

CROWNSTONE

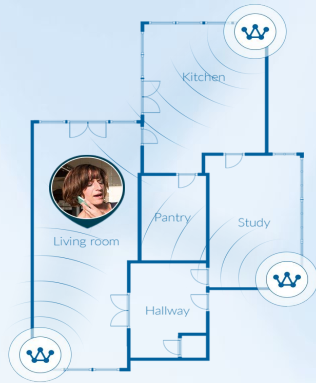
Electronic Products for Real Estate Developers

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<https://www.crownstone.rocks>

Our buildings do **not know where** we are...

How can they then respond to our needs or be cost and energy efficient!?



Indoor positioning will be bigger than outdoor (GPS)

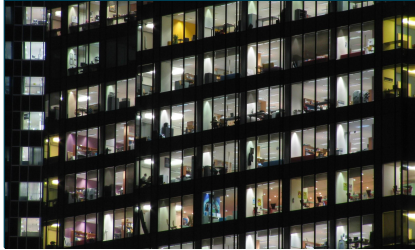


There will be more smart outlet IoT chips than smartphones

home
automation



building
automation



flexible
working



indoor localization

Residential Real Estate



A smart home responds to you!

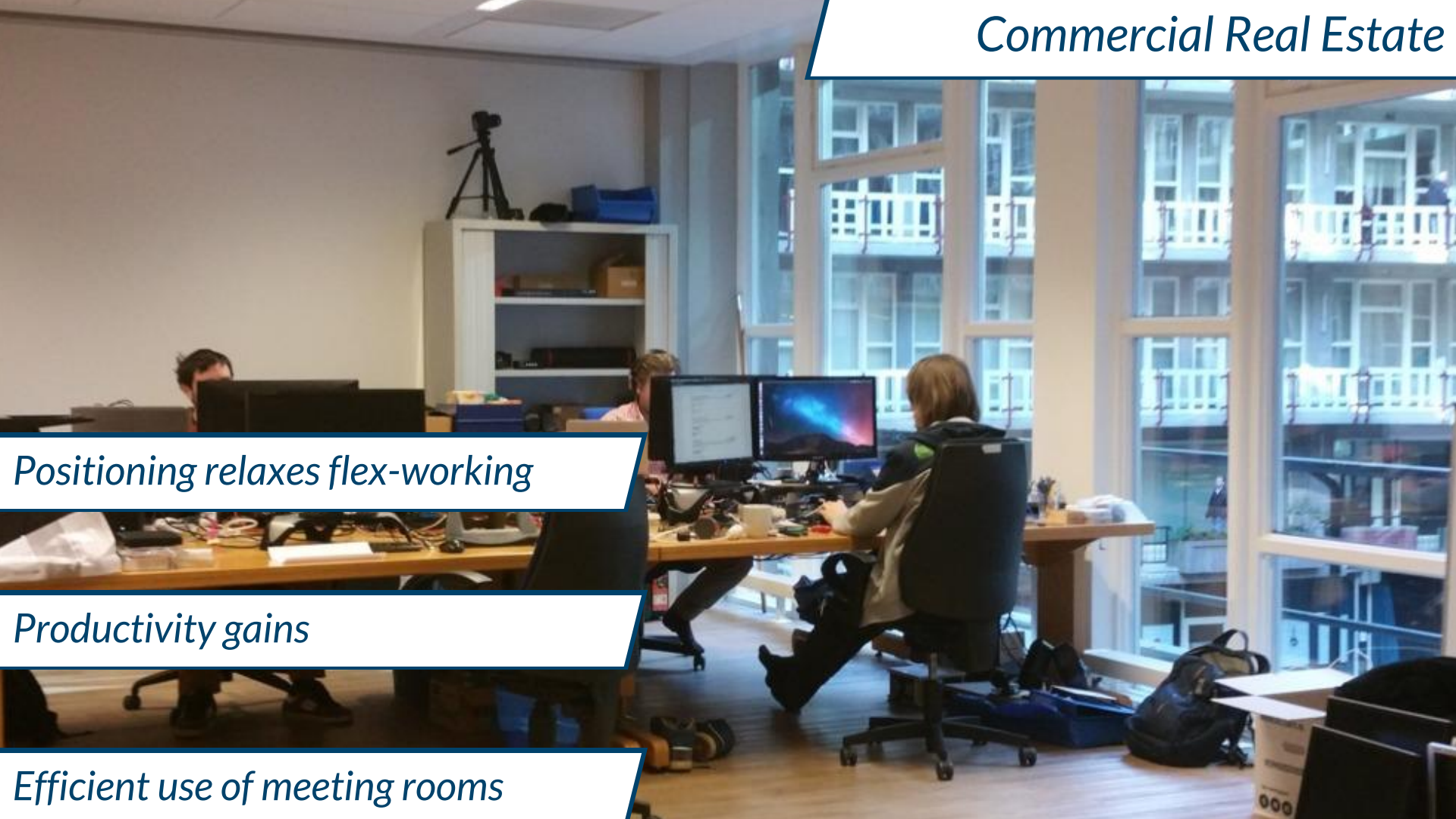
Sustainable, pays itself back

Cheaper and better than cables

A smart office responds to you!

Sustainable, presence-driven HVAC

Preventive maintenance

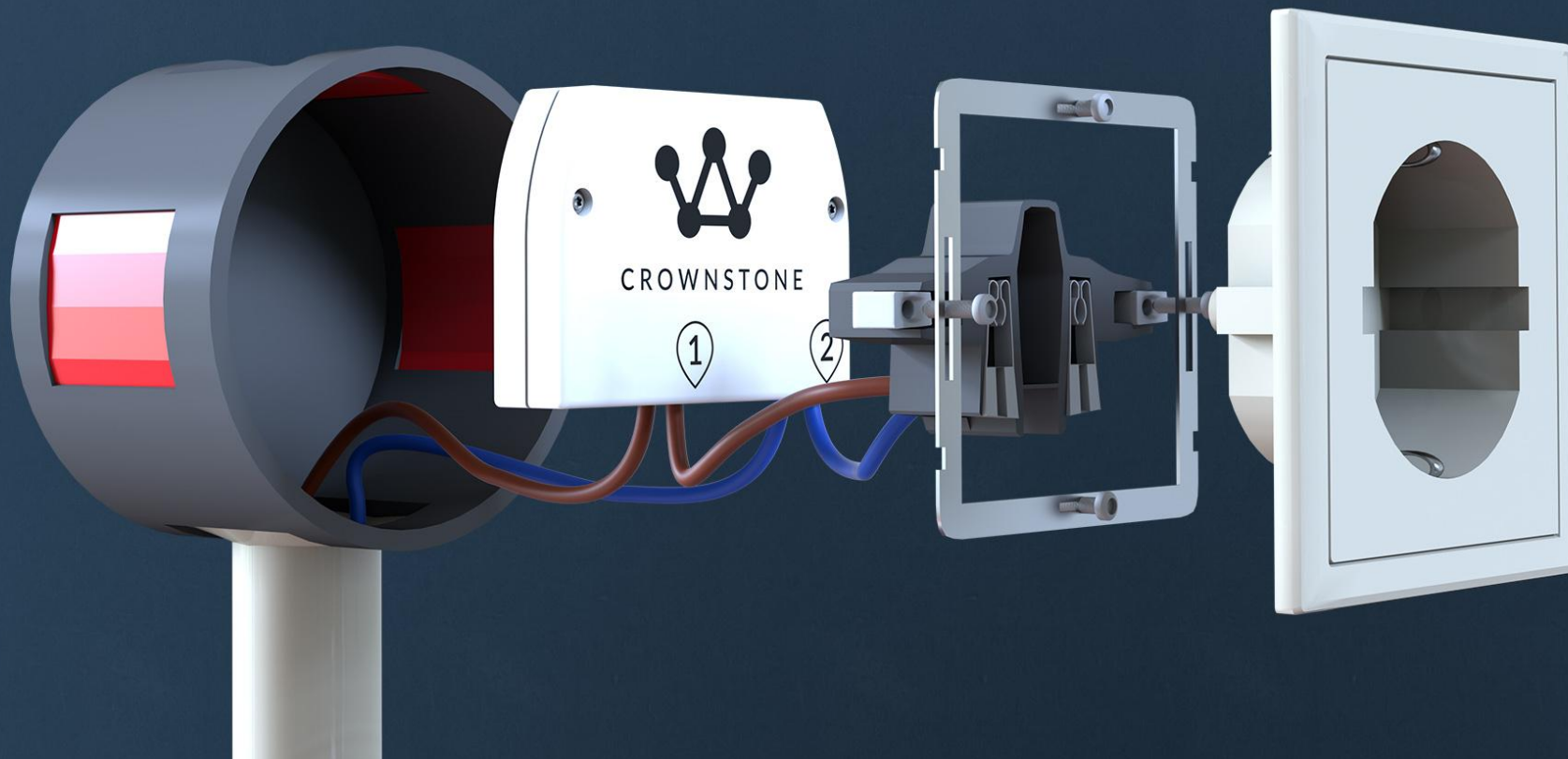


Positioning relaxes flex-working

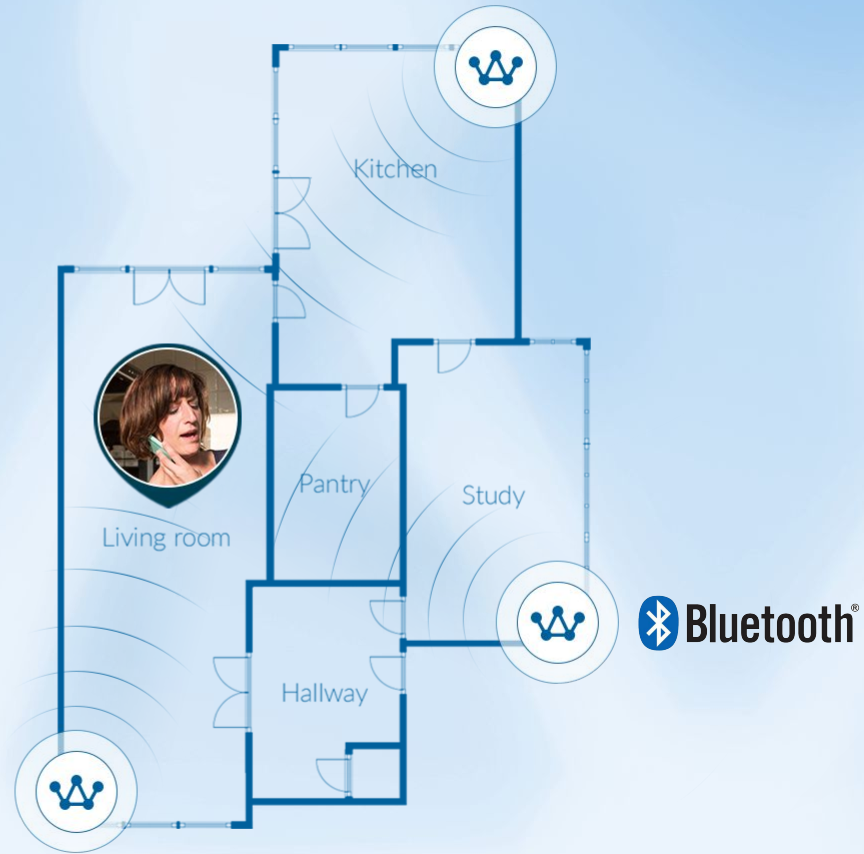
Productivity gains

Efficient use of meeting rooms

Indoor positioning and automation



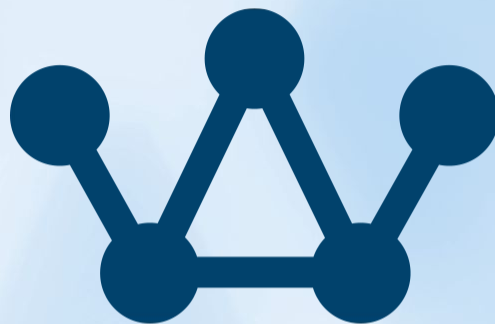
Integrate iBeacons in outlets



In mass production! Don't be shy.



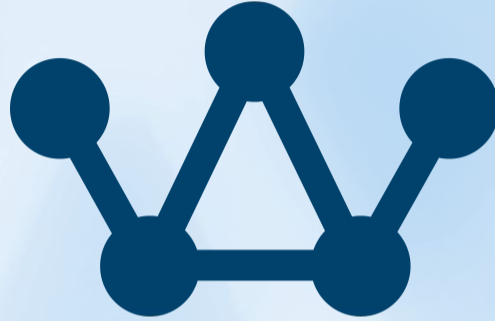
Available online / via distributors



C R O W N S T O N E

Let's sign a contract at Provada!!

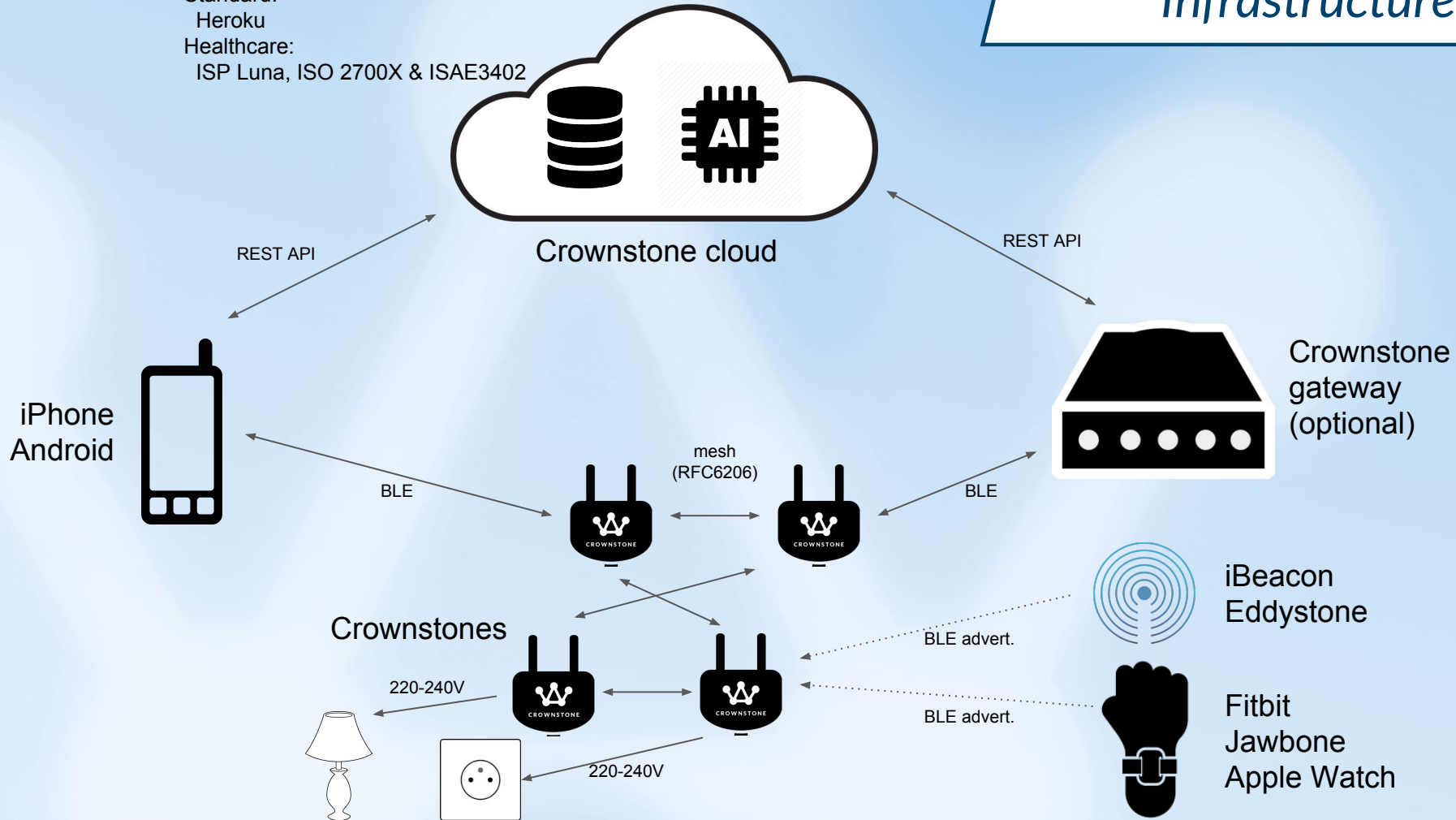
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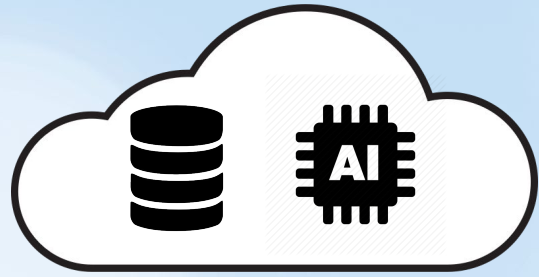


C R O W N S T O N E

Frequently Asked Questions
[in following section]

Standard:
Heroku
Healthcare:
ISP Luna, ISO 2700X & ISAE3402





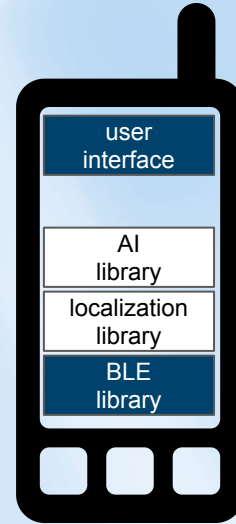
Crownstone cloud


REST API



3rd party

iPhone
Android



 open-source

possibilities

- own application
- integration in own app
- different user interface
- different localization lib
- different or no AI
- own cloud solution
- own premises

Crownstone or
Guidestone

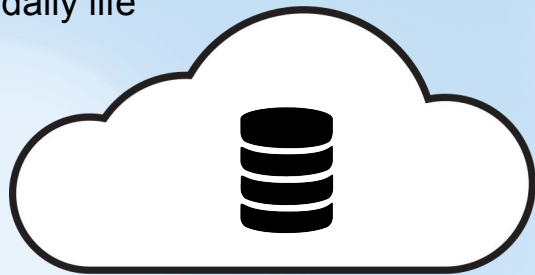


BLE

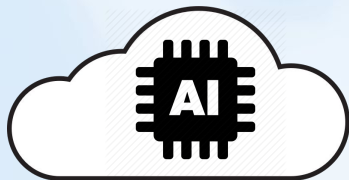
firmware integration with
3rd party products



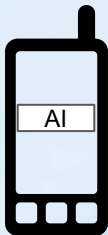
Use info on when is what used
for recognition of activities of
daily life



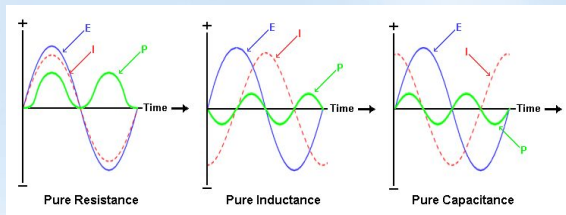
REST API



Random committee classifier



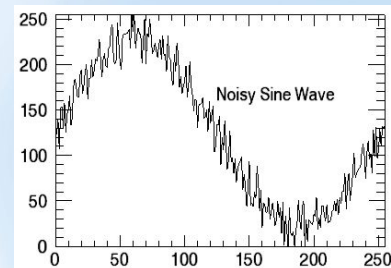
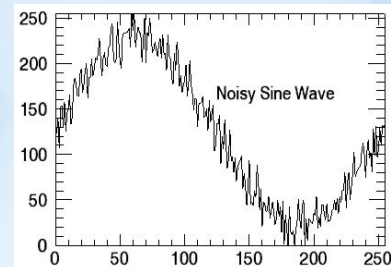
Use basic information on
time-of-day, power
consumption and apparent
power (phase info)

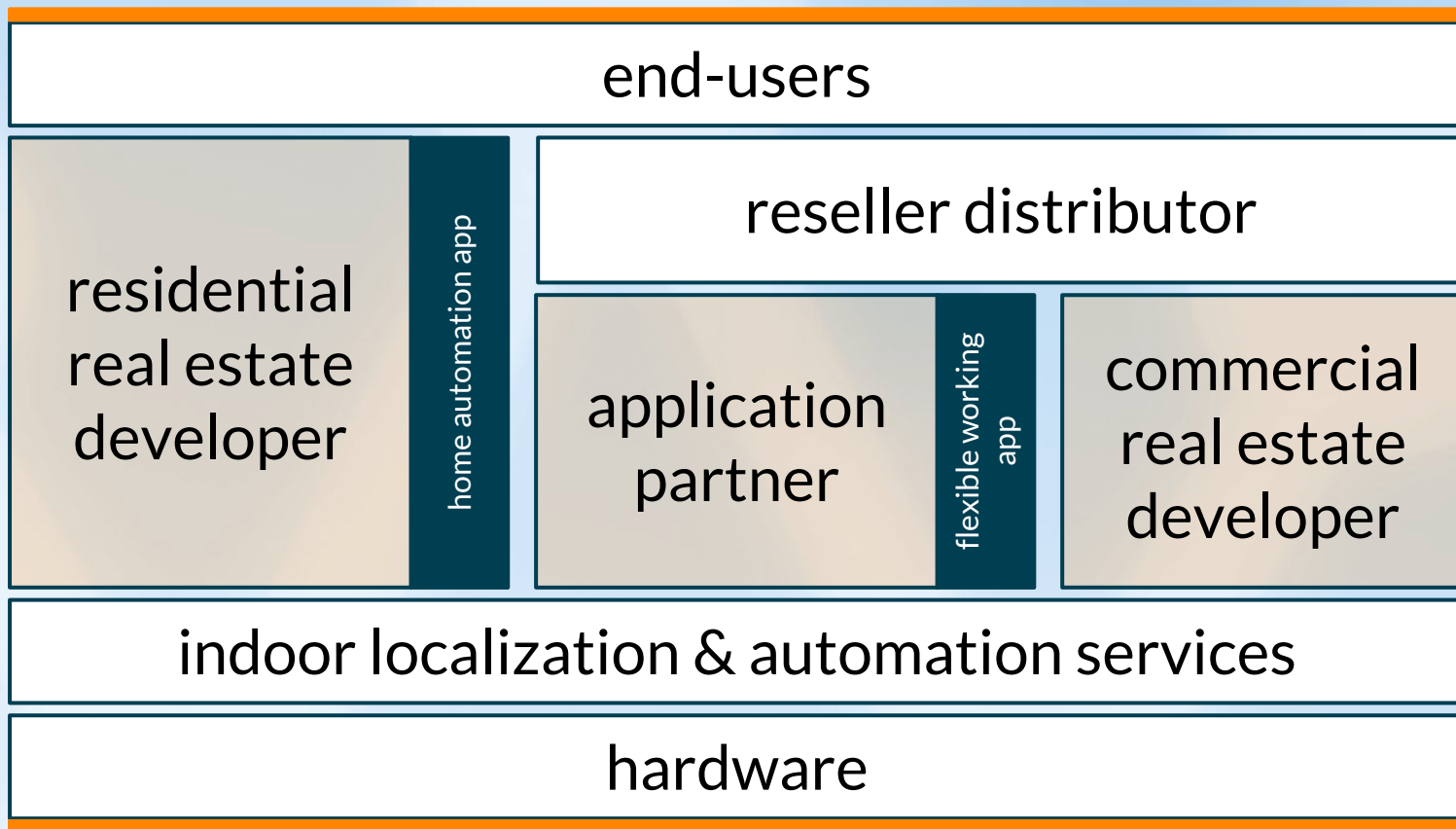


Device identification



Use fine-granular
"fingerprints" at 2kHz on
the Crownstone for
current and voltage





Technical Specifications

Property	Specification
Switch devices	Up to full 16A (domestic use)
Dim lights	LEDs on 240V or incandescent light bulbs
Measure	Both current and voltage, up to a frequency of 2kHz
Overview	Energy usage monitoring per minute till per year
Timer function	Timer functionality and wake-up light functionality
Communication	Bluetooth Low Energy (BLE) 4.0 and up
Tracks	Smartphones, smartwatches, fitness bands, iBeacons
Presence detection	Requires 4 Crownstones "in sight"
Tracking accuracy	1.5-4.0 meter
Maximum range	20-70 meter
Network	Mesh network connects Crownstone-to-Crownstone
Chipset	Nordic nRF52, 64 kB RAM
Beacon function	iBeacon/Eddystone
Battery	Not required!
Soft-fuse function	Limit extreme currents
Temperature fuse	Switch off with extreme temperatures
Dimensions built-in	55x37x15mm (LxWxH)
Dimensions plug	Sockets type C, E, F (Europe, Russia, South-America)
Open-source	Open-source (github)
Mobile phones	Consumer app: iOS and Android
Mobile libraries	Native: iOS and Android