

ZBOSS

ZBOSS from DSR is an independent, portable and high-performance Zigbee protocol stack. ZBOSS now supports Zigbee PRO 2023 released in March, 2023 by the Connectivity Standards Alliance.

Benefits

- Hardware-independent
- Cross-platform: OS layer for minimum effort porting
- OS-less configuration
- Fixed memory footprint
- Optimized memory usage: low RAM capacity on targeted device
- Easy-to-use API

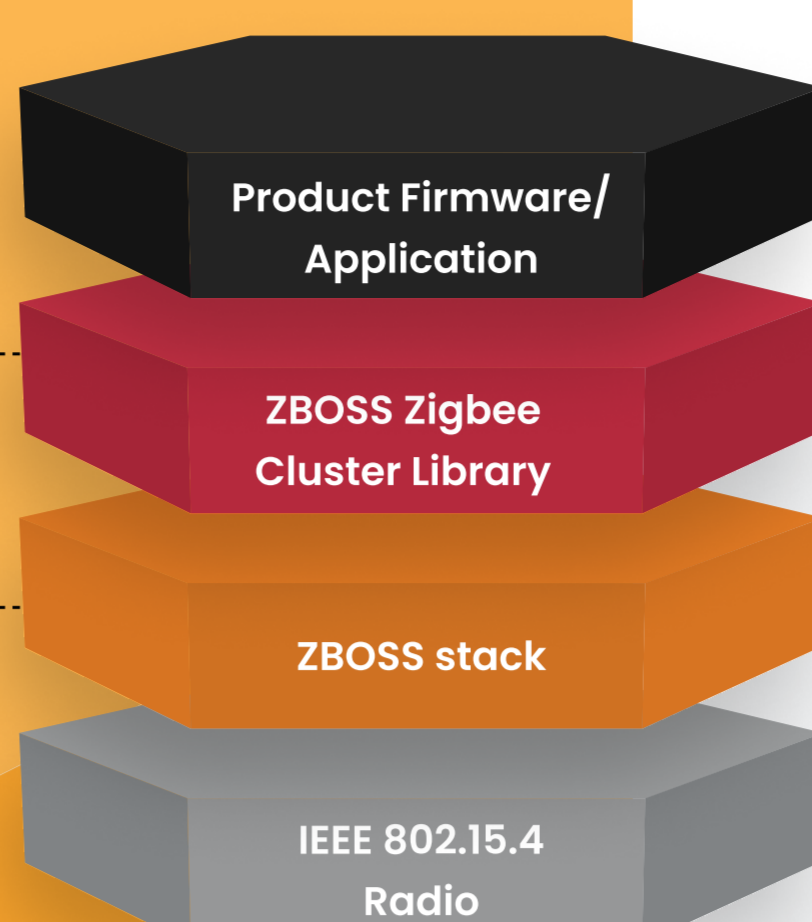
Features

- Zigbee 3.0
- All device roles (ZC, ZR, ZED)
- Zigbee Cluster library (building blocks for consumer devices)
- Zigbee Green Power
- Smart Energy 1.4
- Control4 ecosystem support
- All Hubs support
- Sub-GHz band support
- Zigbee Direct
- State-of-the art Security
- Development tools like ZBOSS Network Simulator, Wireshark support and embedded diagnostic features
- Complete CI/CD to accelerate testing and certification

Zigbee PRO 2023

Zigbee PRO 2023 adds a number of major security enhancements while simplifying the user experience and extending the supported bands beyond 2.4GHz for Europe and North America.

ZBOSS with Zigbee PRO 2023



- Product-specific Implementation "zigbee certified product"
- Application Layer Interoperability
- Network Stack Connectivity "zigbee compliant platform"
- 25+ Platforms Supported by ZBOSS

Get Access

Get access to DSR's ZBOSS at www.dsr-zoi.com
www.dsr-zboss.com
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Zigbee Direct

A new Zigbee functionality that enables onboarding and control of Zigbee devices using Bluetooth Low Energy.

Dynamic Link Key

The use of Public/Private key pairing and advanced security curves to further secure devices and hubs.

Device Interview

Query and filter-out devices based on ecosystem requirements.

Smart Energy Key Management

Coexistence of Zigbee Smart Energy and Zigbee to exchange vital information around control and use of energy.

Trust Center Swap Out

Secure mechanism for replacing a Trust Center without recommissioning all devices on the network.

Sub-GHz Support

Sub-GHz bands in support for Europe and North America deliver increased signal strength and reach.

Additional Enhancements

Zigbee PRO 2023 introduces a number of other features to address modern-day security threats and improve network resiliency.

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IoT Areas of Expertise



Firmware

Wireless Expertise

IoT Framework

Mobile Apps

ZBOSS ZIGBEE PRO 2023 NEW FEATURES

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About DSR

DSR is headquartered in Denver, Colorado and has over 23 years of software development experience. DSR is your company's technology partner, specializing in developing Wireless Solutions, Firmware, IoT Frameworks and Mobile Apps that fit your specifications. DSR is ready to serve your technology needs and empower you toward future success. We actively participate and lead the development of industry standards through organizations like the Connectivity Standards Alliance.