



OCEAN DATA SYSTEMS

The Art of Industrial Intelligence

Release Notes

Dream Report[®]

Version 4.82

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

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Summary of the New Functionality and Enhancements

(compared to the original version 4.81)

- **Enhanced Automatic Statistical Table (AST):**
 - Automatically add statistical functions of the last added item for the newly added item.
 - AST footer items now are accessible for using in expressions as tokens [footerAST#<TableName>:<ItemName>]
- **New Dynamic Token – [rf#<ReportName>.<ObjName>]**
- **Step Table**
 - Ability to use tokens in Step Table for the step definition (Tag Range and Tag Value Change mode)
 - Ability to S&R DA in Step Table step def.
- **Excel XLS Export UI: New file extension to select template file**
- **Web Portal raw data export with delimiter selection**

New Drivers and Enhancements

- **New ClearSCADA Drivers – historical values, historical messages and real-time values**
- **New OSI PI Asset Framework Driver with support of retrieval mode parameters**
- **Advanced ODBC Driver enhancements:**
 - New #AddressId# token for custom script queries.
 - New #SQC# token for custom script queries
 - Support of “milliseconds since 01/01/1970” date type
- **WW Online InSight Driver enhancements:**
 - Data Quality filtering option
 - Response Timeout option, to prevent dead-loop if server is not responding.
 - Improved memory management on the client side.

Brief Description of New Functions and Enhancements

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

Product Features

Enhanced Automatic Statistical Table

Dream Report 4.82 introduces two new enhancements for Automatic Statistical Table object (AST):

- Objects that are defined in the AST's footer now become available for access from an Expression object, enabling additional calculations and analysis in the report. In order to be able to perform use of AST Footer objects, a new dynamic token was introduced in DR 4.82: **[footerAST#<TableName>:<ItemName>].**

Note: In order to be able to get the access to footer's object, make sure to name the table (under the table's "Appearance" setting.

- When new tag(s) is added to the AST it will automatically inherit set of statistical functions defined in the last listed tag of AST.

New Dynamic Token

New dynamic token - **[rf#<ReportName>.<ObjName>]** has been added. This token enables the use of the calculation results of the object outside of the report where the object is defined, if its time period set as "Calculated Time Period."

Step Table

Now Step definition "Tag Range" and "Tag Value Change" modes support option to define [f#single-data-object], which provides option to set step range/criteria dynamically from the external single data object.

Excel Export

Added support to export the data into .xism Excel files, so user can use files where Excel macros are defined as an Excel file template.

Web Portal

Previously export to CSV from Web objects like Chart and Single Data object was done with hardcoded data delimiter ",". Now, a specific delimiter can be selected prior to data export.

Communication Driver Additions & Enhancements

ClearSCADA Drivers

New native communication drivers provide option to connect to ClearSCADA system getting live data, historical values, alarms and events.

OSI PI Asset Framework Driver

New OSI PI Asset Framework communication drivers provide option to retrieve information data and alarms from OSI PI Asset Framework database using native communication APIs. This provides logical tag browsing, and faster tag look-ups.

Advanced ODBC Driver

Several enhancements, and issues fixed, see list of SCRs below.

- New token **#AddressID#** was added to the driver to support customers' databases where tag names are located in one table and tag's data in another.
- New token **#SQC#** was added to the driver to supply SQL *WHERE* condition defined on the level of the object when Advanced ODBC driver is used, and additional filtering is required.

Example for tags browse:

Select longName, gateld #addressid# From VfiTagRef

Example for tags data:

Select VfiTagNumHistory.time #timestamp#, value#value# From VfiTagNumHistory Where VfiTagNumHistory.gateld = #addressid# AND #SQC# Order by VfiTagNumHistory.time

- Support of "milliseconds since 01/01/1970" date type

Wonderware Online InSight HDA Data Item

- Added Data Quality filtering option, to ensure the integrity of the data being reported on
- Added option for Response Timeout to prevent dead-loop if the online server is not responding.
- Improved memory management on the client side.

Corrected Issues/SCRs (compared to the previous version 4.81)

SCR#	Description
SD 3089	[DRV WWMX RT ITEM] Generator hangs upon start of the project, where the report is set be generated on event from the WW MX real-time values driver
SD 3087	[DRV Manual Data Entry] Submit timestamp from separate time pickers.
SD 3085	[DRV Adv. ODBC HDA ITEM] Average value can't be retrieved using Advanced ODBC driver.
SD 3084	[General] Enabling Conditional Display for the "Time picker", disables default value of the "Time picker"
SD 3082	[GENERATOR] Cannot generate PDF from HTML page
SD-3080	[WEB MANUAL] Step value belongs to 2 different steps of the Step Table, based on Web Manual Input driver.
SD-3078	[YOKOGAWA] Wrong time conversion in Yokogawa driver. GX-files treatment was improved.
SD-3077	[LICENSE] Free web client is not recognized by web portal", Allow 1 web client for all types of licenses
SD-3072	[Excel] "Excel report cannot be printed"
SD-3071	[OPC UA] Write result back option doesn't work with Siemens OPC UA.
SD-3070	"If Expression, containing other elements of the Footer was created before these elements - it is not possible to retrieve these elements value in the report."
SD-3069	[AST Table] Expression or compound object bring N/A if calculation based on objects from AST with calculated time period.
SD-3068	[Project Upgrade] "Fix for non-unique object id on project conversion (to generation 480)"
SD-3066	[GENERATOR] "An object getting a footer value from the Step Table, is not calculated in another report"
SD-3062	[MTA] Some statistical functions do not work based on Multi Tag Aggregation expression.
SD-3061	[OSI PI] Support of digital tags in OSI PI driver. Update.
SD-3060	[GENERATOR] "Cross reference between Step Table and Expression in the report"
SD-3059	[DR Studio] "Modifying a simple object name in the report causes the same modification of the column name in the Expression in the Step Table"
	Other Product Improvements
	[Mobile Portal] Fix for proper treatment of hyperlinks and levels.
	[WEB_PORTAL] Session counting proper treatment
	[General] After report generation in PDF the "Underline" font property does not work in the next objects: Item Table (Header, Columns), Step Table (Header, Columns, Footer), Alarm Table (Header, Columns), Pie Graph (Values, Percentage)
	[Bar Graph] Report Generation error, when in graphic object BAR GRAPH using function "Manual Entry" in Data Definition dialog window.
	[GENERATOR] Generation error occurs in web portal when in object Date and Time the time period definition is based on definition of non-existent batch
	[WW Historian Alarm] Moving the driver to SDK 2017 (support for Wonderware System Platform 2017) and few additional small improvements
	[Web Portal] "Incorrect font size in the header and columns of the Alarm Table on the Web Portal"
	[Web Portal] Fix for problem with localized report names in the Slide-Show when user tries to configure the Web Portal through <i>IISConfig</i>
	[DRV UHH SQL HDA ITEM] Takes UTC flag into account for time conversion
	[Report Settings] Check Box "Show report in the list" in "Report File Format" tab is disabled after report reselection even so that "Load Report in Runtime" is checked.
	[GENERATOR] Remove global variables that can cause issues during parallel generation
	[GENERATOR] Remove global objects used by fillers and finalizers to support multi-thread generation correctly

	[WEB] Fix to exception with null reference on session start.
	[OPC DA] Added unique group name for OPC client initialization when calling IOPCServer->AddGroup().
	[ADF] Fix for ADF function memory releasing, after last correction in DataServerHda for driver's result destruction.
	[DataServerHda, ADF] Support of drivers built on different platform.
	[Expression Obj.] Support for big strings in expression with small buffer optimization
	[WEB Mob.] Mobile portal login problem fix
	[BATCHMANAGER] Mask password in batch manager connection string to custom DSN
	[WEB_PORTAL] Time offset fix for RACO's DR project
	[GENERATOR] Log additional info about available memory
	[DRV INSQL HDA ITEM] Correct time clause for WW Historian <i>ValueState</i> retrieval mode
	[PROJECT VERSION CONVERTER] Print error details
	[WEB_PORTAL] Fix for the web report access from web portal when report generation is disabled.
	[OSI PI] Fixed retrieving digital values (statuses) from PI data-source.
	[REPORTGENERATOR] <i>TimeZoneCorrection</i> parameter. In case of 0 the timestamps in interactive web objects will not be corrected.
	[ODBC] Fix for problem of timestamps in <i>AnyDB</i> defined as "SEC FROM 01.01.1970".
	[Chart] New method of drawing a poly-line in a chart
	[Bar Graph] New realization of setting temporary design-mode data
	[UHHDataImporter] Added possibility for file sorting by name according UHH File name syntax.

System Requirements

Hardware Requirements

- **CPU:** Dual Core 2.4 GHz+
- **RAM:** 8 Gb+
- **HDD:** 1 Gb (for installation) minimum, 7200 rpm or higher (or SSD)
- **Video adapter:** Minimum memory 128 Mb
- **Network adapter:** No special requirements
- **Monitor resolution:** 1280x768

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 Professional and Enterprise (32-bit and 64-bit editions), incl. SP1 and SP1 R2
- Windows 8.1 Professional and Enterprise
- Windows 10
- Windows 10 for IoT
- Windows Server 2016

Databases Supported

- MS SQL Server 2005 Express; 2008 Express; 2012, 2014 and 2016 Express (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 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 10 and higher (IE 11 recommended)
- Chrome
- Mozilla Firefox
- Opera
- 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, user needs to install Adobe Acrobat or other PDF viewer (the latest versions are recommended). The Adobe Reader installer is located in \ODS\Dream Report\Utilities\
 - To use Web Portal, you have to install a web server (Internet Information Server or other) before Dream Report® installation. For additional information on configuring IIS for use with Dream Report, please refer to the Web Portal section
 - .NET Framework 3.5 and .NET Framework 4.61 or higher have to be installed before Dream Report® installation. Please note that for successful installation of .NET 4.61 user have to ensure that the latest updates are applied for the Operating System!

Demo Version Limitations

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

- 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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