

OpenText Gupta Team Developer

Release Notes

7.2.0

Product Released: 2019-09-10

Release Notes Revised: 2019-09-02

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1 Introduction

These Release Notes provide an overview of Team Developer 7.2.0, including new features, delivery information, and supported platforms. OpenText recommends that you read these Release Notes in conjunction with the documentation included with the software package. If any conflicts exist, the Release Notes supersede the other documentation.

We also recommend that you check OpenText My Support (<https://support.opentext.com>) for any patches or documentation updates that may have been posted after the initial release of this product.

1.1 Release Notes revision history

Revision date	Sections revised	Description of revisions
2019-07-08	First release.	All new content.
2019-07-22	Fixed Issues	Added additional fixed defects
2019-09-02	Fixed Issues	Added additional fixed defects

2 About Team Developer

This section provides an overview of Team Developer 7.2.0.

Team Developer 7.2 introduces enhancements and new features in many areas of the product. Code profiling allows to analyze code execution times to find application performance bottlenecks. A new wizard creates UDVs from a JSON response. Many new SAL-functions have been added for example string search and replace using regular expressions and a lot more.

2.1 New features

Team Developer 7.2.0 includes the following new features.

2.1.1 New IDE Features

- New Debugging tab added to application properties dialog. This tab allows users to specify debug command line arguments to be passed during debug sessions, as well as setting a specific working directory.
- New REST Import Wizard to easily create UDV class structures necessary to serialize/deserialize JSON data using SalJSON API. The wizard can fetch JSON from a URL, or a pasted JSON string. It will then generate an APL file containing the UDV class structure needed by the API.

2.1.2 New SAL APIs

- SalStrEncrypt/SalStrDecrypt added to easily encrypt/decrypt strings using AES encryption algorithm.

- SalTbIsWindowActivated – Returns whether the child windows on the specified tab page are already activated.
- SalTabAttachWindowAsChild – Assigns a child window created at runtime to the specified tab page as a child of the current tab container
- SalGridIsRowExcludedByFilter – Tests if a row has been excluded due to a filter applied by the user
- SalGridBackColorSet/Get & SalGridTextColorSet/Get – New functions for setting colors of the grid for various grid states
- SalJSONDeserializeUDVEx/SalJSONSerializeUDVEx – These new functions have array parameters to allow users to provide custom request header values and query parameters.
- SalRegexMatch/SalRegexSearch/SalRegexReplace/SalRegexReplaceAll – New regular expression functions for searching, replacing text. Team Developer uses the ECMAScript regular expression grammar as described here: <https://docs.microsoft.com/en-us/cpp/standard-library/regular-expressions-cpp?view=vs-2017>
- SqlConnectEx – New connection function that accepts database, user and password fields rather than using global variables such as SqlUser etc. This is useful for connecting to databases from a background thread, where use of globals can cause issues.
- SalStrCompressEx/SalStrUncompressEx – Compression functions that accept a Binary receive parameter to store the compressed data.
- SalTblSetTableFlags supports several new flags:
 - TBL_Flag_VirtualScroll, which is only valid against grid windows. When using this flag in combination with SalTblPopulate, the grid will use virtual scrolling to improve populate performance. Note that certain grid features like grouping/sorting etc. will be disabled with this mode turned on.
 - TBL_Flag_CtxMenuSortAlpha, when true will sort the columns in the column chooser context menu in alphabetical order instead of by column position.
- SalBinaryToString/SalStringToBinary supports two new flags, ENC_BIN (no code page conversion) and ENC_BASE64 (base64 encoding)

2.1.3 Runtime code profiling

- Applications can be profiled at runtime by turning on profile logging. This feature allows you to view call graphs and timing information related to application functions and message execution. Logs can be analyzed using a new Profile Viewer application. Profiling can be enabled using:
 - Environment Variable
 - TD_PROFILING_LEVEL: 1 or 2 can be specified
 - TD_PROFILING_FILE: file name for the log
 - Command line arguments:
 - --profilingLevel [1|2] --profilingFile <output file>
 - Sal API:
 - SalProfileStart(filename, profileLevel)
 - SalProfileSuspend()
 - SalProfileContinue()

- SalProfileStop()
- Level 1 profiling includes messages and internal functions. Level 2 includes Sal functions and externals.

2.1.4 New UX Features

- New Office 2016 theme. New constant THEME_Office2016_R2_Metro can be used with SalThemeSet (Win32 only).
- Windows Notifications – Ability to create native Windows notifications using new API functions and events. Notifications can be created in the system tray, or a balloon notification can be created.
 - SalNotifyAddIcon/SalNotifyUpdateIcon/SalNotifyDeleteIcon/SalNotifyShowBalloon
 - SAM_NotifyIcon – event raised when user clicks on notification

2.1.5 Miscellaneous New Features

- Preference setting under General tab has been added to force TD to use UTF-8 encoding instead of the default UTF-16. Some source control systems work better with UTF-8.
- The value of SqlPassword is now encrypted in memory, if reading the value back in SAL code or in the debugger, it will not be in plain text.
- Windows minidump: New options to generate minidump files if a crash occurs in a Win32 application. This can be turned on using –minidump command line option, or by setting an environment variable TD_MINIDUMP to 1, ON or YES. Once enabled, a minidump file will be created in the same directory as the application executable in the format <exe-name>-yyyyMMdd-HHmms.dmp. These dump files can be used by OpenText support to find the root cause of an application crash.

2.2 Discontinued and deprecated features

The following features have been discontinued in this release:

No discontinued features.

The following features have been deprecated in this release:

No deprecated features.

3 Packaging and documentation

Downloads and documentation for Team Developer are available on OpenText My Support (<https://support.opentext.com>).

3.1 Packaging and delivery information

The software and documentation for Team Developer includes:

- TDSetup-7.2.0-x86.exe (32bit Installation program)
- TDSetup-7.2.0-x64.exe (64bit IDE installation program)
- Deploy-7.2.0-x86.exe (32bit deployment installer)
- Deploy-7.2.0-x64.exe (64bit deployment installer)
- TDSamples-7.2.0-x86.exe (32bit samples installer)
- TDSamples-7.2.0-x64.exe (64bit samples installer)
- TD New and Changed Features.pdf
- TD Report Builder New and Changed Features.pdf
- TD Installation Guide.pdf
- TD .NET Projects.pdf
- TD API Reference Guide.pdf
- TD Calling .NET Assemblies.pdf
- TD Connecting SQLWindows Objects to Databases.pdf
- TD Developing with SQLWindows.pdf
- TD Dynamically Load XAML Resource Dictionary.pdf
- TD Guide to Writing Web Service Client Applications.pdf
- TD Introducing Team Developer.pdf
- TD Localizing and Customizing SQLWindows Applications.pdf
- TD Managing Teams and Objects with Team Object Manager.pdf
- TD Moving Dynamic Libraries to NET SAL Libraries.pdf
- TD Named Toolbar Extensions.pdf
- TD NET 64-bit Compilation Support.pdf
- TD New Controls Demonstration.pdf
- TD Progress Bar Alternative for cMeter.pdf
- TD Ribbon Menu.pdf
- TD Team Developer & Web Services.pdf
- TD Using & Extending QuickObjects.pdf
- TD Visual Toolchest Class Library.pdf
- TD Web Reporting Guide.pdf
- TD WPF Container & Controls.pdf
- TD Your First .NET-WPF Application.pdf

3.2 Related documentation

For additional information about Team Developer, or for supplemental information about related products, refer to the following documents, which are available on OpenText My Support (<https://support.opentext.com>).

- <https://knowledge.opentext.com/knowledge/cs.dll/Open/62171711>
- <https://knowledge.opentext.com/knowledge/cs.dll/Open/62171711>

4 Supported environments and compatibility

This section provides details about supported platforms, systems, and versions.

4.1 Supported systems

Processor	x64 Processor, 1.4GHZ or better
Memory	2GB or greater
Operating System	Windows 10, 8.1, 7 Windows Server 2019, 2016, 2012
.NET Framework	4.5+
Databases Win32	SQLBase 12.2, SQLBase 12.1, SQLBase 12.0, SQLBase 11.7, SQLBase 11.6 (using 11.7 drivers) Oracle 11g R2, 12c, 18c Microsoft SQL Server 2008, 2012, 2014, 2016, 2017 SAP ASE 16.0 (Sybase) Informix 10, 11, 12.1 (32 bit client) OLE DB (32 bit version) ODBC (32 bit version)
Databases Win64	SQLBase 12.2, 12.1, 12.0, 11.7, 11.6 (using 11.7 drivers) Oracle 11g R2, 12c, 18c Microsoft SQL Server 2008, 2012, 2014, 2016, 2017 SAP ASE 16.0 (Sybase) Informix 10, 11, 12.1 (64 bit client) OLE DB (64 bit version) ODBC (64 bit version)
Databases .NET	SQLBase 12.2, 12.1, 12.0, 11.7, 11.6 (using 11.7 drivers) Oracle 11g R2 (32 bit client) connecting to Oracle 10g or 11g Oracle 12c, 18c Microsoft SQL Server 2008, 2012, 2014, 2016, 2017

	SAP ASE 16.0 (Sybase) OLE DB (32 bit version) ODBC (32 bit version)
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4.2 OpenText product compatibility

The section provides details about which versions of other OpenText products are compatible with this release of Team Developer 7.2.0.

 **Note:** For the latest compatibility information for OpenText products, refer to the Compatibility Matrix (<https://knowledge.opentext.com/go/matrix>) on OpenText My Support.

Product name	Version	Notes
OpenText Gupta SQLBase	11.6, 11.7, 12.0, 12.1, 12.2	
OpenText Gupta Report Builder	7.2	
OpenText Gupta Q	1.0.1	

4.3 Language support

Team Developer is currently localized in the following languages. Additional languages may be available in future releases.

Component	Languages							
	EN	DE	JA	FR	IT	ZH	ES	RU
SQLWindows	B							
.NET Explorer/.NET Explorer (x64)	B							
Connectivity Administrator	B							
DBPipe Server Desktop	B							
Deployer 7.2	B							
Grid Migration Wizard 7.2	B							
Migration Wizard 7.2	B							
Object Nationalizer 7.2	B							
Quick Tabs Migration Wizard 7.2	B							
Report Builder 7.2	B							
Report Designer	B	UI	UI				UI	
Repository Setup Wizard 7.2	B							
SQLTalk Interactive SQL 7.2	B							
SQLTalk Plus 12.2								
Team Object Manager 7.2	B							
SQLBase Database Engine 12.2	B	UI						

SQLBase Command Center 12.2	B							
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UI = user interface only

B = both user interface and online help

5 Fixed issues

This section provides information about past issues that have been fixed in this release.

Issue number	Issue description
TD-21614	While debugging Auto variables list does not display the changed value of the last variable when stepping through intended code
TD-23879	Threads fail to launch if multiple forms from the same template are open
TD-23999	Child Objects don't get resize when TabBar is resized.
TD-24001	Painting Issue with Copy/Paste of Controls
TD-24014	Old documentation on TD About the SalStrFirstC function and the SalStrLop function
TD-24039	Sal Array array bound definition are not respected when compiling to .NET
TD-24146	Wrongly reported compilation errors after an application APL (TEXT outline) gets modified and the main application gets automatically refreshed
TD-24283	QuickTable properties cannot be modified once defined
TD-24297	Grid focus and activation issues compared to table windows in multiple scenarios
TD-24317	Misformed XAML compilation error when a the grid symbol name uses "Halfwidth Katakana" Japanese characters / "Fullwidth alphabet"
TD-24319	Ribbon bar menu shortcuts are not behaving as standard menu in multiple scenarios
TD-24326	Referenced objects leaking, crashing or failing to update when using functional class instance as window parameter in modal dialog in multiple scenarios
TD-24337	Insert Key event WM_KEYUP/ VK_INSERT no longer works in Grid
TD-24353	QuickTab page flickering when first time clicked even though SalSetPaintMode() is used
TD-24377	Closing a Top Level Window with a Grid with certain amount of rows/columns show bad performance making the application unresponsive to the user
TD-24410	SalTblSetTableFlags(grid1, TBL_Flag_VirtualScroll, TRUE) always returns FALSE (but it is functional)

TD-24457	Closing .NET application does not end debug session in 7.2
TD-24462	TMDTI72.EXE is aborted while it's starting up.
TD-24483	SalStringToBinary/SalBinaryToString with ENC_BIN should not do any code conversion.
TD-24504	Profiling Viewer does not load elapsed time for each operation correctly in non US region
TD-24518	String evaluation always evaluate to STRING_Null and actual value of the string in a specific scenario
TD-24523	Corrupted dynamically created Pan in Navbar when saving and restoring states of the Navbar using SalNavSaveState()/SalNavLoadState()
TD-24568	Browse All Classes not working correctly
TD-24569	Error - Assignment of Different Types
TD-24574	WPF - Nav Bar Displaying Controls Incorrectly
TD-24575	The focus should be on Child Grid instead it is on Top-Level grid
TD-24576	After selecting row 1 and col2 checkbox, while selecting any other row/column should trigger SAM_Validate message but it sometime does select row/column
TD-24578	TD crashes when using coding assistant > Parameter info
TD-24583	VisTblAutoSizeColumn function does not auto size text that is bold
TD-24584	SalListQuerySelection returns -1 if the selected entry in a combo cell is the empty string "
TD-24593	Scrollbar UI issue when using NavigationBar/Pane (TD 7.2.0 Beta)
TD-24601	Radio Button don't receive SAM_Click message when they are child of a TAB BAR page
TD-24604	SqlPLSQLCommand() error "PLS-00418: array bind type must match PL/SQL table row type ORA-06550"

TD-24605	No Menu Bar or Ribbon Bar For Dialog Boxes with "Accessories Enabled" = "Yes"
TD-24609	New SqlPassword encryption breaks functionality
TD-24622	Error "Object reference not set to an instance of an object" encountered when setting form window as child window only in TD7.1 .NET
TD-24629	Memory leak when using MSXML selectSingleNode (ActiveX)
TD-24641	WPF - Compiler did not identify clear error message Output
TD-24645	SalJSONDeserializeUDV returns nothing - no Error, no Results
TD-24647	SalShowBalloonNotify works with threads only in 'Thread Before Start' but not 'Thread Report Error' and 'Thread Finished'
TD-24654	Child grid encounters misalignment in sub totals
TD-24671	Data Field value is not clear after update through loop condition
TD-24680	Report Builder experiences crash when extracting NULL date
TD-24697	SalGridApplyState not working correctly with UNICODE text
TD-24708	SalJSONDeserializeUDV produces an "unknown error"
TD-24713	3d Face Color Data fields are flickering on SalInvalidateWindow
TD-24739	Very bad performance on simple select with 2000 rows of varchar(10) using SQLSERVER ODBC17 when Front End Result (FERS) SqlSetResultSet() is enabled

6 Contact information

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OpenText My Support: <https://support.opentext.com>

For more information, visit www.opentext.com

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