# Release Notes for EV-COG-AD3029LZ Board Support Package 3.1.0

# Contents

# 1 Release Notes for EV-COG-AD3029LZ Board Support Package 3.1.0

## 1.1 Introduction

EV-COG-AD3029LZ 3.1.0 Board Support Package (BSP) contains software examples using EV-COG-AD3029LZ hardware. This BSP contains various On-chip Peripheral examples, Sensor Strobe example, Bluetooth Low Energy examples, and various Sensor examples.

This BSP has been tested with

- CrossCore Embedded Studio® 2.7.0 (CCES) and
- IAR Embedded Workbench for ARM 8.20.1.

## 1.2 Required Software

### 1.2.1 CrossCore Embedded Studio

To use this Board Support Package with CrossCore Embedded Studio, we recommend that you first obtain and install:

- CrossCore Embedded Studio 2.7.0 or later
- ADuCM302x Device Family Pack 3.1.0
- ADI-SensorSoftware 1.1.0
- ADI-BleSoftware 1.0.0

### 1.2.2 IAR Embedded Workbench

To use this Board Support Package with IAR Embedded Workbench, we recommend that you first obtain and install:

- IAR Embedded Workbench for ARM 8.20.1 or later.
- ADuCM302x Device Family Pack 3.1.0
- ADI-SensorSoftware 1.1.0
- ADI-BleSoftware 1.0.0

Note that only the driver examples have been ported to IAR Embedded Workbench even if the communication and sensor examples also get displayed. Trying to open an unsupported example results on an error when IAR tries to find the .ewp file.

## 1.3 Release Testing

The BSP has been tested with the following environments, boards and emulators.

| Environment | Board | Emulator |
|---|---|---|
| CrossCore Embedded Studio | `EV-COG-AD3029LZ` | `CMSIS-DAP` |
| IAR Embedded Workbench | `EV-COG-AD3029LZ` | `CMSIS-DAP` |

## 1.4 License Checking

Use of the BSP software is subject to the Software License Agreement presented during installation.

The details of this Software License Agreement can be found in the CMSIS pack installation directory, in AnalogDevices\EV-COG-AD3029LZ_BSP\3.1.0\License.

## 1.5 Release Content

This release contains the following examples

- On-chip peripheral examples present on the EV-COG-AD3029LZ board.
- Bluetooth examples based on Findme Target, Proximity Reporter and Data Exchange profiles. These examples are authored by Analog Devices and demonstrate the use of Bluetooth Low-Energy.
- Sensor software examples using Accelerometer (ADXL362), Temperature( ADT7420) sensors. ADXL362 example using Sensor Strobe is also delivered in this package.

### 1.5.1 Location

The EV-COG-AD3029LZ BSP will be installed into the CMSIS pack directory for the targeted development environment:

| | |
|---|---|
| **CrossCore Embedded Studio** | `<cces_pack>\AnalogDevices\EV-COG-AD3029LZ_BSP\3.1.0` |
| **IAR Embedded Workbench** | `<iar_packrepo>\EV-COG-AD3029LZ_BSP\3.1.0` |

with

`<iar_packrepo>` being configurable under Tools  Options  CMSIS-Pack  Local Pack Repository

### 1.5.2 Directory Information

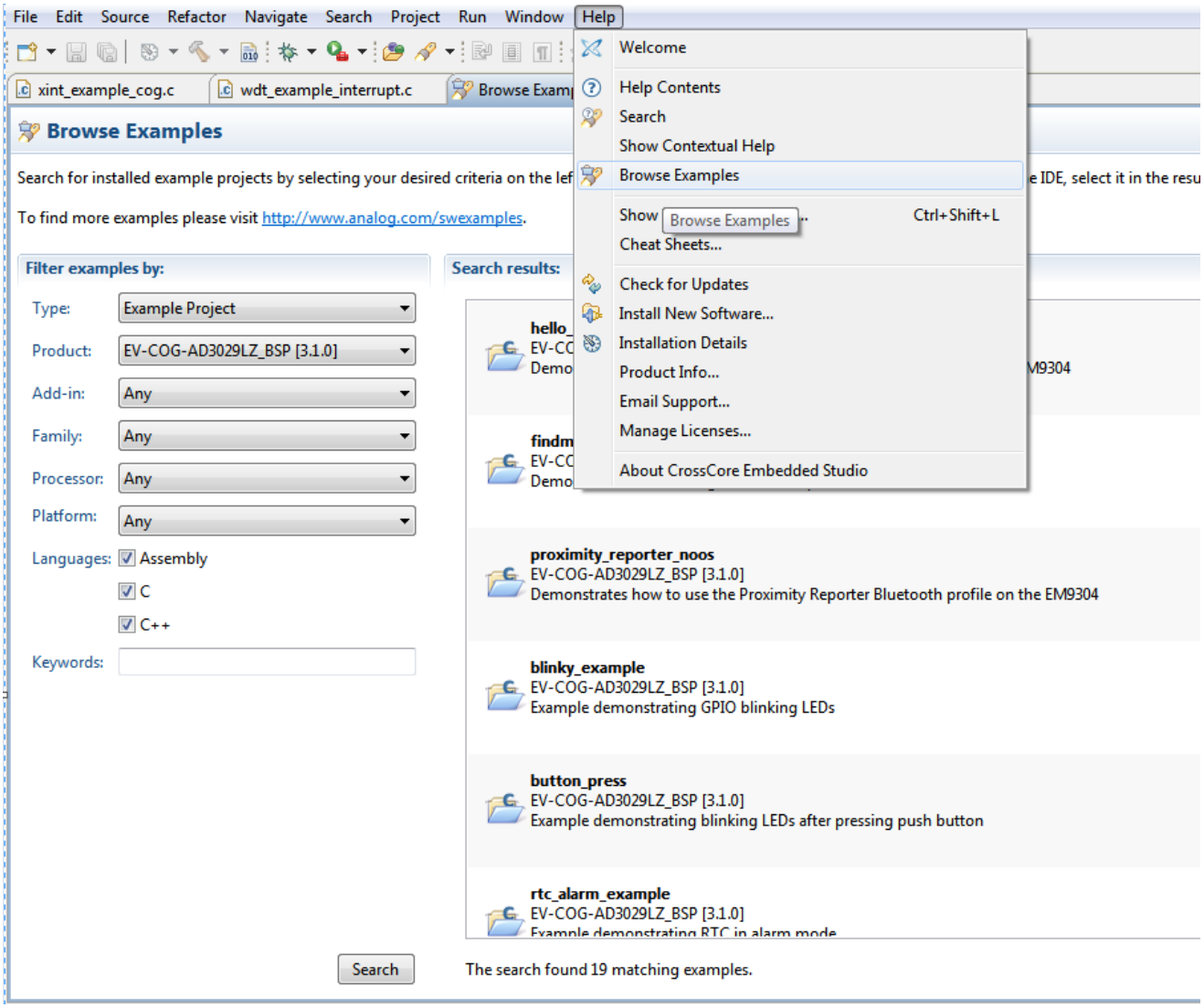
| Directory | Description |
|---|---|
| Boards/EV-COG-AD3029LZ/Examples/communication /ble | Bluetooth Examples |
| Boards/EV-COG-AD3029LZ/Examples/drivers | On-chip peripheral Examples |
| Boards/EV-COG-AD3029LZ/Examples/sensor | Sensor Examples |
| Source/drivers | Off-chip peripheral driver source files |
| Include/drivers | Off-chip peripheral driver header files |
| Documents/ | Documentation |
| Tools/ble/programmer | Bluetooth Low-Energy OTP Tool (binary and source) |
| License | License agreement |

## 1.6 Running Examples on EV-COG-AD3029LZ Board

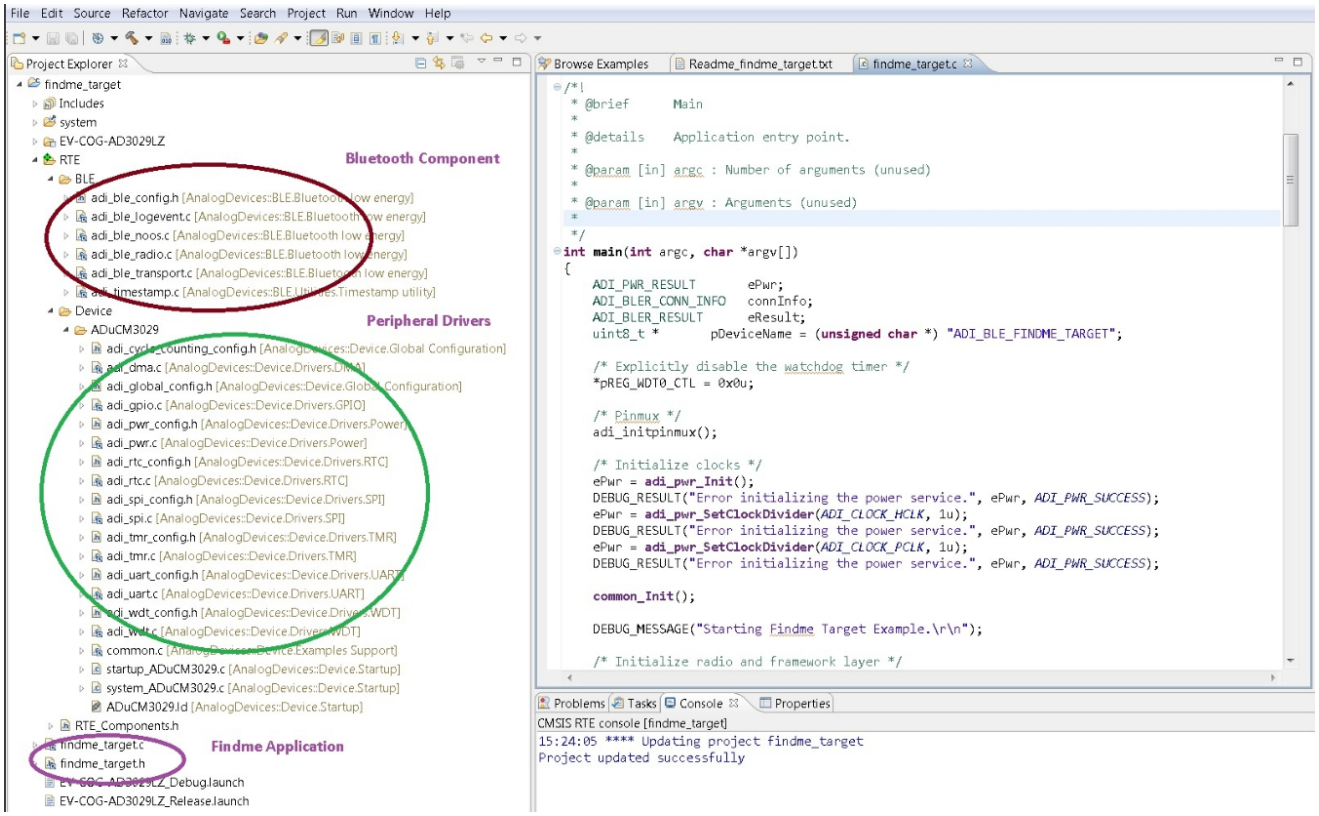
### 1.6.1 CrossCore Embedded Studio

Examples from the EV-COG-AD3029LZ Board Support Package can be run by following below steps

- Click on Help  Browse Examples
- Select Product  EV-COG-AD3029LZ_BSP [3.1.0]
- Double click on any example
- Build and run the example



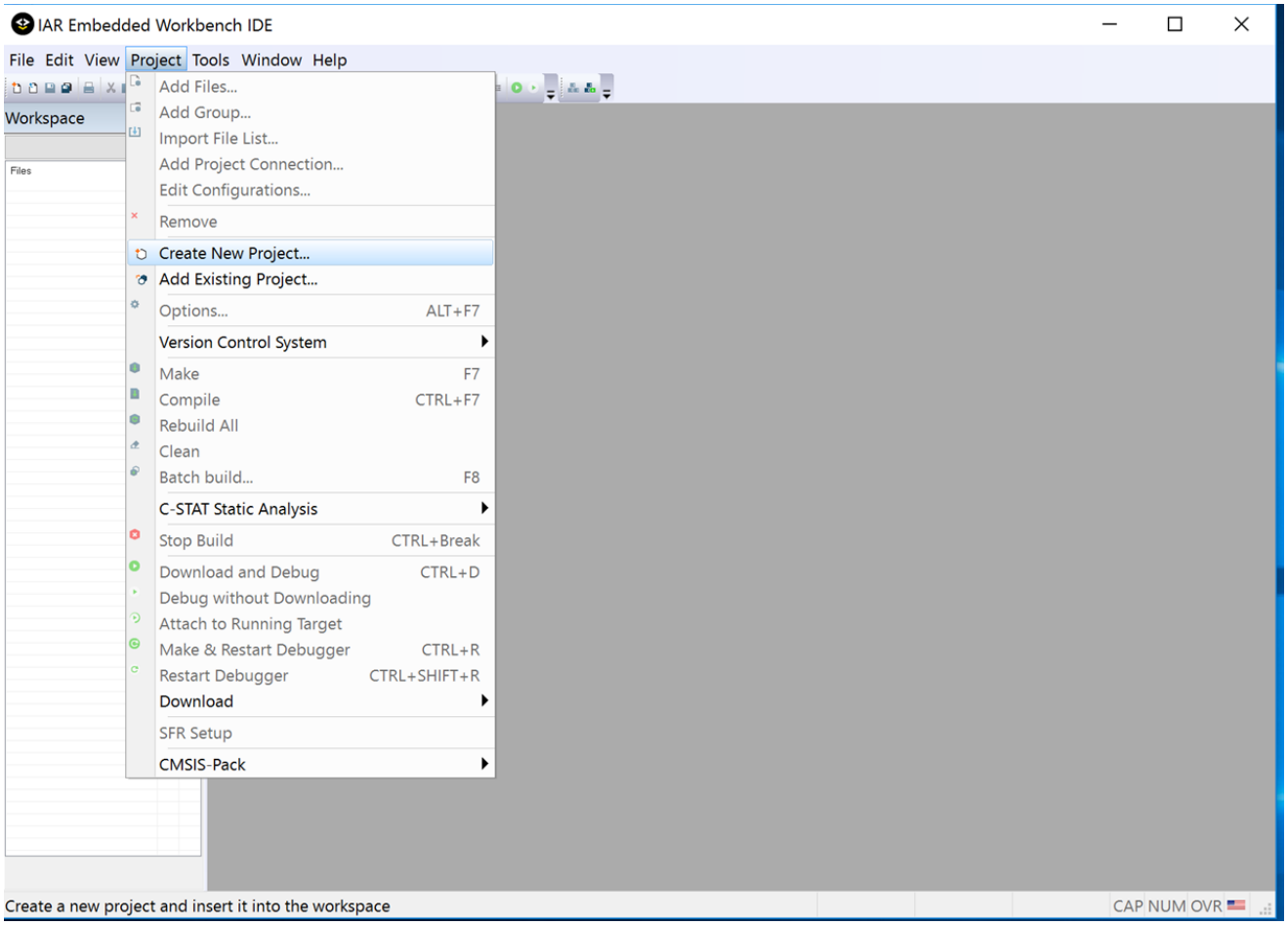

- Findme_target_noos example project loaded into CCES 2.7.0



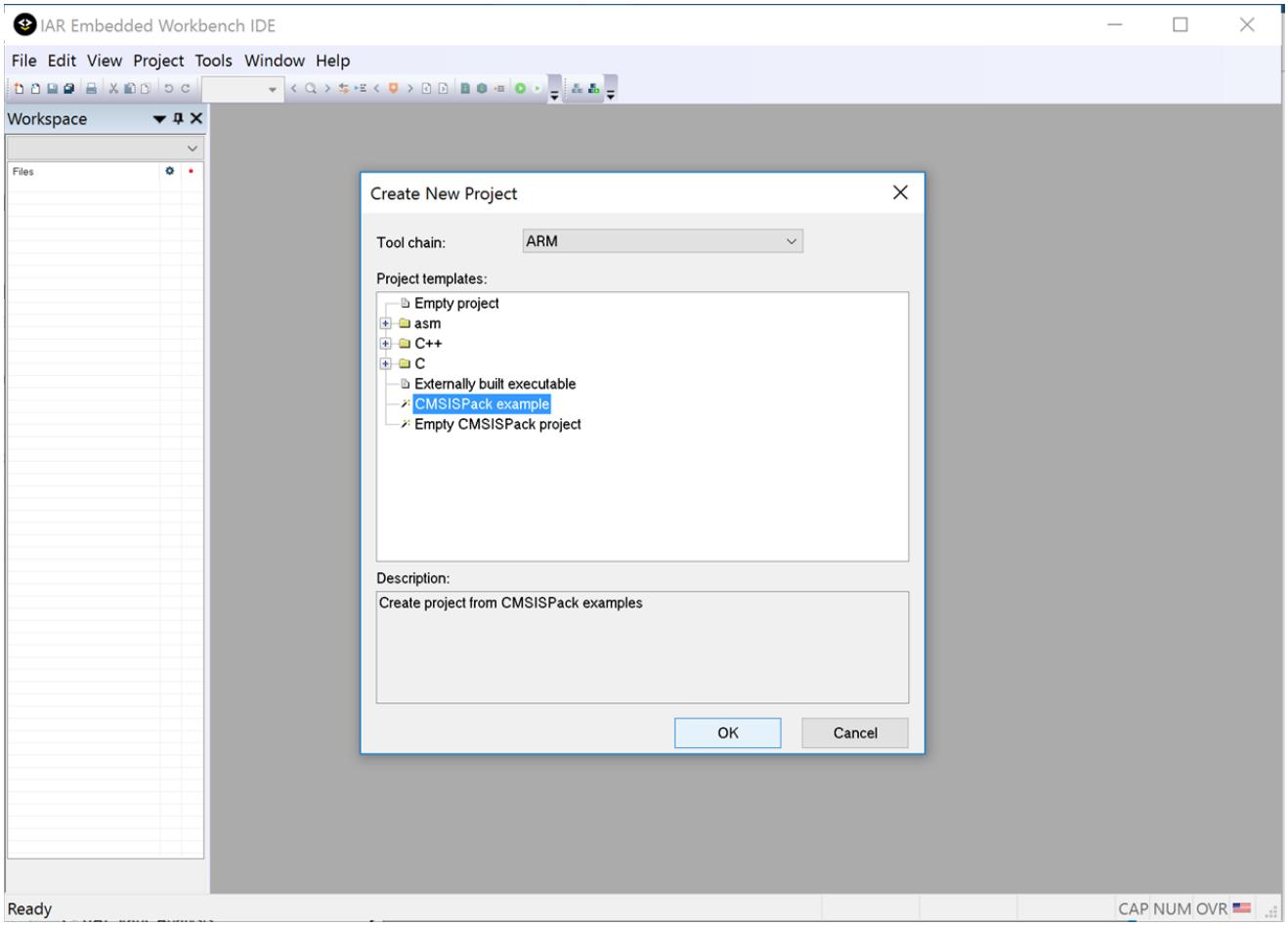

### 1.6.2 IAR Embedded Workbench

Examples from the EV-COG-AD3029LZ Board Support Package 3.1.0 can be run by following below steps

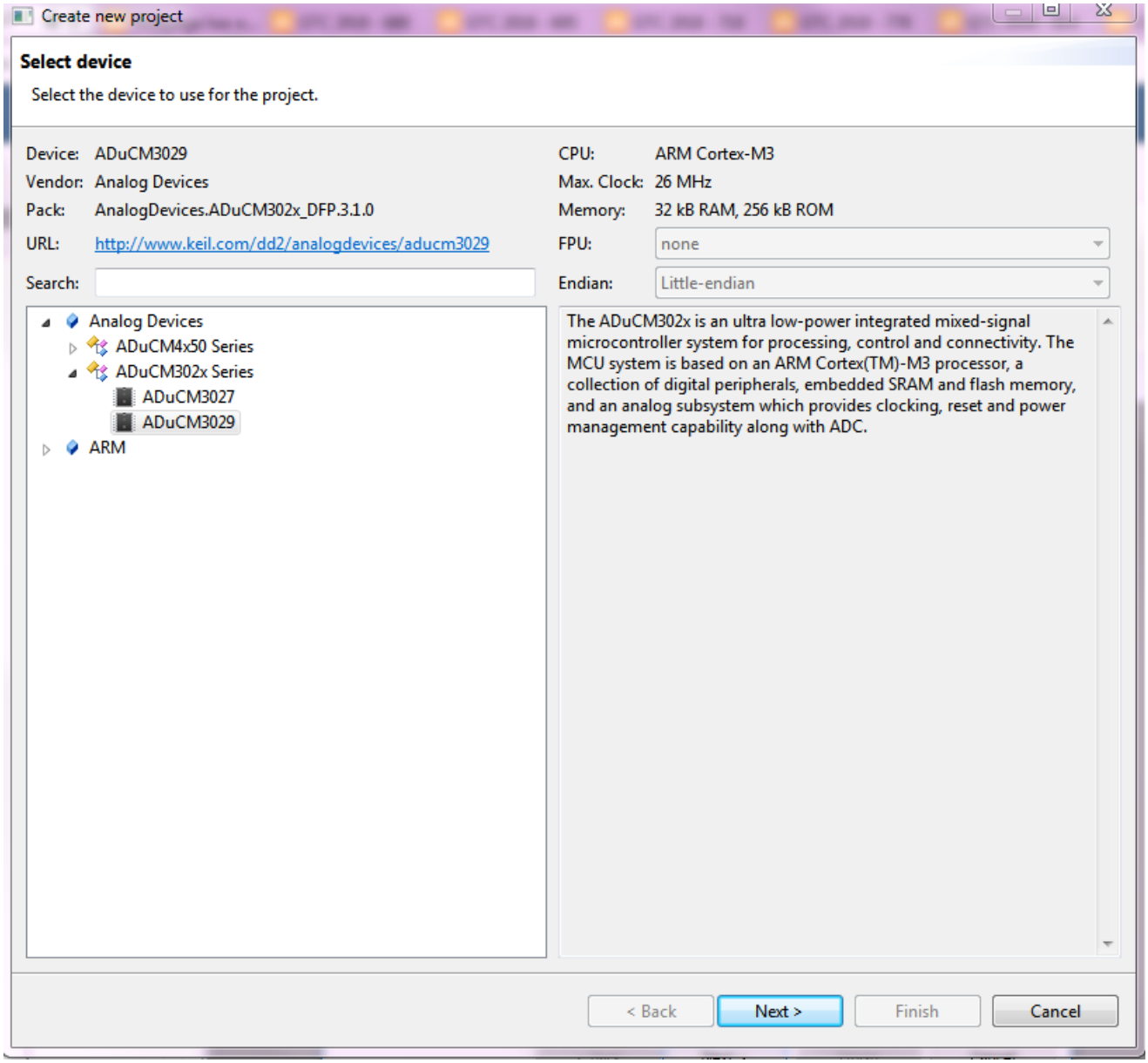
- Click on Project Create New Project



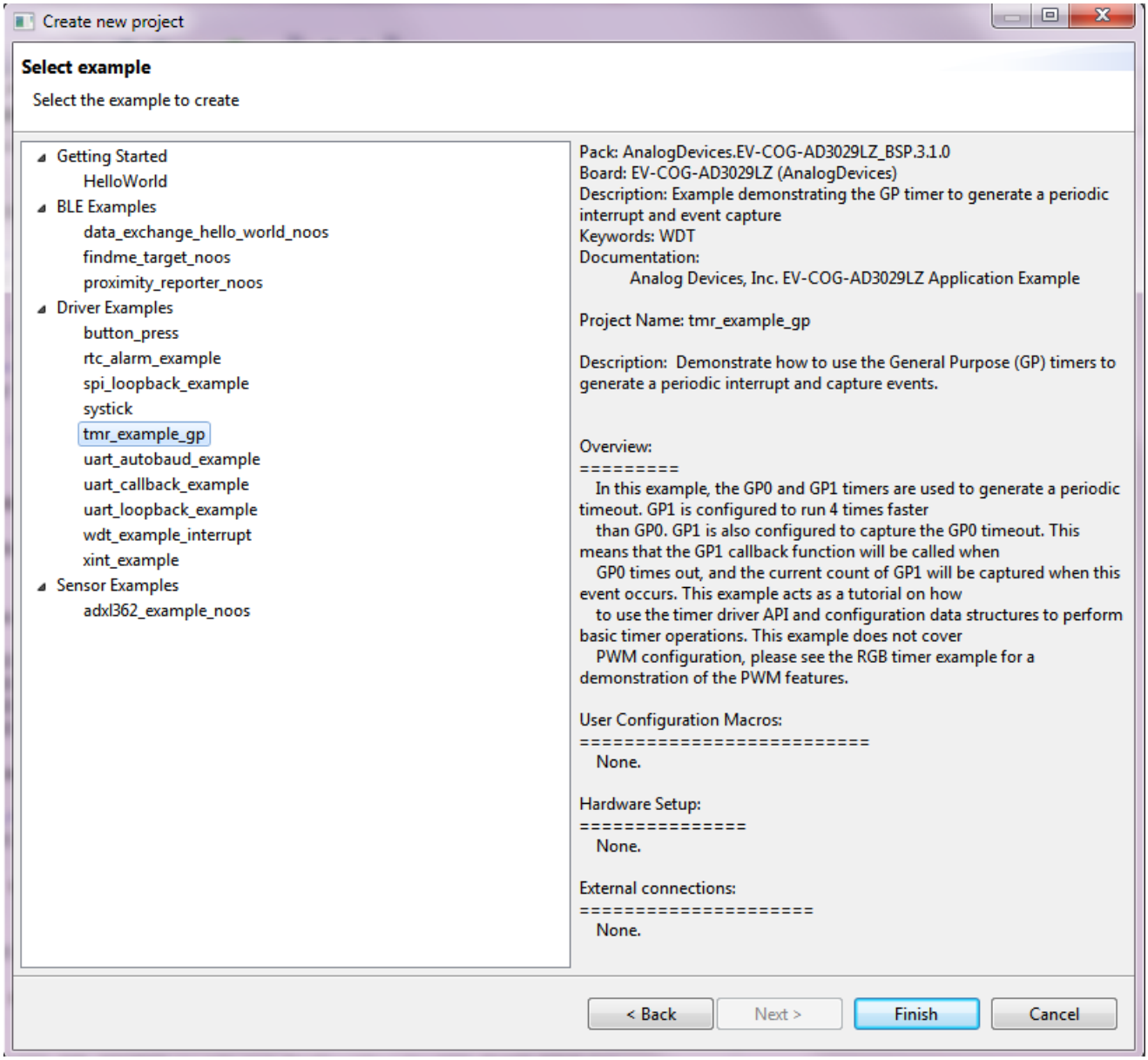

- Select CMSIS Pack Examples and click " OK".



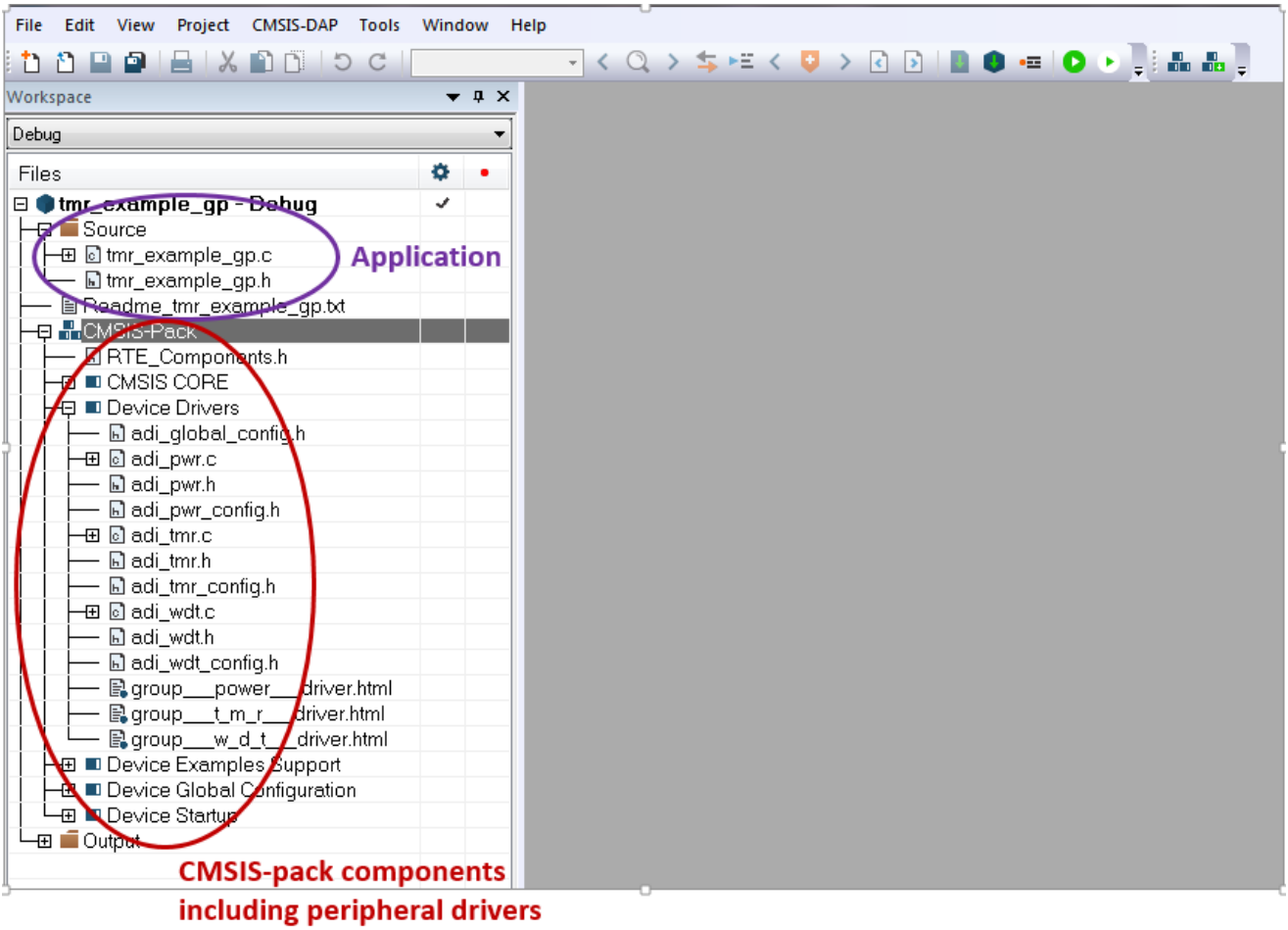

- Select Analog Devices ADuCM3x29 Series ADuCM3029 and click "Next".




- Select the example you want to use, e.g. tmr_example_gp: a description appears, then click "Finish".




- Choose the directory where you weant the example to be copied.
- The example is loaded into IAR Embedded Workbench




- Build and run the example

## 1.7 Contacting Technical Support

You can reach Analog Devices software and tools technical support in the following ways:

- Post your questions in the software and development tools support community at EngineerZone®.
- E-mail your questions about processors and processor applications to processor.support@analog.com.
- For Greater China, Processors and DSP applications and processor questions can be sent to: processor.china@analog.com.
- Submit your questions to technical support directly via http://www.analog.com/support.
- Contact your Analog Devices sales office or authorized distributor.

# 2 Known Issues

For the latest anomalies please consult our Software and Tools Anomalies Search page.

- Examples may not load correctly using CCES File Import (COG3029BSP-47) - Workaround: Instead of using import use Help  Browse Examples to open an example project.