opentext™

OpenText Gupta Team Developer

Release Notes

7.3.0

Product Released: 2020-01-31

Release Notes Revised: 2020-01-17

Contents

1   Introduction

These Release Notes provide an overview of Team Developer 7.3.0, 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
2019-12-05	First release.	All new content.
2020-01-09	New features, new APIs section	Added new SalNotifyToast() functions
2020-01-17	SalMail documentation	Updated SalMail feature documentation

2   About Team Developer

This section provides an overview of Team Developer 7.3.0.

Team Developer 7.3 provides four highlight areas: First responsive layout for a great experience with HD and UHD displays. Second much enhanced code profiling. Third an updated SalMail API for higher security and fourth many new APIs that make live for developers and users easier.

2.1   New features

Team Developer 7.3.0 includes the following new features.

2.1.1   Responsive Layout

- New control anchoring for windows
  - Window containers
    - Enable/disable anchoring with minimum size
    - Define minimum width
    - Define minimum height
  - Controls
    - Vertical anchor

- Top: control will remain anchored to top
- Bottom: control will remain anchored to bottom
- Both: control will resize vertically to allow for more/less content to show
- Horizontal anchor
  - Left: control will remain anchored left
  - Right: control will remain anchored right
  - Both: control will resize horizontally

2.1.2   Enhanced Code Profiling

- Tabbed grid view having a details tab and a summary tab.
  - Good for hit counts, summary execution times
  - Sortable columns by execution time, hit count, etc.
  - Per column filter

- Annotations, writes an annotation into the code profile

  - SalProfileAnnotate(sAnnotation)

- Tags, have a start and end point, add up time between start and end point

  - nTag = SalProfileTagEnter(sTagText)

  - SalProfileTagLeave(nTag, sTagText)

2.1.3   Modernized SalMail API

- Replace implementation based on Microsoft SmtpClient to use MailKit, which supports modern security and authentication schemes.
- Each provider has different implementations on how it handles OAuth2, to support this a plugin interface has been implemented. The OAuth2Sample installation folder has an example of how to implement such a plugin. The plugin can be registered using the following API:
  - Call Client.SetPlugin("C:\\Program Files (x86)\\Gupta\\Team Developer 7.3\\OAuth2Sample\\bin\\Release\\OAuth2Sample.dll")
  - SetClientSecrets – new function for authenticating to Gmail using OAuth
    - Obtain client ID/Secret from Google API console.

2.1.4   New IDE Features

- Overloaded functions will be shown in the Active Coding Assistant (ACA) tooltip and quickinfo.
- When opening text outlines from TD 7.0, 7.1 or 7.2 with TD 7.3, the user will be prompted for conversion unless the value of Settings/AutoConvert in the registry is non-zero.
- Tools menu debug window options now combined in a sub-menu.

2.1.5   New APIs

- New function to write to the debug console:
  - SalTraceDebug(EVENT_*, sMessage, bClearExisting)
    - EVENT_Information
    - EVENT_Warning
    - EVENT_Error
- New function to create hash values for strings to encrypt without storing the encrypted value:
  - SalStrHash(sHash, HASH_*)

    HASH_MD5
    HASH_SHA1
    HASH_SHA256
    HASH_SHA384
    HASH_SHA512
- New CDK function to enable/disable UTF8 outline read/save:
  - CdkSetUTF8Option()
- New function to get/set autohide status of docked dialogs:
  - SalDlgGetAutoHideStatus(hDlg, bIsPinned, bIsVisible)
  - SalDlgSetAutoHideStatus(hDlg, bIsPinned, bIsVisible)
- New function for XML serialize/deserialize for strings (not files)
  - SalXmlSerializeUDVToString(sUDV, sStringVar, nWriteStyle)
  - SalXmlDeserializeUDVFromString(sUDV, sStringVar)
- New functions to save/load state of navigation bar to receive params:
  - SalNavSaveStateEx(hWndBar, nItemSelected, nItemExpandedCount, hItemsOrder, hItemsProperties, nPageNavVersion)
  - SalNavLoadStateEx(hWndBar, nItemSelected, nItemExpandedCount, hItemsOrder, hItemsProperties, nPageNavVersion)
- SalNetCompileAndEvaluate: Call Sal functions at runtime with .NET applications
  - SalNetCompileAndEvaluate(sExpression, nError, nErrorPos, nRtn, sRtn, dtRtn, bInhibitErrors, sContext)
- Create child window with menu enabled (Mimicks pre 5.2 bug)
  - SalCreateWindowEx(hWndToCreate, hWndParent, nLeft, nTop, nWidth, nHeight, CREATE_AsChild | CREATE_ChildWithMenu)
- Rich text control, query if editable, set editable
  - Use existing functions SalQueryFieldEdit()/SalSetFieldEdit()

- Keyup and keydown for VisWinLoadAccelerator() defined by parameter flags. Allows constant KDS_KeyDownMask flag to be OR'd with nKeyDownState argument, changes behavior to trigger on keydown instead of default keyup.

- New SalNotify API for Windows 10 toast message notifications

- **Initiate toast message environment**

  bOk = SalNotifyInitToast(hWnd, sAppName, sAppID, bCreate)

  Parameters

  > hWnd - Window Handle. The handle (or name) of the form receiving message from Toast Notification.

  > sAppName - String. Application name to be created as start menu.

  > sAppID - String. System.AppUserModel.ID custom property assigned to start menu.

  > bCreate - Boolean. TRUE for creating start menu.

  Return Value:

  > bOk is TRUE if the function succeeds and FALSE if it fails.

- **Trigger toast message**

  nId = SalNotifyShowToast(sIconPath, arText, arActions)

  Display toast notification with given image, text and actions. This function returns identification number assigned to each notification. SAM_NotifyToast event is raised when end user click on Toast Notification with id (wParam) and 1 based index of action (IParam).

  Parameters

  > sIconPath - String. The path to image or icon file to be shown in Toast Notification.

  > arTexts - String. An array of text showing in Toast Notification. You can specify up to 3 elements.

  > arActions - String. An array of actions showing in Toast Notification. You can specify up to 5 elements.

  Return Value:

  > Identifier number of Toast Notification.

2.1.6   Miscellaneous features

- Support QuickObject for Grid control

- Notification icons created with SAL notify API will be removed on application close

- Updated demodll sample to C++, make x64 compatible

2.2 Discontinued and deprecated features

The following features have been discontinued in this release:

- Support for Windows 7 has been removed. Microsoft has ended support for Windows 7 in mid-January 2020.
- Team Object Manager (TOM) support for third-party databases is discontinued.

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-7.3.0-x86.exe (32bit Installation program)
- TDSetup-7.3.0-x64.exe (64bit IDE installation program)
- Deploy-7.3.0-x86.exe (32bit deployment installer)
- Deploy-7.3.0-x64.exe (64bit deployment installer)
- TDSamples-7.3.0-x86.exe (32bit samples installer)
- TDSamples-7.3.0-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

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 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, 19c
	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, 19c
	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, 19c
	Microsoft SQL Server 2008, 2012, 2014, 2016, 2017
	SAP ASE 16.0 (Sybase)
	OLE DB (32 bit version)
	ODBC (32 bit version)
Team Object Manager (TOM)	TOM supports SQLBase databases only.
	SQLBase 12.2, 12.1, 12.0, 11.7, 11.6 (using 11.7 drivers)

4.2 OpenText product compatibility

The section provides details about which versions of other OpenText products are compatible with this release of Team Developer 7.3.0.

Product name	Version	Notes
OpenText Gupta SQLBase	11.6, 11.7, 12.0, 12.1, 12.2	
OpenText Gupta Report Builder	7.3	
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 7.3	B							
Grid Migration Wizard 7.3	B							
Migration Wizard 7.3	B							
Object Nationalizer 7.3	B							
Quick Tabs Migration Wizard 7.3	B							
Report Builder 7.3	B							
Report Designer	B	UI	UI				UI	
Repository Setup Wizard 7.3	B							
SQLTalk Interactive SQL 7.3	B							
SQLTalk Plus 12.2								

Team Object Manager 7.3	B							
SQLBase Database Engine 12.2	B	UI						
SQLBase Command Center 12.2	B							

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-23902	TD .NET SalCompileAndEvaluate() only supports call to user defined functions and not SAL function
TD-24092	No context menu to 'Properties' on menu items
TD-24366	Implement Set and Get for margin and orientation properties at runtime for TABBAR
TD-24463	Type_ActiveX exist in the Active Coding Assistant (ACA) and is a possible return for a call to SalGetType() function but it is not documented
TD-24522	Support of the Date Picker and Date Time Picker in the VisWinGetText
TD-24555	ACA should list all overloaded functions
TD-24618	Runtime profiling: request for functions to add custom profile points
TD-24712	Implement a new message such as SAM_ColHeaderClick for Grid and Table Window to determinate programmatically what column header a user clicked
TD-24729	Implement Quick Object for Grid
TD-24806	Request to add function SalStrHash using a standard like SHA-2
TD-24812	SalListQuerySelection(Table Column) returns the content of the previous row if no entry is selected
TD-24813	Hidden Grid Window in a splitter container get un-hidden when the user moves the splitter
TD-24814	Text written outside the data field when text size is larger than data field size and its background is set to '3D Face Color'
TD-24816	Window menu missing after after upgrade to TD7.1 - Add CREATE_ChildWithMenu flag
TD-24824	MSXML4 components stop working correctly and throws runtime error

TD-24839	Data Field foreground color not updated when calling SalColorSet() and the data field background color is set to "3D Face Color"
TD-24841	Search result inconsistency in search results comparing "Find and Replace" Vs "Find all" feature in specific search instances
TD-24842	Menu status text showing as a tooltip instead of the defined tooltip text only when bMenuBarAsRibbonBar = TRUE
TD-24849	Issue with child windows while resizing the parent dialog
TD-24857	Request to add clean up code to delete Notification Icon automatically when the when application is rerun
TD-24858	Unable to change background and foreground color of certain object when using outline Global Declaration/Windows Default
TD-24860	When opening a 7.1 apt in 7.2, AX APLs are not asked to be converted
TD-24863	Child window contained in a splitter get hidden when moving splitter to the left in an application containing 3 vertical splitters
TD-24864	Repainting issues in split windows when moving/resizing splitters
TD-24872	Allow accelerators set by VisWinLoadAccelerator() to be triggered on a Key Down message
TD-24881	SalSetTooltip does not work with listbox
TD-24883	401 error "Unable to connect to Database" when using Sqldon() and SqlIniex() in a specific setup
TD-24885	Data Field '3D Face Color' UI issues when scrolling text with the keyboard
TD-24890	Warning message when compiling GailBase.apl
TD-24891	In TD7.2 Help, the constant "THEME_Office2016_R2_Metro" is not documented in the help file
TD-24896	Problem using SqlConnect() to non existing databases

TD-24906	SQL Server Error 909 when updating NVARCHAR columns using 'N' literal
TD-24919	Storing Number that is more than 16-digits long translates the value to scientific notation
TD-24922	Data Field '3D Face Color' UI Flickering issues while text scrolling with the keyboard
TD-24923	WPF - Error "method not found" occurs when calling cloneNode method
TD-24924	Repainting a window inside a grid produces a problem
TD-24927	Class variables value change depending on where in code you are and also depending, if dialog has a local variable or not
TD-24935	ProfilingViewer does not accept *.txt file as trace file for command line option
TD-24942	.NET SalJSONSerializeUDV() exception when serializing an UDV with an instance of another UDV array containing Date/Time field fields being null
TD-24944	64 bit TD sample installer does not install 7.3 samples.
TD-24945	Maximized MDI child does not honor minimum anchoring size
TD-24947	Issue with dynamic columns and SalTblPopulate in .Net
TD-24949	Ribbon Bar popup menu disabled when bMenuBarAsRibbonBar=TRUE in a specific scenario
TD-24952	Object Nationalizer - Critical Error
TD-24954	MigrationWizard.exe fails to start on x64 install of TD 7.3
TD-24956	SalReportView Displaying differently in Windows 10
TD-24957	Grid summary bar position is wrong when grid is resized smaller.
TD-24958	SalJSONDeserializeUDV does not return error message from HTTP Exception
TD-24969	SalGridPrintPreview not displaying correctly in Windows 10
TD-24970	SalReportPrintToFile format to PDF is slightly off in Windows 10
TD-24984	While trying to run the Sample application Win32DemoApp.app, it errors out

6   Contact information

OpenText Corporation
275 Frank Tompa Drive
Waterloo, Ontario
Canada, N2L 0A1

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

For more information, visit www.opentext.com