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1 Introduction

ADI BLE Software 1.0.0 package contains documentation and software for using the ADuCM3029 ultra low-power microcontroller with the EM9304 Bluetooth Low-Energy radio. The software package also contains the IoTNode Android application for Bluetooth Low-Energy host connectivity. This software package acts as a library that can be used with any platform containing the ADuCM3029 and the EM9304. The software is delivered in the form of a CMSIS PACK file, allowing all necessary BLE Software source files and include paths to be easily added to a user project by simply selecting PACK components.

This software was previously in the ADICUP3029 Board Support Package 1.0.0 release. It has been moved to a standalone software package since the software is now used in Board Support Packages for other hardware platforms. These hardware platforms are listed below.
2 Required Software

2.1 CrossCore Embedded Studio

To use the BLE Software, you must first obtain and install,

- CrossCore Embedded Studio 2.6.0
- ADuCM302x Device Family Pack 2.0.0
3 Release Testing

3.1 CrossCore Embedded Studio

The BLE Software has been tested with the following hardware platforms,

<table>
<thead>
<tr>
<th>Board</th>
<th>Emulator</th>
</tr>
</thead>
<tbody>
<tr>
<td>EVAL-ADICUP3029</td>
<td>CMSIS-DAP</td>
</tr>
<tr>
<td>EV-COG-AD3029LZ</td>
<td>CMSIS-DAP</td>
</tr>
</tbody>
</table>
4 License Checking

Use of the BLE software is subject to the Software License Agreement presented during installation.
5 Release Content

This release contains the following sets of components:

- Bluetooth Low-Energy software targeting the ADuCM302x
- Common communication utilities used to assist with creating Bluetooth applications
- IoTNode Android application
- Associated documentation

5.1 Location

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

| CCES | <cces_root>\ARM\PACK\AnalogDevices\ADI-BleSoftware\1.0.0 |

5.2 Directory Information

<table>
<thead>
<tr>
<th>Directory</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Source/communication/ble</td>
<td>Bluetooth Low-Energy software source files</td>
</tr>
<tr>
<td>Source/communication/common</td>
<td>Common communication utility source files</td>
</tr>
<tr>
<td>Include/communication/ble</td>
<td>Bluetooth Low-Energy software include files</td>
</tr>
<tr>
<td>Include/communication/common</td>
<td>Common communication utility header files</td>
</tr>
<tr>
<td>Documents/</td>
<td>Bluetooth Low-Energy software documentation</td>
</tr>
<tr>
<td>Host/ble/android</td>
<td>IoTNode Android application in source form</td>
</tr>
</tbody>
</table>
### Directory Description

<table>
<thead>
<tr>
<th>Directory</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Host/ble/release</td>
<td>IoTNode Android application in binary form</td>
</tr>
<tr>
<td>Host/ble/documentation</td>
<td>IoTNode Android application documentation</td>
</tr>
<tr>
<td>License</td>
<td>BLE Software license agreement</td>
</tr>
</tbody>
</table>

### 5.3 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](https://www.analog.com/ez) 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](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.