

CCAux Interface Example with CoDeSys

Submitted by DanielNG on Fri, 2015-01-16 14:53

To access different interfaces of your arm device you should use our CCAux API. Below is an basic example of the most common uses.

Extracted from the CCAuxTestARMv7:

// Below example shows the simple interface access of the Buzzer

PROGRAM

```
BuzzerVAR
result eErr;
volume UINT := 45;
currentVolume UINT;
setVolume BOOL := FALSE;
frequency UINT := 800;
currentFrequency UINT;
setFrequency BOOL := FALSE;
buzzOn BOOL := FALSE;
buzzerOn BOOL := FALSE;
buzzerOff BOOL := FALSE;
buzzerOnState BOOL;
timeperiod INT := 500;
END_VAR

IF setVolume THEN
    result:= Buzzer_SetVolume(volume:=volume);
    result:= Buzzer_GetVolume(volume=>currentVolume);
    setVolume:= FALSE;
END_IF
IF setFrequency THEN
    result:= Buzzer_SetFrequency(frequency:=frequency);
    result:= Buzzer_GetFrequency(frequency=>currentFrequency);
    setFrequency:= FALSE;
END_IF
IF buzzOn THEN
    result:=Buzzer_Buzz(timePeriod:=timeperiod, blocking:=FALSE);
    buzzOn:= FALSE;
END_IF
result := Buzzer_GetTrigger(trigger=>buzzerOnState);
IF buzzerOn THEN
    result:= Buzzer_SetTrigger(trigger:=TRUE);
END_IF
IF buzzerOff THEN
    result:= Buzzer_SetTrigger(trigger:=FALSE);
    buzzerOn:=FALSE;
    buzzerOff:=FALSE;
END_IF
```

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[1]

Environment and Versions:

CoDeSys 3.5.4.2


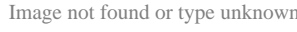
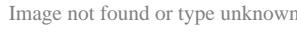
CCAux 2.7.3

LinX-Base 1.1

Category:

[ARM-Platform](#) [2]

[CoDeSys Programming](#) [3]

Attachment	Size
Binary Data	
 CCAuxTestARMv7.projectarchive [4]	15.52 MB
Binary Data	
 CCAuxTestXA.projectarchive [5]	13.87 MB
Binary Data	
 CCAuxTestXM.projectarchive [6]	7.15 MB

Source URL: <https://support.crosscontrol.com/kb/ccaux-interface-example-codesys>

Links

[1] https://support.crosscontrol.com/sites/default/files/CoDeSys_Buzzer.jpg

[2] <https://support.crosscontrol.com/kb/arm-platform>

[3] <https://support.crosscontrol.com/kb/codesys>

[4] <https://support.crosscontrol.com/system/files/kb/CCAuxTestARMv7.projectarchive>

[5] <https://support.crosscontrol.com/system/files/kb/CCAuxTestXA.projectarchive>

[6] <https://support.crosscontrol.com/system/files/kb/CCAuxTestXM.projectarchive>