

TEAM DEVELOPER™

New & Changed Features

Product Version 7.3.4

Team Developer™: New & Changed Features

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Table of Contents

TEAM DEVELOPER 7.3.4	4
SAL API	4
UI	4
NATIVE ROUTER	4
TEAM DEVELOPER 7.3.3	4
SAL API	4
UI	5
TEAM DEVELOPER 7.3.2	5
SAL API	5
TEAM DEVELOPER 7.3.1	5
IDE	5
SAL API	5
UI	7
NATIVE ROUTER	7
REPORTBUILDER	7
MESSAGE	7
MISCELLANEOUS	7
TEAM DEVELOPER 7.3	8
IDE	8
SAL API	8
RUNTIME PROFILING	8
UI	9
SALMAIL	9
MISCELLANEOUS	9

Team Developer 7.3.4

SAL API

- Following three new SalWeb functions can be used only for .NET Web service are added.
 - SalWebGetClientIP to get client IP address from HTTP request.
 - SalWebGetHttpMethod to get method name of HTTP request.
 - SalWebGetHTTPHeader to get specified header value from HTTP request headers.

UI

- You can now disable DPI awareness with following 2 options.
 - Setting "Disable_DPI_Awareness" custom version string for building executable to "YES" in Custom Version Strings dialog invoked from Build Settings - Version - Custom... TD does nothing about scaling but Windows still automatically scale TD application. You can also set it to "OLD" to keep backward compatibility with TD 6.3 and previous releases.
 - Adding registry DWORD value DPIAwareness with value 1 in HKEY_CURRENT_USER\Software\Gupta\SQLWindows 7.3\Settings. Set 2 to keep backward compatibility with TD 6.3.
- The navigate-back/navigate-forward feature is now better integrated with the GoTo Declaration/GoBack feature. Shift-Ctrl-G now operates similar to the navigate-back function of Ctrl-Backspace.

Native Router

- Now connection string can have most of options can be defined in sql.ini. Especially ODBC DSN definition and ORACLE EzConnect format can be defined without defining it in sql.ini like as follows.

```
'ConnectionString:comdll=sqlodb32;dbname="DRIVER=ODBC Driver 17 for SQL
Server;Server=PF21MBWD;Database=SUPPORT;Trusted_Connection=No"'
```

```
'ConnectionString:comdll=sqlora32;dbname=localhost/ora19;longbuffer=1024000;fetch
row=20;SUBSTITUTE=SYSSQL.,'
```

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SAL API

- Added new SAL function SalFieldSetVerticalCentered to make text in data field center

vertically.

- Add new SAL function, SalSetComboBoxItemHeight / SalGetComboBoxItemHeight, to set/get the height of edit control of combo box or item in dropdown list.

UI

- Allow scrollbars on anchor enabled forms and dialogs.

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SAL API

- VisTblAddBitmap now allows up to 65534 bitmaps to be added. The returned ID of valid bitmaps will be between 1 and 65535.
- Added new table flag, TBL_Flag_SelectableRows, for use with SalTblSetTableFlags to allow/disallow rows to be selected by the user. Programmatic row selection using SalTblSetRowFlags with ROW_Selected flag is allowed regardless of the setting of TBL_Flag_SelectableRows.
- Added new SAL function SallconSet to allow setting the window icon from a resource in the outline.
- New SAL function, SqlSetLongDatatype, which can be used instead of SqlSetLongBindDatatype is added. This can set long data type of Bind and Into variables separately for specified SQL handle. SqlSetLongBindDatatype uses global buffer and can be used for both bind and into variables. This introduces ambiguous situation for some case, and it's not clear when its setting will be reset. SqlSetLongDatatype resolves this issue.

Team Developer 7.3.1

IDE

- Add outline preference to allow the number of spaces to indent to be configured.
- Add "Hide Included Item" and "Show Included Items" in object tree context menu for application root item.

SAL API

- Added EXPORT_UnSelectedRows flag for SalGridDataExportEx to export only the unselected rows.
- Added EXPORT_AllRows flag for SalGridDataExportEx to ensure all rows are fetched.
- Added COL_NoEditText flag (0x200) for SalTblSetColumnFlags to prevent paste into column when set.

- Added new table flag, TBL_Flag_DisableVisTblSort, to disable sorting of VisTbl properties (row colors, images) during SalTblSortRows. This improves performance by about 10 percent.
- Added new table flag, TBL_Flag_DisableScrollRange, that can be set to TRUE before a loop that calls SalTblInsertRow, and then reset to FALSE when the loop completes.
- Added new table flag, TBL_Flag_UseTableLineColor, to use the same line color for child grid and grid window as the child table and table window. This flag is ignored by the child table and table window.
- Added new table flag, TBL_Flag_GroupFontUseGrid, to allow using the same font for the grid and its groups.
- Allow LBS_ThemedCombo style to be ORed with with LBS_VisExtensions in call to VisListSetStyle in VTM_Create for VT list boxes:

Call VisListSetStyle(hWndItem, LBS_VisExtensions| LBS_ThemedCombo, lParam)

- A new message, SAM_TrackMenuInit, has been added to allow adding menu items to a named menu after SalTrackPopupMenu has been called.
- A new constant, TPM_DynamicMenu, has been added that can be ORed with the nFlags argument of SalTrackPopupMenu to indicate that dynamic menus are used. Another new constant, MENUFLAG_TRACKMENU has been added that can be ORed with the nFlags argument of SalMenuInsert to indicate that the menu item should be added to the track popup menu. When the user clicks on the added menu item, SAM_MenuItemClick is executed on the parent form or dialog, passing the name of the added menu item.
- New SAL function, SalTooltipSetDelay and SalTooltipGetDelay

bOk = SalTooltipSetDelay(hWnd, nDelay)
Sets the time in milliseconds to delay SAM_DisplayTooltip for the current control.
Returns TRUE on success

nDelay = SalTooltipGetDelay(hWnd)
Returns The tooltip delay time in milliseconds.
- New SAL function, SalTabEnableCtrlTab

bOk = SalTabEnableCtrlTab(hWndTab, bEnable)
Enable or disable Ctrl-Tab key on tab bar. By default, the tab bar handles the Ctrl-Tab key.
- New SAL function, SalSetButtonChecked

bOk = SalSetButtonChecked(hWnd, nCheck)
Sets whether a radio button, option button, or check box is checked.
A radio button can only be checked. Other radio buttons in the same group are unchecked.

Parameters:

hWnd Window Handle. The handle (or name) of a radio button, option button, or check box.

nCheck Number. 0 = Unchecked, 1 = Checked.

Return Value:

Returns whether checked/unchecked operation successful.

- New SAL function, SalYieldSetInterval

bOk = SalYieldSetInterval(nInterval)

Sets the number of statements to execute between yield handling. Default is 48.

- Add a new SAL function, SalAnchorEnable, that can be called in SAM_Create to enable the control anchoring feature for toolbars.

bOk = SalAnchorEnable(hWndToolbar, bEnable)

Must be called from SAM_Create of the parent form. Anchoring is disabled if the user moves a toolbar from a vertical to horizontal docked orientation, or vice versa.

UI

- The grid will no longer scroll to the beginning when it is disabled.

Native Router

- Currently TD hard coded which ODBC driver supports back end result set. Now customer can specify ODBC driver supporting back end result set by themselves by using brsdriver option in [odbcrt] section of sql.ini like as follows. If actual ODBC driver name starts with this name TD enable back end result set for it. Note that this might introduce some side effect (performance issue or so) TD cannot handle.

```
[odbcrt]  
brsdriver=msodbcsql
```

ReportBuilder

- We cannot find out the way to open this old style WMF image. Instead ReportBuilder now save such WMF image data as external file and shows a dialog to indicate its location. Customer can convert it to EMF image manually and embed it to ReportBuilder instead of original WMF image.

Message

- A new message, SAM_TrackMenuInit, has been added to allow adding menu items to a named menu after SalTrackPopupMenu has been called. A new constant, MENUFLAG_TRACKMENU has been added that can be ORed with the nFlags argument of SalMenuInsert to indicate that the menu item should be added to the track popup menu. When the user clicks on the added menu item, SAM_MenuItemClick is executed on the parent form or dialog, passing the name of the added menu item.
- The SAM_DropDown message is now handled for a column with Date Time cell type.

Miscellaneous

- Now deployment installer has "Web service components" feature in Select Features dialog.

Team Developer 7.3

IDE

- Overloaded functions will be shown in the 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 now has Debug Windows sub menu and following menu items are moved to there (Auto, Threads, Variables, Call Stack, Messages, Expressions and Locals), and having new menu item, Profiling Viewer, at bottom.

SAL API

- **SalTraceDebug** – convenience function to write debug messages to the IDE output window without needing to use StartTrace/EndTrace
- **SalStrHash** – Generates hash values for a string parameter. Supports MD5, SHA1, and SHA 256 – 512 algorithms.
- **CdkSetUTF8Option** – CDK API function to enable/disable UTF-8 outline save/read option available in Tools->Preferences->General tab.
- **SalDlgGetAutoHideStatus/SalDlgSetAutoHideStatus** – get/set the auto hide status of docked dialogs.
- **SalXmlSerializeUDVToString/SalXmlDeserializeUDVFromString** – Xml serialize UDV to string parameter instead of file.
- **SalNavSaveStateEx/SalNavLoadStateEx** – Save/load state of navigation bar to receive params.
- **SalNetCompileAndEvaluate** – Enhanced to support calling SAL functions
- **SalNotifyInitToast/SalNotifyShowToast** – Enhancement to our notification API added in 7.2, these functions create native Windows 10 toast notifications with improved OS functionality (the 7.2 balloon/notify API is compatible with earlier versions of Windows but lack certain features on Windows 10).
- **SalCreateWindowEx** – now supports a new CREATE_ChildWithMenu flag that enables child forms to display a menubar. Note that these menus will not work in every scenario, such as split windows.
- **SalQueryFieldEdit/SalSetFieldEdit** – Added support for Rich Text controls
- **VisWinLoadAccelerator** – Allows constant KDS_KeyDownMask flag to be OR'd with nKeyDownState argument, changes behavior to trigger on keydown instead of default keyup.

Runtime Profiling

- The profile viewer has been enhanced with a grid tree view option for better performance and sorting/filtering capability. The viewer also now supports showing annotations and custom profile points.
- Three new profile functions have been added to the API:
 - **SalProfileAnnotate** – Adds annotations to the output
 - **SalProfileTagEnter** – Starts a custom profile point

- **SalProfileTagLeave** – Stops a custom profile point

UI

- Anchoring support for controls to enable dynamic resize/position as the parent container is resized (Win32 only).
 - To enable, set Anchoring Enabled to Yes on parent container (form/tab etc.)
 - Controls have new properties:
 - Vertical Anchor/Horizontal Anchor – Changes horizontal or vertical resize/position behavior as parent container is resized
 - Minimum Width/Minimum Height: Set a limit on how small a control can get, when limit is hit, parent container won't resize below that point.
- New message SAM_ColHeaderClick for Grid and Table Window to determine programmatically what column header a user clicked.

SalMail

- 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.

Miscellaneous

- 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