

API Enhancements

Team Developer 7.4.x

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Agenda

- Menu
- Date Picker
- Printing
- Notifications
- Ribbon Bar
- For-Each Loops
- Continue Statement
- Copy User Defined Variables
- Report Builder Enhancements

API - Enhancements

Menu

- `SalMenuDelete()` now allows deleting menu items that are defined in an outline
- New:
 - `SalScrollEnableCtxMenu()` to enable or disable the context menu for descendant scroll bars
- New:
 - `SalMenuSetStatusText()`, `SalMenuGetStatusText()`
 - `SalMenuSetTipText()`, `SalMenuGetTipText()`

API - Enhancements

Date Picker

SalCalGetSelectedDates(hWnd, dArray, nCount)

- hWnd – Name or handle of the Date Picker control
- dArray – Array of selected date-time values
- nCount – Number of selected date-time values

Code

```
◇ Call SalCalGetSelectedDates( dd1, dtArray, nDates )
```

API - Enhancements

Date Picker

dLast = SalDateMonthEnd(dd1)

- dLast – last day of month to a selected date
- dd1 – given date

dNew = SalDateAddDay(dd1, nDays)

- dNew – new calculated date
- dd1 – given date
- nDays – number of days to add

Code

```
◆ On SAM_Click  
  ◇ Set dfLast = SalDateMonthEnd( dd1 )
```

```
◆ On SAM_Click  
  ◇ Set dfResult = SalDateAddDay( dd1, dfDays )
```

API - Enhancements

Date Picker

SalCalSetSelectedDates(hWnd, dArray)

- hWnd – Name or handle of the Data Picker control
- dArray – Array of date-time values to display

Code

```
◇ Call SalCalSetSelectedDates( dd2, dtArray )
```

API - Enhancements

Printing

New option to send generated PDF files directly to printer for `SalReportPrintToFile()` and `SalReportPrintToFileEx()`:

- `RPT_PrintToPrinter`

New options to support duplex printing for `SalReportPrint()`:

- `RPT_PrintDubVertical`
- `RPT_PrintDubHorizontal`

Code

```
◆ Message Actions
  ◆ On SAM_Click
    ◇ Call SalReportPrintToFile( dlgPrinting, 'My.rpt', 'MyFile.pdf', 'sVars', 'sInputs',
      nCopies, RPT_PrintToPrinter | RPT_PrintDupHorizontal, 0, 6, 2, nErr )
```

API - Enhancements

Notification

SalNotifyShowToast (slcon, arText, arActions)

- slcon – Icon to show on notification; New: can be a resource icon
- arText – Array of text to display
- arActions – Array of actions

Code

```
◇ Call SalNotifyShowToast( slcon, Lines, Actions )
```


API - Enhancements

Notification

SalNotifyClearToasts()

This function removes all Toast - Notifications with the same application ID shown in Action Center.

TD does not remove Notification when application terminating.

You should call this function in [SAM_AppExit](#) event section if you don't want to keep Notifications.

Code

```
◇ Call SalNotifyClearToasts( )
```

API - Enhancements

Ribbon Bar

SalRibbonAddItemEx()

New parameter:

- strImage - Bytes, string or binary. Buffer containing the image bytes from `SalPicGetImage()` or a string containing the filename.
- nType - Number. The format of the picture contents from `SalPicGetImage()`, or `PIC_FormatFromFile` if strImageBytes contains the filename.

Allows the user to dynamically create items on a ribbon bar using picture binary or string for the item image.

Code

API - Enhancements

Ribbon Bar

SalRibbonSetItemImageEx()

New parameter:

- strImageBytes - String or binary. Buffer containing the image bytes from `SalPicGetImage()` or a string containing the filename.
- nType - Number. The format of the picture contents from `SalPicGetImage()`, or `PIC_FormatFromFile` if strImageBytes contains the filename.

Code

API - Enhancements

Ribbon Bar

Added „**RibbonBar Enabled**“ attribute to form window class, table windows class, grid window class, and MDI window class.

The ribbon bar now follows the model used by menu bars: The menu bar used by a form at runtime is the first non-empty menu found when searching up the inheritance tree.

Code

API - Enhancements

ForEach Loops

ForEach var in varArr

where the var variable and varArr array are of the same type, or an allowed UDV assignment

ForEach var in varArr using nIdx

When the 'using' clause is specified, both var and nIdx should be declared as local variables in the calling function. The varArr array may be declared at any program scope.

Code

```
◆ ForEach myVarIter in myVarArr
  ◇ Set strTmp = ""
  ◆ ForEach strVar in strVarArr using nIdx
    ◇ Set strTmp = strTmp || strVar || ' '
    ◇ Call SalListAdd( lbForEachLoops, myVarIter.my
    ◇ Set nIdx=nIdx+1
```

API - Enhancements

Continue

Continue

- The new `Continue` statement causes the `While`, `Loop` and `ForEach` statement to execute, but does not increment any loop variables.

Code

```
◆ ForEach MyUDVInstance in MyUDVArray
  ◇ Set sTemp = ""
  ◆ If MyUDVInstance.nKey = 2
    ◇ Continue
  ◇ Call SalDateToStr( MyUDVInstance.dDate, sDate )
  ◇ Set sTemp = "Key: " || SalNumberToStrX( MyUDVIns
```

API - Enhancements

Copy User Defined Variables

SalObjCopy (oOriginal, oCopy)

- oOriginal – UDV to copy
- oCopy – copy of the UDV

This function copies the values of all instance variables from one UDV object to another.

Both variables must be declared with the same functional class.

Code

```
Set oCopyCompany = new clsCompany  
Call SalObjCopy( oCompany, oCopyCompany)
```

• Report Builder Enhancements

- Support of 16 Break Groups
- Conditional display of pictures
- PNG image transparency is honored in reports
- Image EXIF data is respected for correct image rotation
 - Landscape & Portrait

Demo

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Q & A

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Thank you



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