

Advantech SE Technical Share Document

Date	2018 / 01 / 01	Related Product	APAX/CODESYS	
Category	■ FAQ □ SOP □ Driver Tech Note			
Abstract	How to use structured text to switch visualization and open a dialog on CODESYS			
Keyword	POU, ST, CODESYS, Visualization, Dialog			
Related OS	N/A			
Revision History				
Date	Version	Author	Reviewer	Description
2018/11/20	V1.0	Owen.Chang		
2018/02/19	V1.1	Owen.Chang		

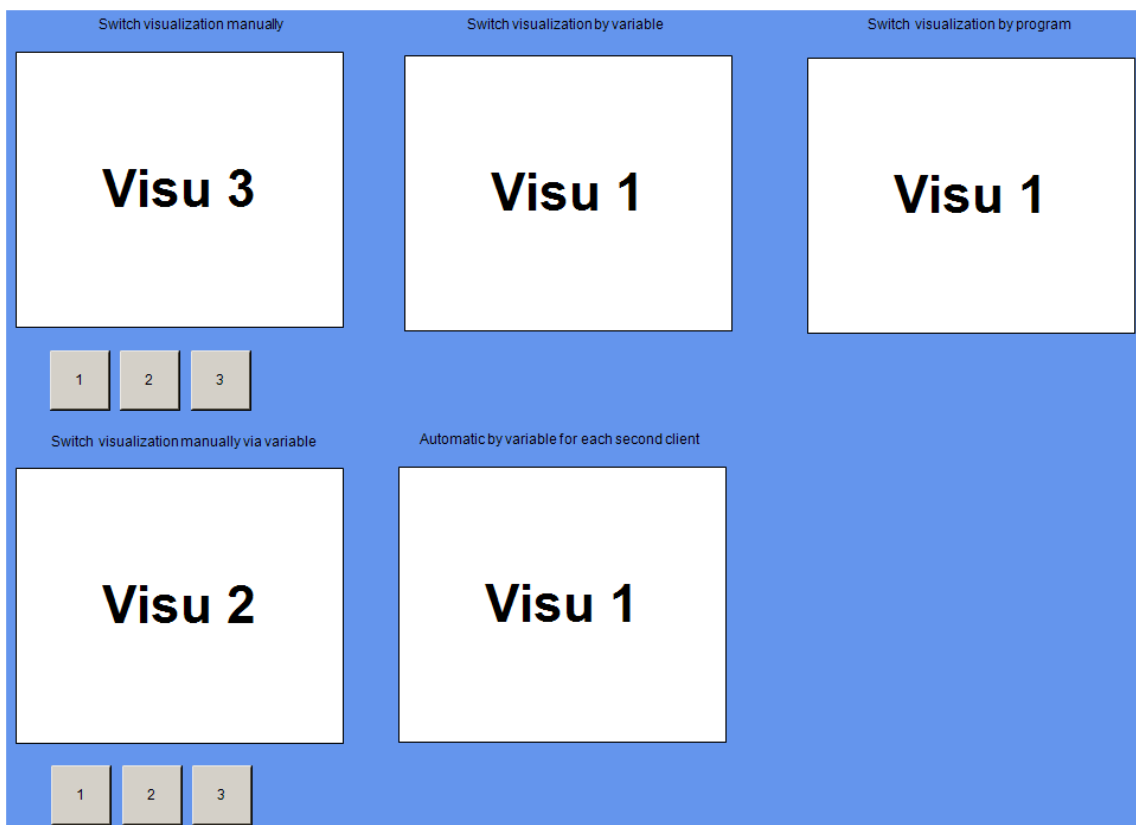
■ Problem Description & Architecture:

Normally, CODESYS switch a visualization page and open a dialog by a button, but sometimes programmers want to do by the logic control. This document shows how to use Structured Text (ST) to switch visualization and open a dialog.

■ Brief Solution - Step by Step:

Switch visualization by ST:

https://store.codesys.com/visualization-switching.html?__from_store=default&__store=en



Open dialog by ST:

Please add a POU into **VISU_TASK**. Programmer can manipulate the visualization elements with visualization library (VisuElem).

<https://forum.codesys.com/viewtopic.php?t=7489#p21082>

Code:

```
FUNCTION F_ShowDialog
VAR_INPUT
    sDialogName : STRING;
END_VAR
VAR
    pstClientData : POINTER TO VisuElems VisuStructClientData;
    itfDialogManager : VisuElems.IDialogManager;
    itfMyDialog : VisuElems.IVisualisationDialog;
    stVisuRect : VisuElems VisuStructSimpleRectangle;
END_VAR
```

Code:

```
VisuElems VisuElemBase.g_ClientManager.BeginIteration();
pstClientData := VisuElems VisuElemBase.g_ClientManager.GetNextClient();
WHILE pstClientData <> 0 DO
    IF pstClientData^.GlobalData.ClientType = VisuElems Visu_ClientType.TargetVisualization THEN
        itfDialogManager := VisuElems.g_VisuManager.GetDialogManager();
        itfMyDialog := itfDialogManager.GetDialog(sDialogName);
        stVisuRect.ptTopLeft.iX := ANY_TO_INT(INT#0);
        stVisuRect.ptTopLeft.iY := ANY_TO_INT(INT#0);
        stVisuRect.ptBottomRight.iX := ANY_TO_INT(10);
        stVisuRect.ptBottomRight.iY := ANY_TO_INT(10);
        itfDialogManager.OpenDialog(itfMyDialog, pstClientData, FALSE, ADR(stVisuRect));
    END_IF
    pstClientData := VisuElems VisuElemBase.g_ClientManager.GetNextClient();
END_WHILE
```