

Resizing, Zooming, 4K Monitors & More

Team Developer 7.4.x

Agenda

- Resizing
 - Enhancements
 - Attributes & API
- Zooming
 - API
- 4K – Monitors
 - Build Settings
- Samples / Demos

Resizing Enhancements (Overview)

- Control anchoring is now available for .NET applications
- Control anchoring is now available for tool bars
- Anchoring is now allowed for tab bars that have the “**Tile to Parent**” attribute set to “**Yes**”
- New “**Anchor Maximum Width**” and “**Anchor Maximum Height**” attributes to container windows that have the “**Anchoring Enabled**” attribute. The “**Anchor Maximum Width**” and “**Height**” attributes because the child control in the container window to stop resizing and re-positioning when the container size exceeds the maximum, but do not prevent the resizing.
- Forms and dialogs that have “**Anchoring Enabled**” set to “**Yes**” no longer have scrollbars added when the size is adjusted smaller.
- New API functions to set/get anchoring attributes during runtime

Resizing (Attributes)

Attributes

- Container Windows:

- Child Windows:

Attribute Settings

Anchoring Enabled	Yes
Vertical Anchor	Top
Horizontal Anchor	Left
Minimum Width	8.0"
Minimum Height	1.5"
Anchor Maximum Width	10.0"
Anchor Maximum Height	4.0"

Vertical Anchor	Bottom
Horizontal Anchor	Right
Minimum Width	2.0"
Minimum Height	0.25"

Resizing API

API Description

bEnabled = SalAnchorIsEnabled(hWnd)

Returns **TRUE** whether anchoring is enabled if hWnd is a:

- Form
- Form Toolbar
- Dialog Box
- Tabbar
- Navigation Bar

Code

```
◆ If SalAnchorIsEnabled( frm1 )  
  ◇ Set dfAnchoringIsEnable = "Anchoring enabled"  
◆ Else  
  ◇ Set dfAnchoringIsEnable = "Anchoring disabled"
```

Resizing API

API Description

bAnchorMode = SalAnchorGet (hWnd, nHorzAnchor, nVertAnchor)

- Gets the horizontal and vertical anchor property for a given hWnd
- Returns **TRUE** if the property exists, otherwise **FALSE**

Code

```
◇ Call SalAnchorGet(grid2, nAnchorHor, nAnchorVert )
◆ If nAnchorHor = 0
  ◇ Set dfHorzAnchor = 'Left'
◆ Else If nAnchorHor = 1
  ◇ Set dfHorzAnchor = 'Right'
◆ Else If nAnchorHor = 2
  ◇ Set dfHorzAnchor = 'Both'
◆ Else If nAnchorHor = 3
  ◇ Set dfHorzAnchor = 'None'
◆ If nAnchorVert = 0
  ◇ Set dfVertAnchor = 'Top'
◆ Else If nAnchorVert = 1
  ◇ Set dfVertAnchor = 'Bottom'
◆ Else If nAnchorVert = 2
  ◇ Set dfVertAnchor = 'Both'
◆ Else If nAnchorVert = 3
  ◇ Set dfVertAnchor = 'None'
```

Resizing API

API Description

bAnchorMode = SalAnchorChildInitScaling (hWndChild, bInitHorz, bInitVert)

- Returns **FALSE** if the control does not support anchoring
- hWndChild – Window Handle (handle or name of a window)
- bInitHorz – Boolean (Whether to initialize horizontal scaling, **FALSE** disables)
- bInitVert – Boolean (Whether to initialize vertical scaling, **FALSE** disables)

Code

```
◇ Call SalAnchorChildInitScaling( grid1, TRUE, TRUE )
◇ Call SalAnchorChildInitScaling( grid2, TRUE, TRUE )
◇ Call SalAnchorChildInitScaling( grid3, TRUE, TRUE )
◇ Call SalAnchorChildInitScaling( grid4, TRUE, TRUE )
◇ Call SalAnchorChildInitScaling( grid5, TRUE, TRUE )
◇ Call SalAnchorChildInitScaling( grid6, TRUE, TRUE )
◇ !
◇ Call SalAnchorChildInitScaling( bkgd1, TRUE, TRUE )
◇ Call SalAnchorChildInitScaling( bkgd2, TRUE, TRUE )
◇ Call SalAnchorChildInitScaling( bkgd3, TRUE, TRUE )
◇ Call SalAnchorChildInitScaling( df1, TRUE, TRUE )
◇ Call SalAnchorChildInitScaling( df2, TRUE, TRUE )
◇ Call SalAnchorChildInitScaling( df3, TRUE, TRUE )
```

Resizing API

API Description

bSet = SalTblSetTableFlags (hGrid, TBL_Flag_ColSizeProportional, bSet)

- hGrid - Handle or name of the grid or table
- TBL_Flag_ColSizeProportional – table / grid flag to set
- bSet – **TRUE**: set proportional; **FALSE**: reset proportional

Code

```
◆ If SalTblQueryTableFlags( grid1, TBL_Flag_ColSizeProportional) = TRUE  
  ◇ Call SalTblSetTableFlags( grid1, TBL_Flag_ColSizeProportional, FALSE )  
◆ Else  
  ◇ Call SalTblSetTableFlags( grid1, TBL_Flag_ColSizeProportional, TRUE )
```


Resizing API

API Description

bOk = SalAnchorEnable(frm1, bEnable)

- frm1 – Name or Handle of form, dialog, tabbar, toolbar , or navbar
- bEnable – **TRUE** = enable anchoring; **FALSE** = disable anchoring
- **This function must be called from SAM_Create of the parent form**

Code

```
◇ Call SalAnchorEnable( frm1, TRUE )
```

Resizing API

API Description

Set bEnabled = SalAnchorIsEnabled(hWnd)

- bEnable – boolean; **TRUE** = Anchoring is enabled, **FALSE** = Anchoring is disabled
- hWnd = Handle or name of a form, form toolbar, dialog box, tabbar, or navigation bar

Code

```
◇ Set bEnabled = SalAnchorIsEnabled( frm1 )  
◆ If bEnabled = TRUE  
  ◇ Set dfEnabled = 'True'  
◆ Else  
  ◇ Set dfEnabled = 'False'
```

Resizing API

API Description

Call `SalAnchorSetScrollbarsEnabled(bEnable)`

- `bEnable` Boolean: `TRUE` to enable scrollbars for forms and dialogs with anchoring enabled

Enable/disable scrollbars for forms and dialogs with anchoring enabled. By default, with anchoring enabled, the user is prevented from resizing the window smaller than the minimum width and height. Setting this to `TRUE` allows the user to resize smaller than the minimum, with scrollbars added as needed.

When set to `TRUE`, controls that do not specify minimum width or height will use their initial values for width and height as the minimum values.

This setting applies to all windows and so should be called in `SAM_AppStartup` before creating any windows.

Code

- ◆ Application Actions
 - ◆ On `SAM_AppStartup`
 - ◆ Call `SalAnchorSetScrollbarsEnabled(TRUE)`

Resizing API

API Description

bEnabled = SalAnchorGetScrollbarsEnabled()

- Returns whether scrollbars for forms and dialogs with anchoring enabled

Code

```
◇ Set bScrollBar = SalAnchorGetScrollbarsEnabled( )  
◆ If bScrollBar = TRUE  
  ◇ Set dfScrollBar = 'True'  
◆ Else  
  ◇ Set dfScrollBar = 'False'
```

Windows Zooming

API Description

bOk = SalZoomWindows (hWnd, nScale)

- hWnd - Window Handle. The handle (or name) of the window to zoom. You can use hWndNULL to zoom all TD windows
 - **Currently this parameter is ignored and use hWndNULL always**
- nScale - Number. The zoom scale between 100 and 400 (100, 125, 150, 175, ..., 400)

Code

```
◆ Radio Button: rb100
  ◆ Message Actions
    ◆ On SAM_Click
      ◇ Call SalZoomWindow( frm1, 100 )
◆ Radio Button: rb120
  ◆ Message Actions
    ◆ On SAM_Click
      ◇ Call SalZoomWindow( frm1, 120 )
◆ Radio Button: rb150
  ◆ Message Actions
    ◆ On SAM_Click
      ◇ Call SalZoomWindow( frm1, 150 )
◆ Radio Button: rb400
  ◆ Message Actions
    ◆ On SAM_Click
      ◇ Call SalZoomWindow( frm1, 400 )
```

Windows Zooming

The image shows two overlapping windows of the Windows 'Resizing & Zooming' utility. The background window is set to 150% zoom, while the foreground window is set to 100% zoom. Both windows feature a control panel with 'Set Scaling' and 'disable scaling' buttons, and radio buttons for 100%, 120%, and 150% zoom. Below the controls are several tables with columns labeled 'column 1' and 'column 2', containing text like 'ABCDEFGHI...'. The foreground window also includes a 'Text fields scaling' section with three input fields labeled 'Label1:', 'Label2:', and 'Label3:'.

Resizing & Zooming (Background Window)

Zoom: 100% 120% 150%

Resizing & Zooming (Foreground Window)

Zoom: 100% 120% 150% I need new glasses

Text fields scaling

Label1: Label2: Label3:

4K - Monitors

Build Settings for Win32 / Win64

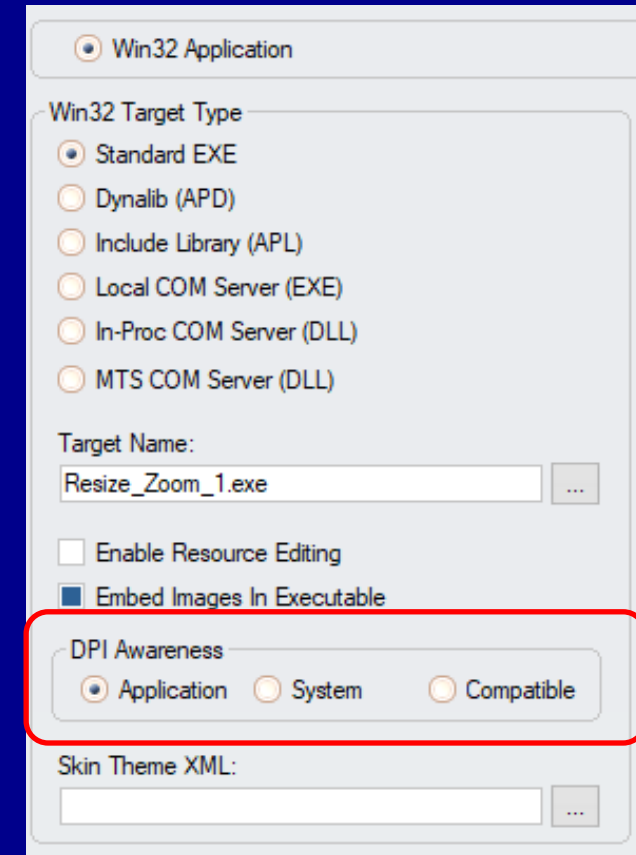
Build Settings for Win32 / Win64 Applications now has an option: DPI Awareness

To disable DPI awareness (**System**) or keep backward capability with pre TD7.0 release (**Compatible**) for standard executable.

Windows automatically enlarge application based on current display scaling if this option is Application (**Application**).

This is equivalent with setting “**Disable_DPI_Awareness**” custom version string to “**YES**” for System or “**OLD**” for Compatible.

Build Settings



Demo

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Q & A

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Thank you



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