Release Notes for Sensor Software 1.0.0

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1 Introduction

ADI Sensor Software 1.0.0 package contains sensor class drivers and examples using various sensors such as ADXL362 Accelerometer, ADT7420 Temperature sensor, CN0397 Visible Light sensor and CN0357 Toxic Gas sensor. These applications use the ADICUP3029 hardware platform along with associated sensor shields. The IoTNode Android application, located in the ADICUP3029 Board Support Package, is used as a Host application. Sensor example applications can use Bluetooth to send sensor data to the Android application or they can print sensor readings to the terminal.

2 Required Software

2.1 CrossCore Embedded Studio

To use this Sensor Software with CrossCore Embedded Studio (CCES), you must first obtain and install:

- CrossCore Embedded Studio 2.6.0 or later.
- ADuCM302x Device Family Pack 2.0.0 or later.
- ADICUP3029 Board Support Pack 1.0.0 or later.

3 Release Testing

3.1 CrossCore Embedded Studio

The Sensor Software has been tested with below hardware platform, sensor shields.

Board	Emulator
`EVAL-ADuCM3029`	`CMSIS-DAP`

Sensor Shield	Description
PmodACL2	ADXL362 Accelerometer
EVAL-ADT7420-PWDZ	ADT7420 Temperature Sensor
EVAL-CN0357-ARDZ	Toxic Gas Sensor
EVAL-CN0397-ARDZ	Visible Light Sensor

4 License Checking

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

5 Release Content

This release contains the following sets of components:

- Sensor class software sources and headers.
- Examples using the sensor class software.
- Documentation.

5.1 Location

The Sensor Software package will be installed into the below directory under targeted development environment:

CCES	`<cces_root>\ARM\PACK\AnalogDevices\ADI-SensorSoftware\1.0.0`

5.2 Directory Information under Sensor Software pack directory

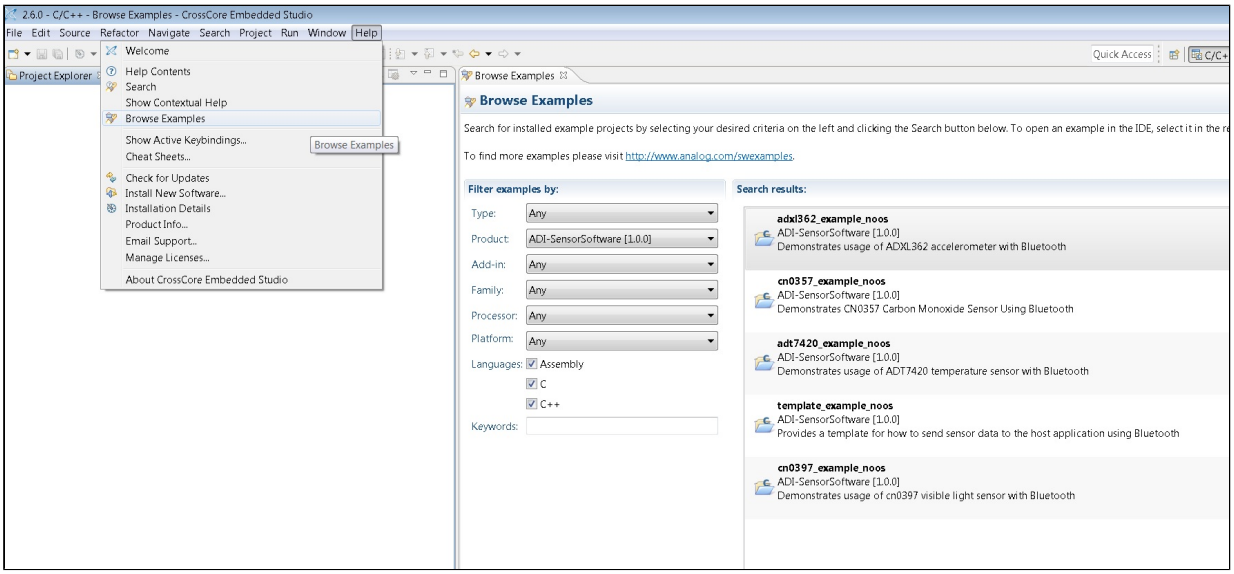
Directory	Description
Source/	Sensor class software source files
Include/	Sensor class software include files
Documents/html/index.html	Sensor class software documentation
Boards/	Examples

5.3 Running Examples on ADICUP3029 Board using associated sensor shield

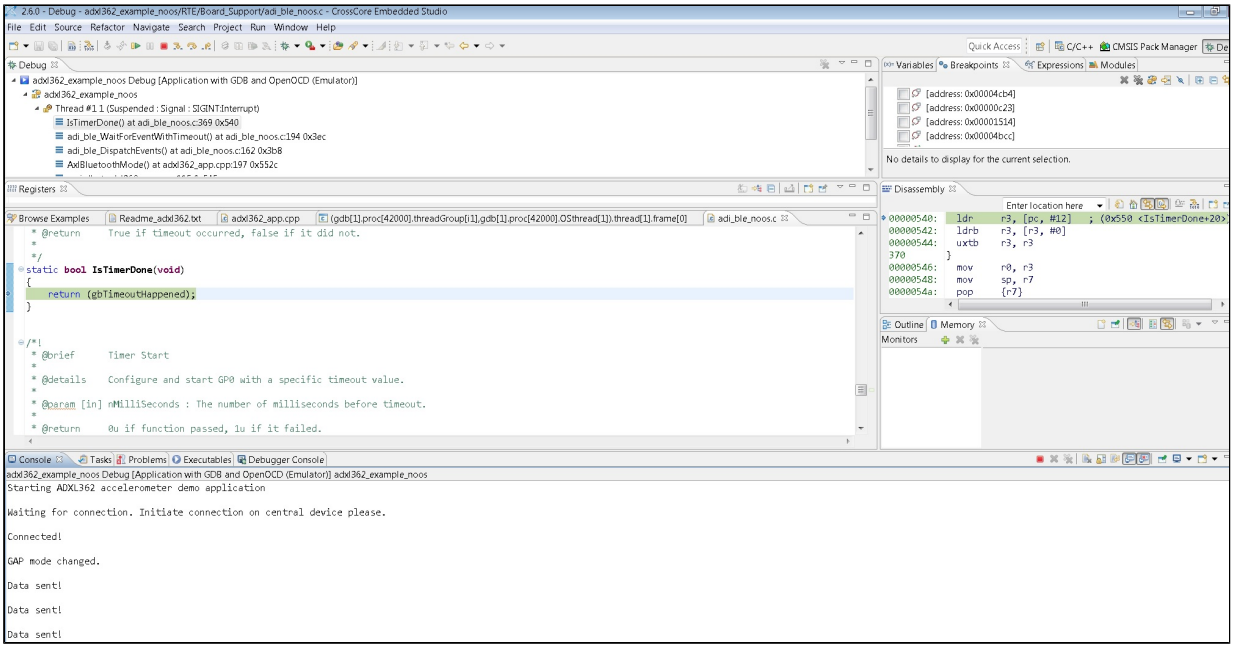
Examples from theADI-Sensor Software can be run by following below steps

- Click on Help Browse Examples
- Select Product ADI-SensorSoftware [1.0.0]

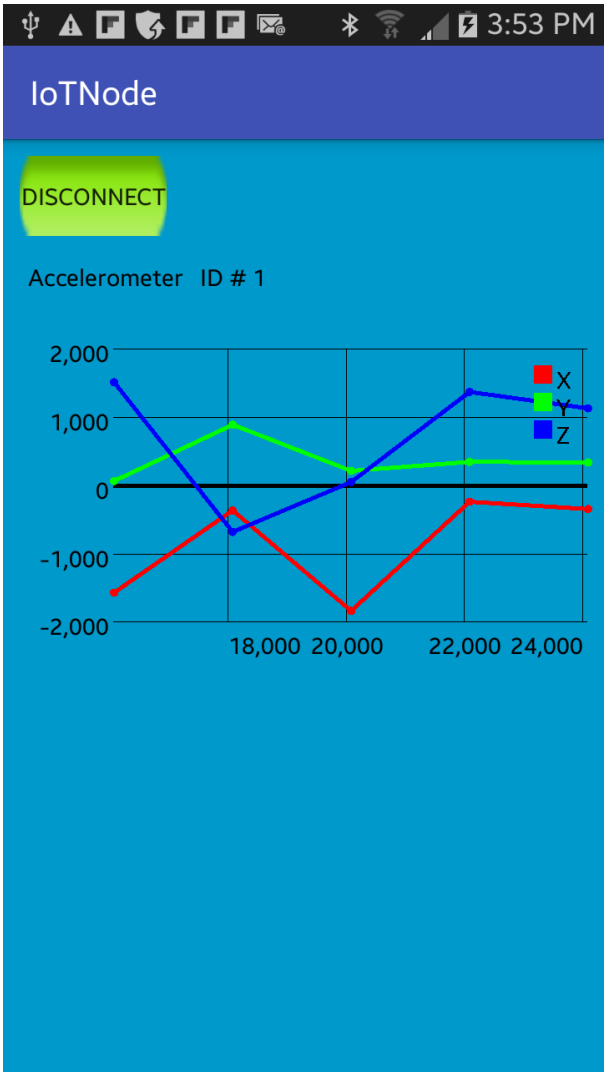
- Double click on any example
- Connect the associated sensor shield to ADICUP3029 board as described in the example's Readme.
- Build and run the example.

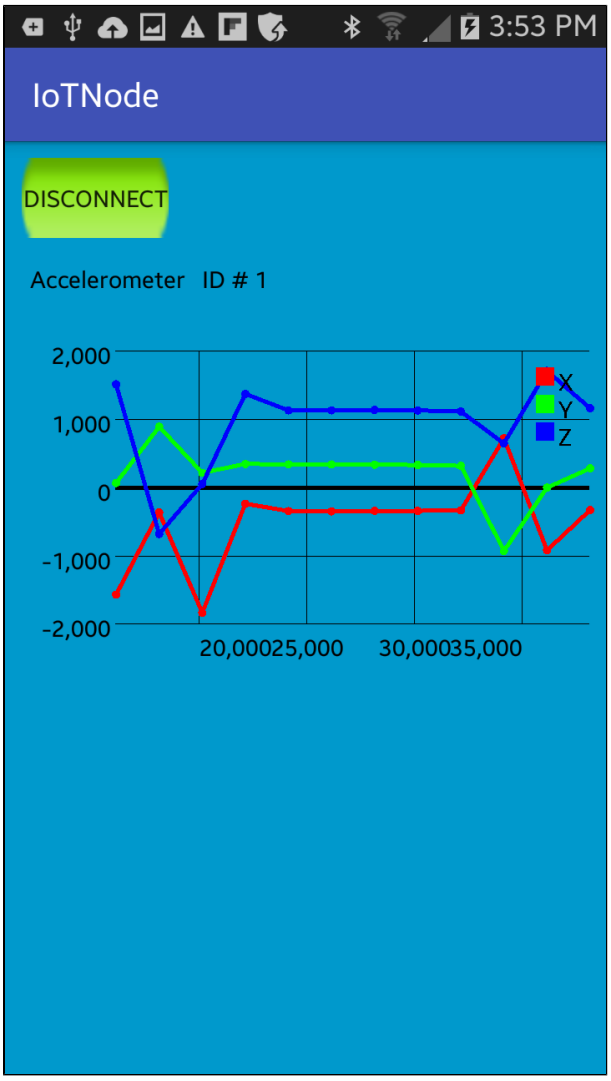


- Below screen shot shows adxl362_example_noos application after connected to IoTNode Android application.



- IoTNode android application depicting accelerometer X,Y, Z values





5.4 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.

6 Known Issues

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