

## **RTTR (access control)** UWB based indoor / outdoor real-time access control system

http://rtls-labs.minlarc.com/

# **Product / Service description**

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RTTR (access control) is hardware and software platform for distance-driven biometric access control solutions with wide customization and integration capabilities.

RTTR provides:

- Biometric proximity based access control
- cm precision distance measurement between key and lock
- Multiple key types
- Bi-directional messaging between keys and locks

### System components

**Lock** – electronic board inside the door with UWB transceiver and interface to electro-mechanical parts of the door physical lock. It may also has a connectivity options via WiFi, Bluetooth, Ethernet or mobile 3G/4G/5G networks.

**Key** – Personal small and lightweight electronics device with UWB transceiver and optional biometric readers (fingerprint sensors, voice or face recognition, etc.) with capability to precisely measure the distance to the lock and execute open/close functions only in the direct proximity to the lock.

**Command / Management center (Optional)** – application specific software for key personalization, biometric enrollment, display real-time status and logging of the lock-key interaction.

# **Multiple key options**



#### Biometric keyfobs





#### Wristbands





#### Lanyards





## **Access control. Operation principles.**



- 1. Lock electronics is installed inside the door or in any other desired location and powered from constant power supply (battery or mains).
- 2. Key owner scans the finger on the fingerprint sensor (that is a part of the key).
- 3. Key delivers fingerprint data over UWB to the lock. At the same time lock measures the precise distance to the key.
- 4. If key owner is allowed to access the restricted area open/close message is sent to the door lock controller or any other access control mechanism.
- 5. Lock may optionally send the open/close event data to command center.

### Access control.



**RTLS LABS**