

New Features in Team Developer Version 5.2

CDK Update

The CDK outline interface has been updated to cater to the new controls that were added in 5.1 and 5.2:

These controls are as follows:

- Date Picker
- Date Time Picker
- Grid
- Rich Text Control
- Tab Bar

Compiler Tab in Preferences

The dialog box invoked by selecting Preferences from the Tools menu contains a new tab entitled "Compiler." In this tab, you can choose whether the compiler displays a warning message when a deprecated function is used.

Connection Strings

A new [ConnectionStrings] section has been added to SQL.ini. This section contains connection strings in a flexible format consisting of multiple name/value pairs in this form:

“name1=value1;name2=value2;...”

The routers still support the existing sections, but in addition, the TD global variable SqlDatabase can now optionally take a connection string in the format:

“ConnectionString:<Actual Connection String Here>”.

This enables TD developers to more flexibly specify a database connection.

See [“Connection Strings” on page 7](#) of the document entitled *Initializing and Testing Your Connection*.

Date and DateTime Messaging

Date and DateTime Pickers now support a messaging interface.

The following messaging interfaces are supported:

- SAM_AnyEdit - To capture any keystroke
- SAM_FieldEdit - Sent when changes to a field have been done
- SAM_KillFocus - When the focus goes away from the current object
- SAM_SetFocus - When the object receives the focus
- SAM_Validate - To validate contents after editing

Embedded Images

Images are now embedded in .EXE files by default. This feature can be disabled from the Build Settings dialog box (select "Build Settings" from the Project menu and uncheck the last checkbox - see below).

Grid Control

Extensive support for table window api's. For information on the Grid Control, including sorting and grouping, see ["Grid" on page 26](#) in the document *Developing with SQL Windows*.

HTML Help

WinHelp is not supported in Windows Vista without installing a WinHelp viewer, so Team Developer Help is now presented in a compiled HTML Help file (sqlwin.chm) which is supported by Vista.

Together with this new help system, a new sal api enables SQLWindows Applications to reference HTML Help files. This new api is called **SalHtmlHelp**.

Max Data Length: Character & Byte

By default, the Max Data Length attribute is measured by character length, regardless of how many bytes the data contains. This makes no difference in English strings, because 1 character requires 1 byte. However, as an example, a Japanese kanji character requires 2 bytes. This can cause ambiguity in the length of the string, because a Japanese string with a character length of 5 has a byte length of 10.

A new boolean system variable eliminates this ambiguity by allowing you to indicate whether the Max Data Length attribute is determined by character length or byte length. This clarification helps prevent database insert errors, and provides compatibility with earlier Team Developer versions.

Set **bMaxDataLengthInBytes** to TRUE On SAM_AppStartup to set the Max Data Length attribute as byte length.

Multiple Object Select

Multiple objects can be selected in the outline or in the form layout. Use Ctrl-click to select multiple objects and Shift-click to deselect one of the objects. See [Multiple Object Select on page 2-19](#) in the document *Developing with SQL Windows*.

New Binary Data Type variable

Adds the Binary Data Type variable. See [Data types on page 7-2](#) in the document *Developing with SQL Windows*.

Push Button and Option Button Attributes

Three attributes have been added for the push button and option button controls:

- Image Alignment
- Text Alignment
- Text Image Relation

These provide better control with respect to the look and feel of push/option buttons. See ["Push button attributes" on page 30](#) in the document *Developing with SQL Windows*.

Report Builder Text Rotation

Report Builder introduces a new feature for rotating text 0, 90, 180, or 270 degrees.

Ribbon Control Enhanced

Includes new api `SalSetActiveRibbonPage` (see `SQLWindows` in-build help).

Rich Text Control

Adds Rich Text Control object, including a corresponding set of properties in the attribute inspector, a new pushbutton in the controls palette, and 29 `SalRTF` functions.

See [“Rich text” on page 48](#) and [Controls palette on page 2–26](#) in the document *Developing with SQL Windows*.

See also the [Rich Text Control Functions](#) chapter in the document *Team Developer - API Reference*.

Using Rich Text control, Team Developer applications can save full .rtf files, which are recognized by other applications that accept .rtf format, such as Microsoft Word. Additionally, RTF objects and documents can store complex data such as images, tables, hyperlinks, and unicode text.

A Rich Text Control object has also been added to Report Builder. Place a Rich Text field in a report just as you would a Text Field or Data Field.

Support Importing Web Services which require authentication

Three methods of web service authentication are now supported:

- HTTP Basic
- HTTP Digest
- WS-SECURITY

See [Authentication on page 6–1](#) in the document *Developing with SQL Windows*.

Support for Latest Windows Versions

Team Developer 5.2 is supported on Windows Vista, Windows Server 2008, and Windows 7.

Tab Control

`SalTabHidePage` and `SalTabShowPage` were the only available tab api's in the 5.1 release. The 5.2 release includes the following tab api's:

1. **SalTabAddPage** - Add a page at the end or at the place where user can insert
2. **SalTabPageCount** - Returns the number of tab pages
3. **SalTabRenamePage** - Rename the tab page
4. **SalTabRemovePage** - Remove the tab page
5. **SalTabAssociateChild** - Associate a child to a tab page
6. **SalTabDisassociateChild** - Disassociate a child for a tab page
7. **SalTabSetActivePage** - Setting the active tab
8. **SalTabDisablePage** - Disable tab page

9. **SalTabEnablePage** - Enable tab page
10. **SalTabGetPageTitle** - Returns the tab page name depends on the index passed
11. **SalTabGetPageIndex** - Returns the tab index depends on the name passed
12. **SalTabGetActivePage** - Returns the current active tab page

Table2Grid Utility

The Table2Grid utility has been provided to migrate existing applications' table windows to grid controls. To run the utility, double-click on **Table2Grid.exe** in your root Team Developer installation directory.

Note: The Table2Grid utility can also be run from the command line as follows:

```
Table2Grid "TableApplication1.app" "c:\temp"
```

Parameter 1 is a string which specifies the app, apt, or apl which has the tables.

Parameter 2 is a string which specifies an output directory to store the converted file.

Tooltips

A ToolTip property has been added to many of the UI controls together with sal api's SalSetTooltip and SalGetTooltip. See in-build help for details on these sal api's.

Warning message when using deprecated api's

Displays a warning message when using an obsolete api. This feature can be disabled through the Tools menu (Tools / Preferences / Compiler Tab).

Watermark Image Support (Report Builder)

Allows you to use images or text as watermarks, as well as set watermark properties (size, transparency, diagonal/horizontal layout, etc). See [Watermarks](#) in the document [Report Builder Workspace](#).

Team Developer Guide to New Features