesn't work
SD-3102	[CSV Alarms]	CSV Alarm driver doesn't transfer the data into Dream Report database
SD-3091	[STF]	Logged Value Counter has no result
SD-3089	[DRV WWMX RT ITEM]	Generator crashes upon start of the project
SD-3085	[DRV ODBC HDA ITEM]	Average value can't be retrieved using Advanced ODBC driver
SD-3077	[LICENSE]	Free web client is not recognized by web portal
SD-3072	[EXCEL]	Excel report cannot be printed
SD-3070	[GENERATOR]	If an Expression containing other elements of a table Footer was created before these elements, it is not possible to retrieve these elements' values in the report.
SD-3066	[GENERATOR]	An object which gets a footer value from a Step Table, is not calculated when used in another report
SD-3058	[DATASERVERHDA]	Setpoint Analyses functions do not work based on Data Models
SD-3049	[OPC DA]	Option to set the reconnection period if the connection fails for OPC DA driver.
	[OTHER]	VRI (Virtual Report Instance) definition export to CSV now can be exported with a header line. General refactoring/enhancements for VRI import and export to CSV done.
	[Report Settings]	Missing button "Add" in <i>Select Data Item</i> group in "Report Name Format" tab
	[XLS Export]	Log messages with LEVEL_NORMAL level and ERROR_MSG message type
	[STATLIB]	Calculate "diff" for different types of VARIANT. Previously, it was calculating for VT_R8 only

# System Requirements

## **Hardware Minimum Requirements**

- **CPU:** Dual Core 2.4 GHz+
- **RAM:** 8 Gb+
- **HDD:** 2 Gb (for installation) minimum, 7200 rpm or higher (or SSD)
- **Video adapter:** Minimum memory 128 Mb
- **Network adapter:** No special requirements
- **Monitor resolution:** 1920x1080

## **Operating Systems Supported**

- Windows Server 2012 (incl. R2), any SP, (32-bit and 64-bit editions)
- Windows Server 2008 R2, with SP1 ONLY, (32-bit and 64-bit editions)
- Windows 7 (32-bit) and (64-bit) with SP1 ONLY
- Windows 8 Embedded, Professional and Enterprise (32-bit and 64-bit editions), incl. SP1 and SP1 R2
- Windows 8.1 Embedded, Professional and Enterprise
- Windows 10
- Windows 10 for IoT
- Windows Server 2016
- Windows Server 2019

**Important NOTE: With Windows 2012 users will have to install Chrome Web browser as IE 10 is no longer supported.**

## **Databases Supported**

- MS SQL Server 2005, 2008, 2012, 2014, 2016 and 2017 – Express, Standard and Enterprise (using ODBC SQL Native Client 11)
- MS Access 2000, 2003, 2007, 2010, 2013, 2016
- MS SQL Server 2005, 2008 (incl. R2)
- MS SQL Server 2012, 2014, 2016 and 2017 over ODBC SQL Native Client 11
- MySQL 4.x and 5.x versions over ODBC driver 3.51, 5.1
- Oracle 11, 12 over Oracle XE ODBC driver

## **Web Browsers Support for Web Portal**

- Internet Explorer 11
- Chrome
- Edge

**Important NOTE: Browsers must support HTML5!**

## **Mobile Operating Systems**

- The Dream Report Web portal is supported in a web browser on Android, iOS (both iPad and iPhone) and Windows Phone 8.1 and 10.

## **Additional Software Requirements**

- To visualize PDF files, Adobe® Acrobat or other PDF viewer should be installed (the latest versions are recommended). The Adobe® Reader installer is located in \ODS\Dream Report\Utilities\
- To use the Web Portal, a web server (Internet Information Server or other) must be installed before the Dream Report® installation. For additional information on configuring IIS for use with Dream Report, please refer to the Web Portal section in Help or the tech note in the Dream Report website (<https://dreamreport.atlassian.net/wiki/spaces/DreamReport/>)
- .NET Framework 3.5 and .NET Framework 4.61 or higher should be installed before Dream Report® installation. Please note that for the successful installation of .NET 4.61, the latest Windows updates must be applied to the operating system

## **Demo Version Limitations**

If you have installed the Dream Report Demo version (i.e., running Dream Report in “Evaluate” mode, with no valid license installed,) it will have the following limitations:

- Dream Report Studio will show a yellow bar indicating that “Studio is running without a license”
- Dream Report® runtime will run a project continuously for 30 minutes and then shut down.
- A maximum of 100 unique items (tags) is allowed
- Web portal is enabled with one concurrent web client connection
- A red line will be added on top of each report page, which says that report has been generated with the 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 the *Help* menu of Dream Report Studio (F1) or using the Windows *Start > ODS > Documentation* menu.

## To buy Dream Report®

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