SONARDISTANCE

SonarDistance allows calculating the distance between nearby devices with an accuracy of +/- 10 cm. The user's smartphone broadcasts and receives a message from another smartphone in proximity using a combination of Bluetooth Low Energy (BLE) and ultrasound signals. Once the 2 smartphones discovered each other, the calculation time is around 10 seconds. The distance measurement between the devices in close range is performed by ultrasounds, thus confirming the absence of physical barriers such as walls, doors or windows.

Challenges solved by
SONARDISTANCE

- Cross platform software
- High-accuracy distance measurement
- Respect physical barriers
- Fast detection
- Online / Offline alternatives
- Blockchain compatible
- More affordable

This solution is empowered by CopSonic, a patented communication technology which allows any smart device to interact and transmit data over ultrasounds. Distributed as an SDK, this technology is available for all smartphones (Android, iOS). The devices just use their existing speakers and microphones. This product also offers offline alternatives: no data connection required.
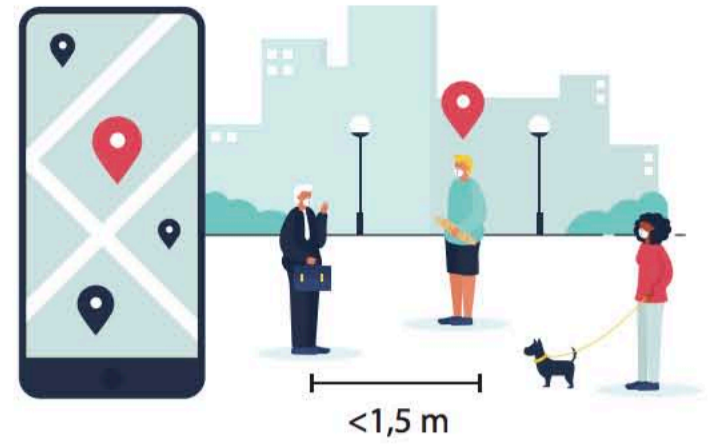
CopSonic
UltraSonic Connectivity

How does SonarDistance works?

1 The SonarDistance App broadcasts a BLE signal to indicate its presence to all nearby devices. At the same time, it scans the area for other devices.

2 Once they discovered each other, the smart devices are synchronized to start the measurement process using ultrasound signals.

3 The App shows the ephemeral ID of all detected devices and their distance. Devices located within the pre-defined 'danger range' are shown in red.

<1,5 m

The SonarDistance App has been developed to illustrate CopSonic's capacity to measure the distance between devices and warn people if they get too close. This logic can be developed using the CopSonic SDK or provided as a white label solution. The nature of the warning will depend on the aimed user experience (notification, buzz, sound...).

The current demo does not generate a log of all device IDs met during the user's journey for tracing purposes. This can be implemented in compliance with local regulations for the protection of private data. SonarDistance can be combined with blockchain technologies as to safely store contacts and manage feedback notifications when necessary.

POWERED BY

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UltraSonic Connectivity

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