

# Advantech SE Technical Share Document

<b>Date</b>	2020 / 05/ 28	<b>Related Product</b>	CODESYS	
<b>Category</b>	<input checked="" type="checkbox"/> FAQ <input type="checkbox"/> SOP <input type="checkbox"/> Driver Tech Note			
<b>Abstract</b>	How to use CODESYS to stop and start application?			
<b>Keyword</b>	Application			
<b>Related OS</b>	Windows			
Revision History				
Date	Version	Author	Reviewer	Description
2020/05/28	V1.0	Owen.Chang	Nick.Liu	CODESYS SP15

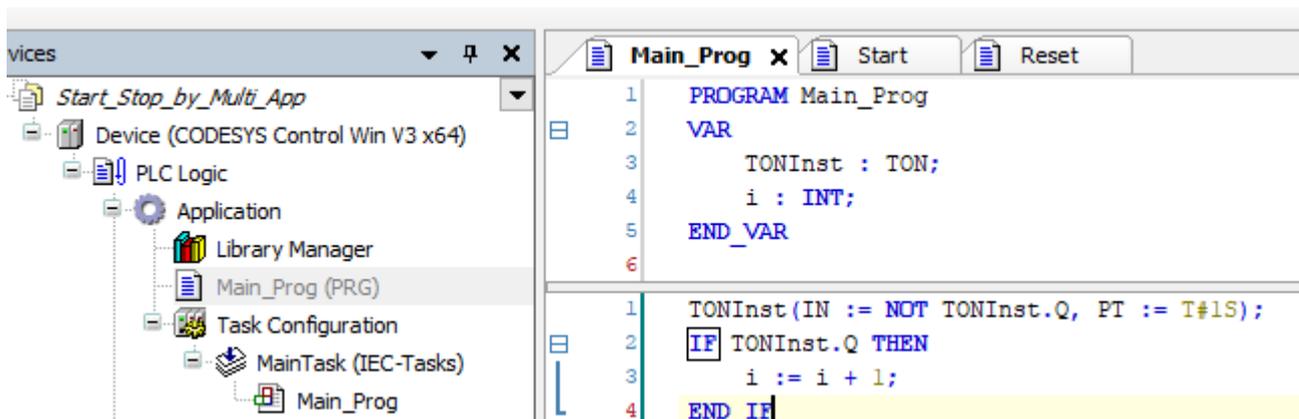
■ **Problem Description & Architecture:**

Sometimes customer want to use CODESYS to stop and start the application. This FAQ shows users how to do this.

■ **Brief Solution - Step by Step:**

**CmpApp** is the library which could get the application info and control them. **AppFindApplicationByName** could get the pointer of target application. Then, **AppStartApplication** with pointer could start application, and **AppReset** could reset application. Both these two function need to put another application which could monitor and control the main application where your code is running. The following is the sample code I wrote. Moreover, you could refer to attached project and video.

Application:



## Application\_1 (Active Application):

The screenshot shows the CODESYS IDE interface. On the left, the 'Devices' tree is expanded to show 'Application\_1' with its 'Start (PRG)' program selected. The main editor displays the code for the 'Start' program:

```

1  PROGRAM Start
2  VAR
3      xStart: BOOL;
4      pApp: POINTER TO APPLICATION;
5      Result: RTS_IEC_RESULT;
6  END_VAR

1  IF xStart THEN
2      pApp := AppFindApplicationByName
3          ( pszString := 'Application',
4            pResult := ADR(Result));
5      AppStartApplication(pApp);
6      xStart := FALSE;
7  END_IF
    
```

The screenshot shows the CODESYS IDE interface. On the left, the 'Devices' tree is expanded to show 'Application\_1' with its 'Reset (PRG)' program selected. The main editor displays the code for the 'Reset' program:

```

1  PROGRAM Reset
2  VAR
3      xReset: BOOL;
4      pApp: POINTER TO APPLICATION;
5      Result: RTS_IEC_RESULT;
6  END_VAR

1  IF xReset THEN
2      pApp := AppFindApplicationByName
3          ( pszString := 'Application',
4            pResult := ADR(Result));
5      AppReset(pApp, RTS_RESET);
6      xReset := FALSE;
7  END_IF
    
```

### Reference:

N/A