



OCEAN DATA SYSTEMS

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Release Notes

Dream Report[®]

Version 2023

Patch 1

**User Friendly Programming-Free[™]
Reporting for Automation**

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Summary of New Functionality and Enhancements for Dream Report Release 2023 Patch 1

(compared to the original version 2023)

	Module	Description
New Features		
	<i>[Yokogawa Data Importer]</i>	The Yokogawa Data Importer allows importing the data out of Yokogawa recorders files into MSSQL, MySQL or Oracle database for further data analysis and reports creation.
Other Enhancements		
	<i>[Designer Studio]</i>	Email validation improvement.
	<i>[Remote DEV]</i>	Added comment on user's password change
	<i>[Designer Studio]</i>	TEXTBOX, Copy text after final text preparation, in some cases during web report generation can cause to an unexpected behavior
	<i>[WEB]</i>	Time zone consistency handling
	<i>[LUA]</i>	Support of LUA scripting in SQL and Step Tables
	<i>[Communication Drivers]</i>	Post-Script function in a driver configuration allows users to add and execute LUA script for any communication driver instance. The script will be executed after each driver instance call. That script will be applied to any values or alarms, which a driver would return to the reporting engine.
Comm. Drivers updates		
	<i>[InfluxDB historical Driver]</i>	New InfluxDB historical driver for communicating with InfluxDB cloud-based databases.
	<i>[OPC UA drivers]</i>	Support for HTTPS communication
	<i>[DRV WEB MANUAL HDA]</i>	User is now recorded into the Audit Trail, with manual data operations. Previously, NULL was recorded instead of the username.
	<i>[DRV VTSCADA HDA ALARM]</i>	Added support for VTSCADA 12 and higher

Corrected Issues/SCRs (Dream Report 2023 Patch 1)

#SCRs	Module	Description
SD-3657	[Audit Trail]	Audit Trail, Dream Report does not record the User when auditing manual data entry activity is performed
SD-3658	[WEB]	If user clicks on the name of the Web Report and not on the icon, it shows "Generation completed with error"
SD-3660	[GENERATOR]	Generator crashes when a Footer is added to the SQL Table of the attached report
SD-3666	[DRV ODBC HDA ITEM]	Advanced ODBC Driver - "Milliseconds From 1970" option is not working
SD-3672	[STUDIO]	Dash character in email address causes an error message in Report Settings
SD-3675	[DRV ROCKWELL INFOPLATFORM HDA]	FactoryTalk Historical values driver (SDK): no values if an item name contains @ symbol
SD-3677	[REMOTE DEV]	Driver List is empty when creating an object using remote development
SD-3681	[WEB]	Web Portal consumes numerous web clients of the license when used in iFrame
SD-3684	[DRV EURO THERM DATAREVIEWER]	Eurotherm Data Reviewer historical messages driver unable to read data after upgrade to 2023
SD-3685	[GENERATOR]	Error Message appears when reset Manual Data with User Authentication activated.
SD-3686	[WEB]	SQL Tables are resized in Web Report
SD-3687	[RCS]	Memory leak on Remote Connectivity Service (RCS) side when using remote driver for historical values
SD-3689	[DRV MODBUS]	Fix for reading values defined in block/array. "Recording data in DR internal DB by "Record in Item Value Change" mode does not work when Modbus driver is used"
SD-3690	[WEB]	Leading spaces are removed from SQL query text in web report.
SD-3692	[DRV VTSCADA HDA ALARM]	Fix for Designer studio crash when adding filter in VTScada Alarm Driver without choosing Column, Operator or Condition.
SD-3694	[DRV OPC UA History]	Add "GeneralCallTimeout" to OPC UA History driver to allow a longer wait to receive the data set from OPC UA Server
SD-3695	[GENERATOR]	External expression gets N/A if text value from SQL / Step Table footer when used in expression object
SD-3697	[GENERATOR]	Exception upon generating report with SQL Table using dynamic row height
SD-3699	[GENERATOR]	AVC in step table does not support column tokens [c#]
SD-3700	[Audit Trail]	When administrator unlocks the locked user, this action/event is not captured in project audit trail.
SD-3576	[DRV PcVue WS]	PcVue Online WS Driver writes 0 values as well as causing for PcVue crash
SD-3703	[Web]	When user configures IIS on Win2012 server by Configure IIS option, it fails with an error.
SD-3696	[Web]	Wrong error message on the web portal upon attempt to login with a locked user.
SD-3706	[ASR object]	The [ip#unit] ("Get unit from item") feature is not supported in Automatic Statistical Table (AST).
SD-3707	[FT View SE Hist Driver]	FactoryTalk View SE Historical Values DB driver: if no values at the first step of a Step table, other steps return no data.
SD-3702	[RA PLC RT Driver]	String and bool values are displayed incorrectly
SD-3708	[Adv. ODBC Driver]	"Empty string value" causes wrong data representation in Item Table when Adv. ODBC driver is used

Summary of New Functionality and Enhancements for Dream Report Release 2023

(compared to the original version 2020 R2 SP1)

	Module	Description
New Features		
	<i>[Web Clusters]</i>	Web Cluster feature allows users to specify a report area (report cluster) with one or multiple objects, and provide a URL to that specific cluster, so that it can be published in any external web content container.
	<i>[Report Levels]</i>	User Authorization for report levels – in Studio configuration User Authorization for report levels - Runtime support User Authorization for report levels - Web portal support
	<i>[Security]</i>	New e-Signature functionality to enhance user experience for electronically signing reports: new “signed” states; location of unsigned reports; notification for reports pending for signature, changes in use of PINs
	<i>[Security]</i>	URL White List URL – option to specify which embedded URLs in reports are approved/acceptable
	<i>[Web]</i>	Named Web Clients – option to reserve web client licenses for specific named users.
	<i>[Web]</i>	Web reports display options: for PC or Mobile. Introducing a new option to set report type.
Other Enhancements		
	<i>[Designer Studio]</i>	Object Tree moved from the left side to the right side of Designer Studio – improved UI for larger projects.
	<i>[Web]</i>	Web Portal customization - added ability to configure both custom Project Name, and custom Welcome Message, in the web portal
	<i>[Web]</i>	Reloading project shouldn't reset web display to a Welcome page, if report was opened through WebAPI
	<i>[Remote Development]</i>	Add timestamp information for revision history in concurrent development mode.
	<i>[Security]</i>	Following External Cyber Security Audit, security enhancements were implemented in the Web Portal.
Comm. Drivers updates		
	<i>[AVEVA Alarms ODBC]</i>	New AVEVA Historian historical alarms ODBC driver
	<i>[AVEVA Insight OEE]</i>	New AVEVA Insight Performance (OEE) historical data driver
	<i>[Eurotherm Reviewer Driver]</i>	Support of SQC (SQL-based filtering) in new Reviewer driver
	<i>[OSIPI Web API]</i>	New OSI PI web-based API historical data access driver

	<i>[BACnet Driver]</i>	BACnet driver recompilation with new SDK v75, and removing license limitation for BACnet drivers
	<i>[Siemens Desigo CC Driver]</i>	New Siemens Desigo CC system historical values driver, based on web REST API
	<i>Rockwell Automation PLC Real-time driver</i>	General stability improvements and corrections in UI
	<i>Units Support</i>	Added Units support for the following drivers: AVEVA Historian, GE Proficy Historian, Advanced ODBC driver, and in Data Models

Corrected Issues/SCRs (Dream Report 2023)

#SCRs	Module	Description
SD-2664	[Web]	Time picker does not support font modified settings in web portal
SD-3350	[Web]	If the "Filter edit box in Web" parameter is On in SQL table, the last row of the table does not show up.
SD-3483	[Web]	Some of the web themes result in no color indication on the e-Sig "Pencil" icon tell if signed or unsigned.
SD-3542	[SPC Module]	Memory leak and exception while report generation with SPC histogram object when histogram is based on array of the same values.
SD-3543	[e-Signature]	Report opened in PDF can't be e-signed, but it is marked as signed in the Web portal
SD-3545	[Web Chart]	Web Chart display incorrect values (rounded to integer) on tooltips and on grid on Y axis for negative values.
SD-3550	[General]	CSV and XML targets are not supported for report generation from command line
SD-3551	[Web]	Disabling Report History in Project Settings - Web portal, does not work properly
SD-3554	[Batch]	Dynamic generation on Absolute Batch ID fails from web portal
SD-3555	[AST object]	AST with vertical orientation populates value inside the Excel template in a wrong way
SD-3561	[UM]	A user who is a part of a Windows user group with admin rights, doesn't get admin privilege
SD-3562	[Web]	Reloading reports resets Web Portal to a Welcome Page
SD-3564	[General]	Improved stability in the report generations. Unexpected behavior of Generator process.
SD-3572	[Web]	Folder management (Report Levels) in Web is not working properly, while report's generation it jumps to parent folder from selected subfolder
SD-3586	[RA FT DRV]	Browse of tags failed using FTSQL driver when type of the column TagName is varchar(255) in the DB.
SD-3588	[Web]	Error message - Missing JWT Token in Authentication HTTP Header pops up after login in Web E-signature page.
SD-3589	[Web]	Draw tables loose alignment in Web Report
SD-3592	[Adv. ODBC Alarms DRV]	Advanced ODBC Alarms driver with Custom Property with Reserved Name in SQL (User)
SD-3594	[Rem. Dev.]	User Locked status is not available in Remote Dev Mode
SD-3595	[Step Table]	Column type Row Index can't be changed in a Step Table
SD-3597	[AVEVA\Wonderware Hist. DRV]	SQC in Batch Definitions does not work if batches are defined by data item selected from AVEVA\Wonderware Historian driver.
SD-3598	[Studio]	Dream Report crashes when right click on report free area of designer
SD-3600	[Alarm Table]	Alarm Display Filters are not applied in some Alarm Tables
SD-3601	[DBatch]	DBatch stops to write process values when batch id exceeds 32767 and SQL server or MySQL is used as project database
SD-3602	[RA FT View SE Hist. Values DB DRV]	Driver FactoryTalk View SE Historical Values DB returns wrong result for statistical function Running Time when no advanced SQL condition is used
SD-3603	[RA FT View SE Hist. Values DB DRV]	Driver "FactoryTalk View SE Historical Values DB" incorrectly handles requests with advanced SQL condition when condition tag contains "/" character, for example: //::[PLC1]Train_41_Actual_Step
SD-3604	[Web]	Web portal is not working properly when using chromium with too much reports in the project
SD-3605	[Studio]	DR Studio crashes upon adding alarms filter from FTView SE Historical Alarms, when there's no connection to FTView

SD-3606	<i>[Web]</i>	Web objects are not working properly when the SQL Table has no headers
SD-3608	<i>[OPC UA RT DRV]</i>	OPC UA RT values driver: Test connection fails because certificate file cannot be copied
SD-3609	<i>[SPC Module]</i>	Incorrect configuration of SPC can lead to abnormal memory usage and generation exception.
SD-3611	<i>[OSI PI AF DRV]</i>	No tags browse in OSI PI Asset Framework driver
SD-3614	<i>[AVEVA Hist. SDK (AE) DRV]</i>	AVEVA Historian SDK (alarms/events) driver requires more waiting time to establish connection to the server.
SD-3615, SD-3418	<i>[E-Signature]</i>	In E-Signature configuration, text font option is not working properly
SD-3616	<i>[General]</i>	When SQL table receives data of type DATETIME with TIME part filled only it can lead to exception during report generation
SD-3618	<i>[E-Signature]</i>	E-signature page displays incorrectly (overlapped rows)
SD-3619	<i>[Alarm Table]</i>	Custom Alarm filter based on Custom Property with Reserved Name in SQL (User) doesn't work. Alarm table brings N/A.
SD-3620	<i>[RCS]</i>	Generation on event from Remote driver fails
SD-3624	<i>[OPC UA RT DRV]</i>	Data aren't logged in DR DB from ADISRA OPC UA real time Server.
SD-3625	<i>[OPC UA RT DRV]</i>	SDO brings "err" using current value from ADISRA OPC UA real time Server for some tags.
SD-3628	<i>[RA PLC DRV]</i>	Generator crashes in the project with multiple write-backs to Rockwell PLC's
SD-3631	<i>[General]</i>	Arabic font is garbled in PDF
SD-3632	<i>[SPC Module]</i>	SPC Nelson Rules Calculation fails if use dynamic TagName for SPC Configuration
SD-3634	<i>[Web]</i>	It appears that the "Default" report instance is generated when generating a report from the Portal home page, regardless of which instance is being generated (generated by clicking the new report generation icon).
SD-3635	<i>[Web]</i>	Drawn objects are shifted in Web Report
SD-3636	<i>[Adv. ODBC HDA DRV]</i>	Wrong query for getting previous value in the Advanced ODBC Historical Values driver
SD-3637	<i>[Web]</i>	Option "Dynamic row height" doesn't work in web report
SD-3638	<i>[SQL Table]</i>	"Open Sans" font is garbled in SQL Table in PDF.
SD-3639	<i>[Eurotherm Reviewer DRV]</i>	Generator crashes upon generation of the alarms report from Eurotherm Reviewer when specific set of uhh files used
SD-3640	<i>[OPC UA RT DRV]</i>	Write-back doesn't work with Kepware OPC-UA
SD-3641	<i>[Logger]</i>	Trigger tag is recorded with another timestamp, comparing to the other tags of the group

Summary of New Functionality and Enhancements for Dream Report Release 2020 R2

(compared to the original version 5.0 R20-3)

	Module	Description
New Features		
	<i>Notifier</i>	New notification module. This module allows message exchange between users accessing the project at runtime. User can send messages with link to problematic reports directly from the Web portal.
	<i>Values Quality Management</i>	Support of Value Quality when representing the data in objects like Chart, Item Table and Step Table. List of drivers that support Values quality can be found in the Help.
	<i>Statistical Functions</i>	New Alarm related stat functions for ISA 18.2 compliance. Refer to the Help documentation.
	<i>New Eurotherm Reviewer Comm. Drivers</i>	Added new Reviewer Eurotherm drivers HDA Item, HDA Alarms, Batch Monitor
Other Enhancements		
	<i>Web</i>	Combo box to filter report list by user rights
	<i>AST</i>	Added support of Nelson Rules statistical functions to Automatic Statistical Table object
	<i>Web</i>	Added support of X-Y mode in Web interactive Line Chart
	<i>SQL Table</i>	Advanced data representation in SQL table as with Item Table and Alarm Table using Lua HDA driver
	<i>Project Audit Trail</i>	Audit Trail – logs for communications errors from drivers AVEVA drivers, GE drivers, Rockwell Automation drivers, OSI PI drivers and OPC drivers
Comm. Drivers updates		
	<i>OPC UA Real-time</i>	General stability improvements
	<i>Rockwell Automation PLC Real-time driver</i>	General stability improvements and corrections in UI
	<i>Units Support</i>	Added Units support for the following drivers: AVEVA Historian, GE Proficy Historian, Advanced ODBC driver, and in Data Models

Corrected Issues/SCRs (Dream Report Release 2020 R2 SP1)

#SCRs	Module	Description
	[Eurothem DRV]	Eurotherm Review driver is using an old mdb ODBC driver. Some SQL expressions are not supported in the old ODBC driver. New ODBC driver for *.mdb, *.acddb databases to be used.
	[FT HDA VALUES AND ALARMS DRV]	Timestamp format in SQL queries was changed due to customer request.
	[SECURITY]	AVEVA Security Audit
	[SECURITY]	RTM Service is installed with Local System account but has to be installed with Virtual Service Account
	[SECURITY]	Digital signature is added to exe and dlls
	[SECURITY]	Files in System folder can be changed by non admins
	[SECURITY]	Syncfusion Dashboard service is installed with Local System account
	[AVEVA DRV]	AVEVA Historian Historical Values Driver: Ability to select a column to be used for Quality value, ability to specify which values to be considered as good and ability to include NULL values into result set
	[LICENSE]	AVEVA license check can fail after some undefined time interval
	[GENERAL]	Tuning parameter "UsePrevPointForFirstStep" has to be disabled by default
SD-3203	[SPC]	Out of memory crash fixed.
SD-3408	[Modbus]	Dream Report log wrong values in internal DB using Modbus driver.
SD-3425	[BAR GRAPH]	In the Bar Graph, data displays are being overlapped by the adjacent bar in a group
SD-3485	[CIAT]	DR_CAIT process is not restarted with reload of DR project.
SD-3486	[BATCH]	Batch definition based on Custom View doesn't work.
SD-3490	[Rockwell PLC]	Adding tags to the logger studio from Micro Logix PLC causes to the DR studio hang.
SD-3491	[Modbus]	Issues with report generation on event from Modbus PLC
SD-3495	[InduSoft DRV]	Generation on event based on tags from InduSoft real time driver doesn't work if DR project was started before Indusoft project
SD-3500	[Driver Manager UI]	Japanese and Chinese symbols are garbled in the Driver Manager dialog
SD-3503	[GENERAL]	Spelling mistake in the "Value Range Indicator" Object Configuration.
SD-3512	[Eurothem DRV]	Support of operator NOT LIKE in the definition the alarm filter of the Eurotherm Data Reviewer historical alarms/events driver
SD-3515	[STAT. FUNC]	Counter calculation in ADF should include the end of the period.
SD-3517	[Analytics DRV]	DR Logger does not log values on Absolute Time if data source is Data Model
SD-3519	[WEB]	In DRWeb portal, Step table and Item tables will plot in different sizes even if they have exactly the same formatting in every aspect
SD-3520	[INTOUCH ALG DRV]	AVEVA InTouch (historical alarms / events in ALG files) driver, Custom filters do not work
SD-3521	[CSV DRV]	Number of tags that can be imported from a single file is limited
SD-3522	[INTOUCH LGH DRV]	End time of the step is included in the calculation based on LGH driver data
SD-3523	[INTOUCH ALG DRV]	No data from ALG Alarms driver on particular OS.
SD-3524	[MX DRV]	ArchestrA embedded objects are not supported in hierarchical mode of MX Driver for more than 2 levels
SD-3526	[ALARMS]	Wrong calculation of the alarms duration when every alarm is counted once

Corrected Issues/SCRs (Dream Report Release 2020 R2)

#SCRs	Module	Description
SD-3409	Web User Management	When report is generated using an action button from a different web report, the User Management settings are ignored.
SD-3419	Comm. Drivers	WW Alarm DB Logger (historical alarms/events database) driver. Alarm records are not combined correctly.
SD-3423	General	Improved memory management when retrieving data from DR internal history
SD-3426	Comm. Drivers	Added new filtering option "QualityDetail" in AVEVA Historian Driver
SD-3429	Comm. Drivers	AVEVA InSight driver: Test connection returns "Basic authorization failed" error if password includes "\" symbol.
SD-3431	Comm. Drivers	WW Historian Driver: Duplicate tag names in Combo Box
SD-3432	Runtime	Generator crashes on start of the project, if tag for event-based generation comes from PLC that is disconnected
SD-3433	Web Interactive Chart	Option to set the precision on tooltips in Chart.
SD-3435	SPC Module	Dynamic objects from report aren't considered in calculation of correction factor in SPC configuration.
SD-3436	Web Portal	URL for report generation opens up a Welcome Page of DR Web
SD-3438	AVEVA Alarms Historian	In AVEVA Historian (alarms / events) driver, filters using the "Alarm_DurationMs" field does not work.
SD-3441	Comm. Driver	Fails to connect to a PLC through OPC-UA
SD-2824	Comm. Driver – OPC UA	Unable to connect to OPC UA Kepware server in encryption mode.
DEV-360	Web Portal	Web action button login and logout are not working
DEV-362	Web Portal	Support of placeholder %hostname% in text hyperlink object

Summary of the New Functionality and Enhancements for Dream Report Release 5.0 R20-3

(compared to the original version 5.0 R20-2)

	Module	Description
Other Enhancements		
	<i>Communication Drivers</i>	Added new communication driver for Rockwell Automation PLC's
	<i>Dashboards</i>	Special report for Dashboard calculations to be created without scheduler settings
	<i>Remote Connector</i>	Added support for writeback to the real time tags
	<i>Licensing</i>	Removed limitations for Eurotherm drivers from the license provided in archestra.lic, (not in Dream_Report_WW)!
	<i>Licensing</i>	Added Dashboards Option in DR for AVEVA License
	<i>Communication Drivers</i>	OPC DA - Added possibility to change Update Rate parameter from configuration dialog in OPC DA driver.

Corrected Issues/SCRs (Dream Report 5.0 R20-3)

#SCRs	Module	Description
SD-3212	<i>Communication Driver</i>	CSV Driver - Add ability to select tags and force them to be string tags
SD-3369	<i>SQL Table</i>	Link in SQL Table does not work if the text of hyperlink contains more than 16 characters
SD-3381	<i>Communication Driver</i>	Memory leaks issue in Wonderware Historian Alarm driver
SD-3382	<i>Communication Driver</i>	Wonderware Historian Alarm driver fix for alarm filters reset issue
SD-3396	<i>Remote Connector</i>	Added support for writeback to the real time tags
SD-3407	<i>Communication Driver</i>	FactoryTalk View SE Historical Values DB driver does not return result when it is used in a Step Table and there is no data in FT DB for the period of a table
DEV-360	<i>WEB</i>	"Time in UTC format" option is ignored in Batch Definition, defined in External DB
	<i>Designer Studio</i>	Bar Graph Undo/Redo issue
	<i>Dynamic Token</i>	Improved behavior of d# token

Summary of the New Functionality and Enhancements for Dream Report Release 5.0 R20-2

(compared to the original version 5.0 R20-1)

	Module	Description
New Features		
	<i>Preconfigured Object's Panel – Designer Studio</i>	New Panel with preconfigured object settings will allow user to select object with preconfigured settings.
	<i>User Management</i>	Added new options to manage enhanced access rights for the users in the Dream Report Dev. and in the Web
	<i>Web Portal</i>	New option that will allow operator to email generated report from the Web portal
	<i>Statistical Functions</i>	SPC Nelson rules violation statistical function
Other Enhancements		
	<i>Advanced Visualization</i>	AVC in Step and Free SQL tables supports values taken from other columns
	<i>Advanced Visualization</i>	Support of AVC in the Dynamic Web Chart set to interactive mode (create AVC info for DML)
	<i>Report Settings</i>	Added number of copies that will be sent to printer once report is generated
	<i>Communication Drivers</i>	Export/Import of driver definition instances to/from XML. This will allow user to transfer driver definition from one project to another.
	<i>Expression Object</i>	Use 0 as result in Item Field, Expression, Compound if the calculated result returned as NA
	<i>Chart Object</i>	Improved formatting of numbers on Y axis in chart without trailing zeros
	<i>Report Settings</i>	Added option for emailing of CSV and XML reports in email body
	<i>Web Elements</i>	"DateTime" pickers now uses project settings to show configured date time format and week start
	<i>Custom Script Objects</i>	Added two new Custom Script Objects: "SectorPie" and "SectorDoughnut"
	<i>Step Table</i>	Added option to configure step correction to manage step start and end times
	<i>Item Table</i>	Added decimal precision support to the Item Table object
	<i>Web Elements</i>	Added new "Reset Manual Input" option into configuration of Submit Action Button.
	<i>Designer Studio</i>	Implemented save/load custom units to/from INI file
	<i>Excel</i>	Improved stability of Export to Excel option
	<i>License Information</i>	Enhanced license information in Designer Studio to show license details even in case of an invalid license
Comm. Drivers updates		
	<i>PcVue Web Services</i>	Redundancy support in PcVue driver
	<i>OPC UA HDA</i>	Improved OPC UA HDA driver, support of certificates and user authentication
	<i>OPC UA DA</i>	Improved OPC UA DA (real-time) driver, support of certificates and user authentication

Corrected Issues/SCRs (Dream Report 5.0 R20-2)

#SCRs	Module	Description
SD-3338	<i>DR Studio</i>	DR Studio crashes upon creating Pivot Group based on Free Table
SD-3347	<i>Communication Driver</i>	SQC stopped working in Review HDA driver
SD-3348	<i>Communication Driver</i>	Locale is changed in DR project, when iFix driver is in use
SD-3332	<i>Communication Driver</i>	In Wonderware Historian driver, the "Filter out Quality 133" parameter does not work for statistical functions
SD-3366	<i>Draw Table</i>	Objects lose size when copying content of the Draw Table from empty cells into report working Area
SD-3363	<i>Communication Driver</i>	Test Connection to OSI Asset Framework fails when user name contains domain part domain\user
SD-3362	<i>Batch Definition</i>	"Time in UTC format" option is ignored in Batch Definition, defined in External DB
SD-3364	<i>Communication Driver</i>	A possibility to disable msec in IWS/InTouch Edge HMI External History Driver
SD-3352	<i>Communication Driver</i>	Rockwell RSView 32 driver (DBF). Error message when closing Communication Configuration Wizard, even if the test is OK
SD-3373	<i>Licensing</i>	Extra tags are added to the license count when retrieving BatchID defined in external DB
	<i>Dynamic Report Generator</i>	DRG does not bring the list of batch ids for batches that are based on "Batch time" definition when batch is defined on the item from a data model
	<i>Communication Driver</i>	Geo SCADA Expert historical events and alarms: timestamp of events and alarms does not correspond to local time (but corresponds to UTC)
	<i>e-Signature</i>	If user has no e-signature definition, he is still allowed to sign report. This has been restricted.

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
New Features		
	<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.
Minor Improvements		
	<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><Module Name="ConcurrentDev"> <Section Name = "Timeout"> <Param Name = "OperationTimeout" Value = "60"/> </Section> </Module></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
Comm. Drivers updates		
	<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
New Features		
	<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.
Minor Improvements		
	<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 rd 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>Scrip 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
Important Notes		
		Starting from product version 5.0 R19-3 the Database Archiving feature had been removed from the product
		Dynamic Dashboards version upgrade
Driver security updates		
	<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 RItem]	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

Hardware Recommended Requirements

For medium sized licenses of Dream Report (250, 1000, 5000) ODS recommends the following HW configuration:

- **CPU:** 4 Cores i7 CPU with Hyperthreading support.
- **RAM:** 16 GB of RAM. However, if user is planning to have above 5 Web clients in the license, Dashboard feature in active use and take advantage of product data logging, then 32 GB will be more appropriate fit.
- **HDD:** 1 TB SSD or above
- **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 8.1 Professional and Enterprise
- Windows 10
- Windows 10 for IoT
- Windows Server 2016
- Windows Server 2019
- Windows 11
- Windows Server 2022

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, 2017, 2019 and 2022 Express, Standard and Enterprise (using ODBC SQL Native Client 11)
- MS Access 2000, 2003, 2007, 2010, 2013, 2016, 2019
- MySQL 4.x and 5.x versions over ODBC driver 3.51, 5.1
- Oracle 11, 12 over Oracle XE ODBC driver

Validated Web Browsers Support for Web Portal

- 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 4.72 or higher should be installed before Dream Report® installation. Please note that for the successful installation of .NET 4.72, 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.

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