PATHPARTNER

DecaWave: UWB-IOT tools Infrastructure

OT-DW1000 Release Notes

OT-DW1000 Version: 01.00.03

Date: 21-Jun-17

1. Important Note

This release is for Nordic NRF52840 platform

2. INTRODUCTION

This release notes provides important information that will assist you in using the OT-DW1000 software package. This document provides the product information and known issues that are specific to the OT-DW1000 software package.

3. New in this Release

Added support for COAP based Cloud application

4. Installation and Usage

Installation and Usage of the MAC package could be found at PP_DecaWave_OT_DW1000_UserGuide

5. Upgrade and Compatibility Information

None

6. Dependencies

This release requires following tools/packages to be installed

OT-DW1000 Package: Version 01.00.03

Ubuntu OS: Version 14.04 LTS

GCC ARM Embedded tool chain: Version 6.3.1 20170215

SEGGER JLink Flash Utility: V6

Pyterm Terminal

7. Platforms Supported

Nordic NRF52840

8. Applications Supported

Open Thread CLI application on EVB1000 Radio and Nordic NRF52840 platform

Open Thread NCP application on EVB1000 Radio and Nordic NRF52840 platform

COAP based Cloud application on EVB1000 Radio and Nordic NRF52840 platform

9. What is Supported

Added support for Open Thread with UWB Radio Abstraction Layer on EVB1000 Radio and Nordic NRF52840 platform

Added Support for Open Thread CLI application on EVB1000 Radio and Nordic NRF52840 platform

Added Support for Open Thread NCP application on EVB1000 Radio and Nordic NRF52840 platform.

Added Support for COAP based Cloud application on EVB1000 Radio and Nordic NRF52840 platform

10. What is Not Supported

Energy scan Feature is not supported

11. Known Issues

Observed that Discover Command displays network info of the Routers inconsistently.

Observed that Ping between Child and Router nodes in a thread network fails.

Observed that Active Scan have a limitation of displaying only one node information. During Active Scan the node will broadcast a message to all the nodes and wait for responses. Since DW1000 doesn't support CSMA/CA if all the responses are arriving in same time, only one node data will be successfully received by the scan initiator node

12. Known Limitations

A PC can support only two nodes while testing Open Thread CLI and NCP Application. While Testing Open Thread CLI and NCP Application with Multiple Nodes we need to use multiple PCs for pyterm Terminal

13. Validation Information

This release is validated on EVB100 and Nordic NRF52840 Platform