

# TEAM DEVELOPER™

New & Changed Features

Product Version 7.2

Team Developer™: New & Changed Features

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## Team Developer 7.2.1

- VisArray functions now works with UDV arrays.
- Binding data type for long data will be cleared when executing SqlPrepare. Because of this change SqlPrepareAndExecute, executing SqlPrepare and SqlExecute internally, does work with SqlSetLongBindDatatype anymore. If application uses Long String variable as bind variable for binary data, application should split SqlPrepareAndExecute with SqlPrepare and SqlExecute and calls SqlSetLongBindDatatype between them.

## Team Developer 7.2

### IDE

- 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.

### SAL API

- SalStrEncrypt/SalStrDecrypt added to easily encrypt/decrypt strings using AES encryption algorithm.
- SalTabsWindowActivated – 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
- SalGridsRowExcludedByFilter – 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>
- SqlConnectionEx – 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)
- SalNavSetGroupTitle – updates a navigation bar group title

## Runtime 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 <ouput file>
  - Sal API:
    - SalProfileStart(filename, profileLevel)
    - SalProfileSuspend()
    - SalProfileContinue()
    - SalProfileStop()
    - SalProfileGetInfo()
- Level 1 profiling includes messages and internal functions. Level 2 includes Sal functions and externals.

## UI

- 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
- MDI Window has a new property, MDI Tabs. This can be set to a Top, Bottom etc. to have child windows render as tabs like the IDE.

## Miscellaneous

- 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.
- 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.