

# OpenText Gupta Team Developer

## **Release Notes**

7.1

Product Released: 2018-05-29

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# 1 Introduction

These Release Notes provide an overview of Team Developer 7.1, 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 |
|---------------|------------------|--------------------------|
| 2018-05-07    | First release.   | All new content.         |

# 2 About Team Developer

This section provides an overview of Team Developer 7.1.

Team Developer 7.1 adds many new features to the popular software development tool. New features are mostly in three areas: Application multithreading, source code management and custom themes.

## 2.1 New features

Team Developer 7.1 includes the following new features.

## 2.2 Background Threads

- Window outline includes a new Background Threads node where instances of BackgroundWorker classes can be defined. Background workers allow for tasks to be run on background threads without blocking the GUI. They also provide easy to use events that allow you to monitor the progress of the worker on the GUI thread.
- The following SAL functions have been added to support interacting with background workers:
  - SalBackgroundWorkerStart – Start a background worker instance
  - SalBackgroundWorkerCancel – Cancel a background worker instance
  - SalBackgroundWorkerIsCanceled – Check cancel status from the worker instance
  - SalBackgroundWorkerIsBusy – Check if worker is running
  - SalBackgroundWorkerReportProgress – Send progress information to GUI event handler
  - SalBackgroundWorkerAnyRunning – Check if any workers are running for a particular window or application wide.
  - Added a new Debug windows “Threads”. This window can be used to monitor and interact with background workers during a debug session.

## 2.3 Win32 support for WPF Controls

- Win32 applications can now use the WPF Custom control and the associated SalWPF\* API functions that previously were limited to .NET build targets only.
- The layout pane has been improved to render WPF Custom controls based on the XAML property.

## 2.4 UI Skinning

- Win32 builds now have support for ProfUI skinning, which gives developers the ability to create XML files that can define a custom L&F for their applications.
- The skin XML file can be specified in the Build Settings dialog by setting the Skin Theme XML setting. This can also be set dynamically at runtime by first calling the new function SalThemeSetXMLPathName to set the filename, then passing THEME\_Skin to SalThemeSet.
- The skin for the IDE can be customized as well under Tools->Preferences->Presentation.

## 2.5 IDE

- A new source control pane (available under Tools->Source Control) has been added to enable checkout/commit/updates from SVN or GIT directly from the IDE.
- Window panes now have a Functions tab for quickly accessing the functions defined on the Form/Dialog etc.
- The outline toolbar now has navigate back and forward buttons that allow you to revisit previous positions in the outline.
- ACA tooltip and Quick Info popups have been improved to show inline comments added to function parameters and return statements.
- Improved "Assign to Tab Page" UI to make it easier to assign a control to multiple tab pages.
- Debug->Playback and Playback Rewind functionality has been removed.

## 2.6 SAL API

- SalTabAddPageEx and SalTabSetPageIcon now accept resource names as the filename argument. If the filename does not exist, an attempt will be made to load the image based on resource name.
- SalSetTooltipImage – New function for setting image based tooltips on windows
- SalCenterWindowEx – New function to center both resizable and non-resizable windows at the same position and size.
- SalRibbonSetItemFieldWidth/SalRibbonGetItemFieldWidth – New functions for setting/getting data field/combo box width on ribbon items.
- SalPicSet/SalPicSetFile can now be passed hWndMDI to set the background image for an MDI frame window. SalPicSetFit can also be used to set the scale and fit of the background image.
- A new SAM message SAM\_DateColumnSum is supported on grid columns. This allows for custom date totals. Use with new functions SalGridColumnSummaryDateValues and SalDateReturn.

## 2.7 Reporting

- Watermarks now support an “On Top” option to control if the watermark is rendered behind or on top of text/pictures in the report output. Transparency color can also be specified (default is white) using a color chooser.

## 2.8 Miscellaneous

- This version of Team Developer is built with Visual Studio 2017.
- Installer now includes option to install PDB's for TD assemblies, making it easier to debug crashes.
- Metro theme on Windows 10 now lets the OS draw the window frame, which allows for a more native L&F.
- The Field Chooser context menu item has been removed from the grid control.
- Tab bar styles and theme combinations that inherit the default background color of the form for the header area will now inherit non-default background color as well.
- Add support for Sybase specific sql.ini setting EncryptPassword to control how passwords are sent to the database.
- Update Informix client to 4.1 and added support for 64bit version.
- Several global variables and functions have been moved to GAILBase.apl from the generated .NET Explorer wrapper APL. This will require you to re-import .NET dlls so that the wrapper is regenerated.

## 2.9 Discontinued and deprecated features

The following features have been discontinued in this release:

- Debug->Playback and Playback Rewind functionality has been removed.

## 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.exe (Installation program)
- TDSetup64.exe (64bit IDE installation program)
- OpenText Gupta Team Developer 7.0 Beta Release Notes.pdf
- 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 Server 2016<br><br>Windows 10<br><br>Windows 8.1 (32bit and 64bit)<br><br>Windows Server 2012 (64bit)<br><br>Windows 7 (32bit and 64bit) |

|                 |   |
|-----------------|---|
|                 | Windows Server 2008 (64bit)   |
| .NET Framework  | 4.5+  |
| Databases Win32 | <p>SQLBase 12.1, SQLBase 12.0, SQLBase 11.7, SQLBase 11.6<br/>(using 11.7 drivers)</p> <p>Oracle 11g R2</p> <p>Oracle 12c</p> <p>Microsoft SQL Server 2008, 2012, 2014, 2016</p> <p>SAP ASE 16.0 (Sybase)</p> <p>Informix 10, Informix 11 (32 bit client)</p> <p>OLE DB (32 bit version)</p> <p>ODBC (32 bit version)</p> |
| Databases Win64 | <p>SQLBase 12.1, SQLBase 12.0, SQLBase 11.7, SQLBase 11.6<br/>(using 11.7 drivers)</p> <p>Oracle 11g R2</p> <p>Oracle 12c</p> <p>Microsoft SQL Server 2008, 2012, 2014, 2016</p> <p>SAP ASE 16.0 (Sybase)</p> <p>Informix 10, Informix 11 (64 bit client)</p> <p>OLE DB (64 bit version)</p> <p>ODBC (64 bit version)</p> |
| Databases .NET  | <p>SQLBase 12.1, SQLBase 12.0, SQLBase 11.7, SQLBase 11.6<br/>(using 11.7 drivers)</p> <p>Oracle 11g R2 (32 bit client) connecting to Oracle 10g or 11g</p> <p>Oracle 12c</p> <p>Microsoft SQL Server 2008, 2012, 2014, 2016</p> <p>SAP ASE 16.0 (Sybase)</p> <p>OLE DB (32 bit version)</p>                              |

|  |                       |
|--|-----------------------|
|  | ODBC (32 bit version) |
|--|-----------------------|

## 4.2 OpenText product compatibility

The section provides details about which versions of other OpenText products are compatible with this release of Team Developer 7.1.

 **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,<br>12.0, 12.1 |       |
| OpenText Gupta Report Builder | 7.0                       |       |
| 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 7.1                      | B         |    |    |    |    |    |    |    |
| Grid Migration Wizard 7.1         | B         |    |    |    |    |    |    |    |
| Migration Wizard 7.1              | B         |    |    |    |    |    |    |    |
| Object Nationalizer 7.1           | B         |    |    |    |    |    |    |    |
| Quick Tabs Migration Wizard 7.1   | B         |    |    |    |    |    |    |    |
| Report Builder 7.1                | B         |    |    |    |    |    |    |    |
| Report Designer                   | B         | UI | UI |    |    |    | UI |    |
| Repository Setup Wizard 7.1       | B         |    |    |    |    |    |    |    |
| SQLTalk Interactive SQL 7.1       | B         |    |    |    |    |    |    |    |
| Team Object Manager 7.1           | B         |    |    |    |    |    |    |    |
| SQLBase Database Engine           | B         | UI |    |    |    |    |    |    |
| SQLBase Command Center            | B         |    |    |    |    |    |    |    |

UI = user interface only

B = both user interface and online help

## **5 Installation and upgrade notes**

This section provides additional installation and upgrade information, including related or third-party product information and any required critical patches.

### **5.1 Installation notes**

Before you install Team Developer, review these additional installation notes and verify related product or third-party product requirements.

### **5.2 Upgrade notes**

Before you upgrade, review these instructions.

- When upgrading from older Team Developer versions it is strongly recommended that you save all existing source code in text format.

## **6 Fixed issues**

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

| <b>Issue number</b> | <b>Issue description</b>  |
|---------------------|---|
| TD-18238            | Customer would like to see a better handling of IDE error messages  |
| TD-20238            | Quicktab form with grid set to SummaryBarEnable attribute shows summary bar on incorrect tabs                                 |
| TD-20527            | Table window Drop Down List : cannot select item via keyboard when the list contains only one item. This is fine with GRID    |
| TD-20673            | Design Time variable issue  |
| TD-20688            | Problem showing Active Title in Windows menu when & is part of the title  |
| TD-20725            | WM_SYSCOMMAND not triggered in MDI Forms  |
| TD-20743            | Named toolbars loose buttons when menu exists in MDI parent   |
| TD-20755            | Calling VisTblAutoSizeColumn when the table has TBL_Flag_SingleSelection set selects a row unnecessarily                      |
| TD-20758            | Newly added function does not show up in the ACA immediately  |
| TD-20768            | Using SalTblDefineRowHeader stops resizing capability of table window   |
| TD-20867            | It is not possible to re-set the colour of a cell after setting the colour of the row using VisTblSetRowColorEx               |
| TD-20887            | When SalListSetSelect is used to select an item in a grid drop down column, when tabbing it selects the next item in the list |
| TD-20995            | Unable to retrieve long character fields using Sybase when there are subsequent selects within same stored procedure          |
| TD-21010            | VTM_LeftDoubleClick issue in specific scenario  |
| TD-21034            | Outline line update / context not showing in specific scenario  |
| TD-21188            | Active coding assistant does not display variables and functions immediately after they are added                             |
| TD-21233            | Search again fails if you comment more than one line of code  |

|          |  |
|----------|--|
| TD-21268 | Expanded array in Watch window gets destroyed when freed                                     |
| TD-21292 | Debugger does not move to the error line when clicked on the error                           |
| TD-21318 | Add Help documentation for new function SalReportSetRichTextVar                              |
| TD-21471 | Picture box contained in a group box doesn't allow dropping                                  |
| TD-21492 | A Find All dialog doesn't find strings with spaces embedded                                  |
| TD-21524 | When using AutoWatch Window, IF statement expressions evaluation doesn't stop when it should |
| TD-21665 | Report Builder should have Save All option   |
| TD-21696 | .NET debugger System.IndexOutOfRangeException evaluating array with index as constants       |
| TD-21731 | Incorrect "targetNamespace" attribute name in Web-Service                                    |
| TD-21791 | SQLSERVER OLEDB: SalTblPopulate with varchar(max) datatype fetch wrong data                  |
| TD-21861 | SalMessageBox NOT modal in a specific scenario   |
| TD-21878 | Web Service does not generate all classes  |
| TD-22119 | TD XML XMLLIB Node.nodeValue( ) returns arbitrary value from empty tag.                      |
| TD-22323 | SalGridWriteState() does not save sub totals alignment                                       |
| TD-22345 | SalGridSetSummaryColumnJustify only affects the total and not subtotal lines                 |
| TD-22431 | Date Time Picker doesn't show week-numbers when the value is emptied                         |
| TD-22433 | Parser picks up single-quote to start highlighting red in a comment                          |
| TD-22435 | The background under shaped window is not redrawn  |
| TD-22439 | New SalRibbon functions not in the online help - one is wrong in API Guide                   |
| TD-22443 | Combo box value cleared on message box pop-up if accelerator key used                        |

|          |  |
|----------|--|
| TD-22541 | TD OLEDB SLQBASE empty error message when max session reached  |
| TD-22542 | APD with Form Grid window causes an error if called from main MDI APT  |
| TD-22543 | Syntax highlighter: selection and home/end keys  |
| TD-22557 | .NET class variable reference in SQL not working   |
| TD-22567 | Unable to select a background text inside a frame  |
| TD-22572 | IDE Layout window child control in MDI toolbar can't be moved/resized using keyboard   |
| TD-22613 | SalGridSetAltRowBackColors() browsing performance issue  |
| TD-22614 | Focus not returning to app   |
| TD-22648 | Sal(S/G)etWindowSize   |
| TD-22673 | Cannot compare directly "MyValue" under Date Picker Class with date/time data type on .NET   |
| TD-22680 | MDI Toolbar defect   |
| TD-22683 | SalReportPrintToFileEx() no error returned when trying to generate a PDF on a path not owned by the user that launched the process |
| TD-22758 | Connectivity Administrator modifies the SQL.INI wrong for Oracle   |
| TD-22831 | There is no SalRibbon function to be used at runtime for sizing dynamically created objects...                                     |
| TD-22832 | SqlConnection & mixed case password issue  |
| TD-22867 | Implement no border style for toolbar in forms as it is currently done for dialog box  |
| TD-22988 | Dropping Picture in pane causes painting issues  |
| TD-22997 | TD tree view named menu/Window Menu does not have a property context menu that would open the attribute inspector                  |

|          |   |
|----------|---|
| TD-23025 | GRID DateTime Picker does not support "MMM d, yyyy hhhh:mm" format unlike standard grid cell type does          |
| TD-23026 | TABBAR painting and re-position of child objects when moving TABBAR issues                                      |
| TD-23027 | SalSetDefButton() / SalGetDefButton() issue in TABBAR   |
| TD-23041 | TD not honoring OS "Underline keyboard shortcuts and access keys" setting                                       |
| TD-23046 | "GoTo library item" navigates a wrong APL outline place in specific scenario                                    |
| TD-23075 | FALSE positive runtime check of External References => "HWND qualifier does not reference mentioned class name" |
| TD-23084 | SAM_KillFocus fired multiple times wrongly in a specific scenario   |
| TD-23095 | TD .NET splitter not honoring orientation property and location of child window                                 |
| TD-23103 | Metro theme with 3D Face Color background isn't transparent   |
| TD-23106 | Focus and activation due to SalMessageBox() in specific scenario  |
| TD-23127 | Edit custom XAML always opens default.xaml (BLANK) and not the current modified one                             |
| TD-23129 | Design changes in border thickness in forms and dialogs IDE layout and runtime                                  |
| TD-23156 | OdrPrepareProc() Incorrect highlighted SQL code line in case of SP error  |
| TD-23173 | 09267 GCI IDL Invalid COM DLL ambiguous error since TD 6.3  |
| TD-23174 | SalRTFDocumentPrint() to physical printers margin issue ( printout partially truncated)                         |
| TD-23178 | Add support for transparent color with EMF images   |
| TD-23223 | Gptconfig browse button to look for a SQL.INI does not work   |
| TD-23249 | Grid with Dropdown List   |
| TD-23260 | VisWinClearAllFields() not clearing fields of TABBAR container  |
| TD-23262 | IDE TABBAR (object selection) wrong label in specific scenario  |

|          |   |
|----------|---|
| TD-23269 | Unable to resize Line object vertically   |
| TD-23270 | IDE/Layout design: Unable to move Background text in specific scenario                    |
| TD-23276 | Totals and subtotals for grouped time columns   |
| TD-23292 | SalSetLanguageID() to override system local has no effect on SalFmtFormatDateTime()       |
| TD-23295 | SalTblSortRows() not working on long string columns                                       |
| TD-23296 | SalColorSet() unable to change the TABBAR bar color                                       |
| TD-23332 | 'Chinese characters' returned from a SQLBase stored procedure                             |
| TD-23339 | TabBar: data fields show mouse cursor flicker and wrong shape                             |
| TD-23363 | TabBar font change shows incorrect behavior   |
| TD-23383 | When disabling a form in an MDI, the form is sent behind other open forms                 |
| TD-23387 | Frame lines painted differently from TD2005   |
| TD-23388 | DateTimePicker Format YY does not Work  |
| TD-23396 | Dialog Box created as child of form not destroyed after SalBringWindowToTop               |
| TD-23399 | The width of a TabBar class form changes incorrectly                                      |
| TD-23400 | SalUncompress fails on large buffers  |
| TD-23403 | Ability to update Grid total summary when COL_AllowTextFilter is enabled                  |
| TD-23427 | SMTPConnect does not do anything  |
| TD-23442 | Frame with height less than 0.19" are not visible in TD.NET                               |
| TD-23454 | Change order of list display in Grid  |
| TD-23508 | TabBar - Tab Page shortcut not functional when the TabBar control does not have the focus |

|          |  |
|----------|--|
| TD-23514 | Unable to set connection string property SetZeroLengthStringsToNull when using native router connection without SQL.INI            |
| TD-23521 | Surrogate pairs being counted as one character   |
| TD-23531 | SQLSERVER AND SYBASE \Samples\Connectivity\ not functional   |
| TD-23646 | Compile failure when chained function calls include "new classA" as a parameter  |
| TD-23653 | Grid general performance issue when using aggregated groups  |
| TD-23655 | SalFieldSetSelect( ) does not set cursor on Grid's multiline text field  |
| TD-23680 | Returning VALIDATE_Cancel from a SAM_RowValidate message behaves differently when using a Grid versus a Table Window               |
| TD-23699 | With Metro theme, it's hard to distinguish which is the active window  |
| TD-23704 | Grid "Field Chooser" context menu shows hidden columns when COL_HideInContextMenu flag is used                                     |
| TD-23750 | Allow Sybase native router to support password encryption using via Sybase's CS_SEC_ENCRYPTION connection property                 |
| TD-23829 | Runtime error "Assignment of different types" not caught at compilation time when using function overloading in multiple scenarios |
| TD-23843 | SalMessageBox() always in English when using SalSetLanguageID() SUBLANG_DUTCH_BELGIAN = 0x0813                                     |
| TD-23862 | WMF pictures are incorrectly rendered in TD and Report builder picture object  |
| TD-23864 | Type-Ahead (autofill) does not work in a colour ( Visual Toolchest ) ComboBox .  |
| TD-23866 | After a call to SalJSONSerializeUDV()/SalJSONDeserializeUDV() the value of the STRING_Null constant is altered                     |
| TD-23914 | Date and Time Data Field cannot be edited when the Regional setting is to Spanish(Mexico)  |
| TD-23944 | Exact same code doing a search replace using Word Automation fails in .NET but functions as expected in WIN32                      |



|          |  |
|----------|--|
| TD-23948 | SalDateYear function does not return a year > 1901 with .Net   |
| TD-23977 | No SQL error returned from SQL Server back-end when the default language is German                                       |
| TD-24025 | Database name corruption after an SQL ERROR when using SqlGetParameterAll() with SQLPDBN constant ( 2001 ) on SQL Server |

## 7 Contact information

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

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