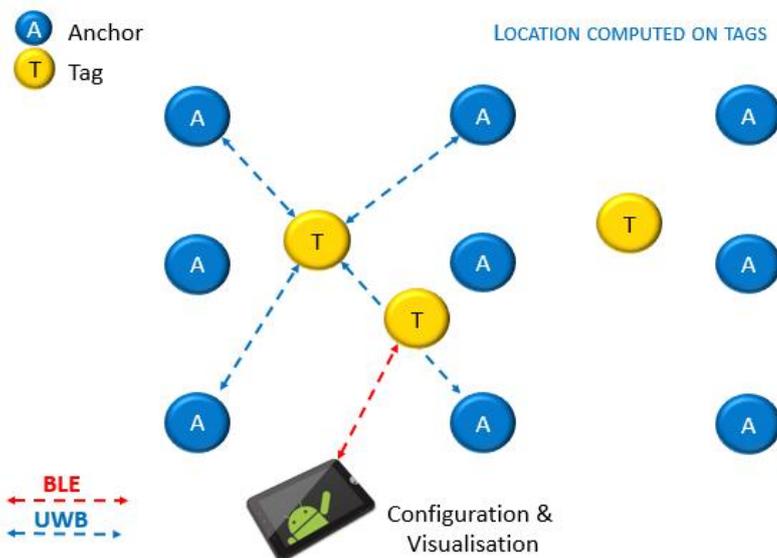




Evaluation and development kit based on DWM1001

- Demonstrate accurate location and navigation with 12 configurable devices (anchors or tags) based on the Decawave DWM1001 module
- Out-of-the-box wireless Real-Time Location System (RTLS) evaluation
- Quickly evaluate DWM1001 module capabilities
- APIs to customise the Firmware to your application
- Combine several kits to scale your RTLS network



Kit Contents

- 12 DWM1001-DEV boards configurable as anchors, tags or bridge node. (A DWM1001-DEV configured as bridge node and associated with a Raspberry Pi 3 model B will constitute a gateway)
- Plastic enclosures for all development boards
- USB cable for flashing and debugging (can also provide power via USB power supply or battery pack)
- Quick start guide, adhesive pads, right-angled USB connectors, coloured stickers

Software

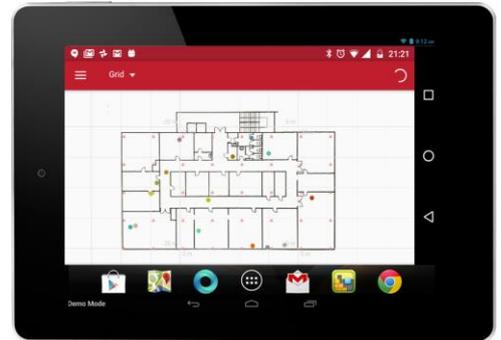
- Embedded Firmware binaries (tag, anchor, gateway)
- Mobile Application (requires a 6.0 or more recent Android device)
- Web client for network configuration and monitoring

Power Sources

- Units require 12 x batteries and / or USB power supplies (not included):
 - 3.7V RCR123a or 16340 Rechargeable battery. Note: overcharge protection not necessary
 - Anchors and tags can be powered from USB power supplies / battery packs for long duration tests

Example Evaluation Steps – Android Application

- Mount 4+ ‘anchor’ units on walls & use remainder as tags
- Discover and configure units with the Android application
- Upload a floorplan & visualise the tag locations on the screen
- Modify update rates directly from the Android application

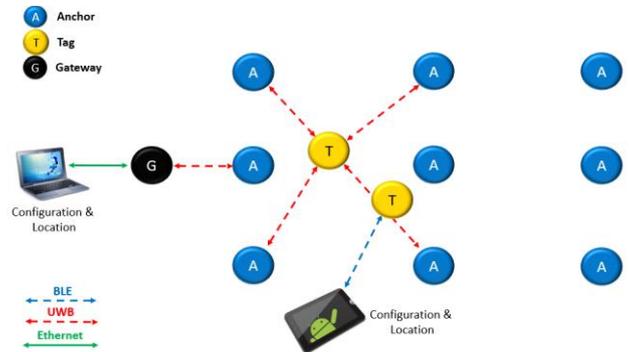
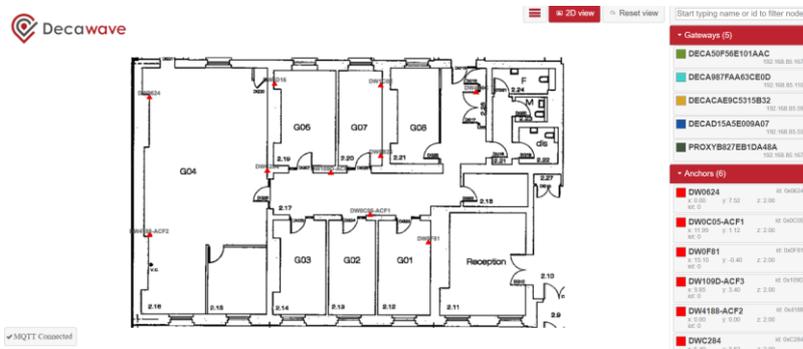


System Performance

- Maximum tag location rate: 10 Hz
- X-Y location accuracy: typically <10 cm
- Point to Point range: up to 60 m in Line-of-Sight conditions
- RTLS scheme range: 25 to 30 meters between anchors (4+) and tags
- Adaptive location rate using motion sensor activity enables longer battery life & higher tag density

Expand to a Centralised System

- Configure dev. board as a bridge node and assemble with a Raspberry PI 3 model B (not included) to form a Linux-based gateway
- View the location and configure the system on a PC using the location application



Get Started:

- Learn more about us:

www.decawave.com/product/mdek1001-deployment-kit/

Join the community:

www.decaforum.decawave.com

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The MDEK1001, as supplied from Decawave, has not been certified for use in any particular geographic region by any regulatory body governing radio emissions in such regions. Operation of the MDEK1001, or use of the MDEK1001 in the development of future devices, is at the discretion of the user and the user bears all responsibility for any compliance with regulations laid down by the authority governing radio emissions in the user’s jurisdiction.

FCC NOTICE: This kit is designed to allow (i) product developers to evaluate electronic components, circuitry, or software associated with the kit to determine whether to incorporate such items in a finished product and (ii) software developers to write software applications for use with the end product. This kit is not a finished product and when assembled may not be resold or otherwise marketed unless all required FCC equipment authorizations are first obtained. Operation is subject to the conditions that this device not cause harmful interference to licensed radio stations and that this device accept harmful interference. Unless the assembled kit is designed to operate under Part 15, Part 18 or Part 95 of the FCC Rules, the operator of the kit must operate under the authority of an FCC license holder or must secure an experimental authorization under Part 5 of the FCC Rules.