

DANIELLE DI BELLA

TECHNICOLOR LTD.

Danielle specializes in Apple products and technologies. She holds Apple's highest level in the IT track of the Certification Programs, and is an Apple Certified Trainer & Consultant. Danielle has a proven track record with a wide range of business and personal clients including: Tech Data, Amsys, Mario Testino, Abercrombie & Fitch and Boston University. In particular, Danielle specializes in solutions for businesses looking to integrate Apple technologies including advice, planning, deployment and maintenance for Apple equipment and networks.

IOT & HOME AUTOMATION

WHAT YOU NEED TO KNOW

THE SMART HOME

IOT & HOME AUTOMATION

THE SMART HOME

IOT & HOME AUTOMATION



AGENDA

IOT & HOME AUTOMATION



SIGNALLING TECHNOLOGIES : X10

IOT & HOME AUTOMATION

- **PIONEERING TECHNOLOGY** 1975
- **POWERLINE** wired into the walls
- **SLOW** bursts of 120 kHz RF signal to responders
- **LOW RELIABILITY** sensitive to line noise
- **SECURITY** no encryption
- **UPB** based on X10



SIGNALLING TECHNOLOGIES : INSTEON

IOT & HOME AUTOMATION

- **COMPATIBILITY** X10, not an open standard
- **DUAL BAND** radio-frequency and powerline
- **RELIABLE** simulcast, scalable
- **FAST** 2880-38400 bps
- **EASY SETUP** Statelink
- **CONSUMER** Hub and Hub Pro

I N S T E  N[®]

SIGNALLING TECHNOLOGIES : LUTRON

IOT & HOME AUTOMATION

- **PROPRIETARY PROTOCOL**
- **50+** years of innovation
- **15,000** products
- **ADVANCED LIGHTING**
- **WINDOW SHADE CONTORL**
- **CONSUMER** Lutron Caséta Wireless Smart Bridge



THE PROTOCOLS : ZIGBEE

IOT & HOME AUTOMATION

- **PURE WIRELESS** 802.15.4 IEEE, RF signaling/control
- **OPEN STANDARD** for hobbyists
- **MEMBERSHIP CONFLICT** fee to the ZigBee Alliance
- **COMMERCIAL/UTILITY INDUSTRIES** few in HA
- **MORE EXPENSIVE** than Insteon and Z-wave
- **CONSUMER** Crestron and Control4



THE PROTOCOLS : Z-WAVE

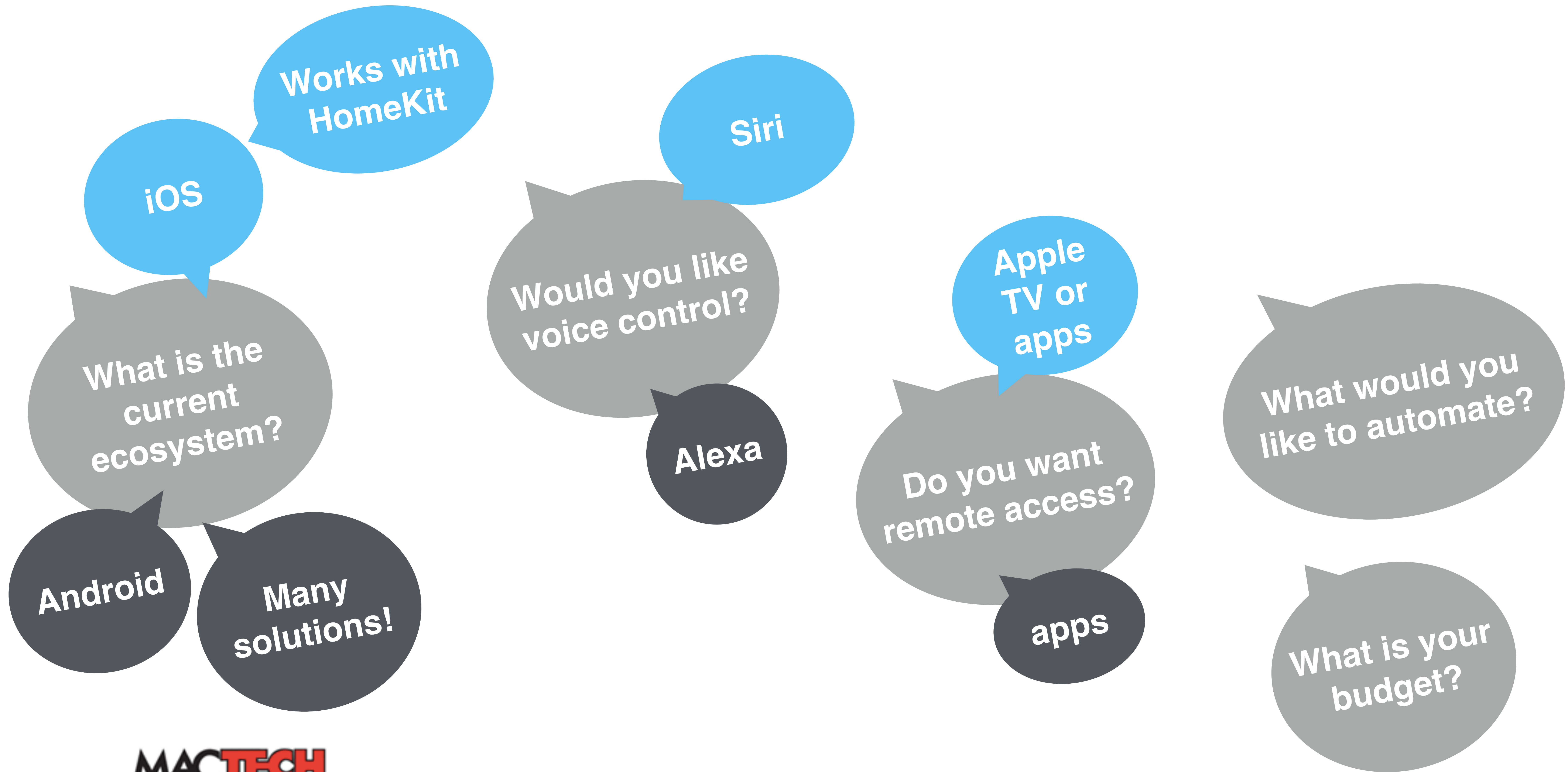
IOT & HOME AUTOMATION

- **PURE WIRELESS** RF signaling/control
- **BASED ON ZIGBEE** more simple, less expensive
- **NETWORK CONTROLLER** hub, setup and manage network
- **NETWORK SIZE** 232 nodes, but 30-40 ideal
- **LOW POWER** good for battery power
- **CONSUMER** SmartThings, Wink



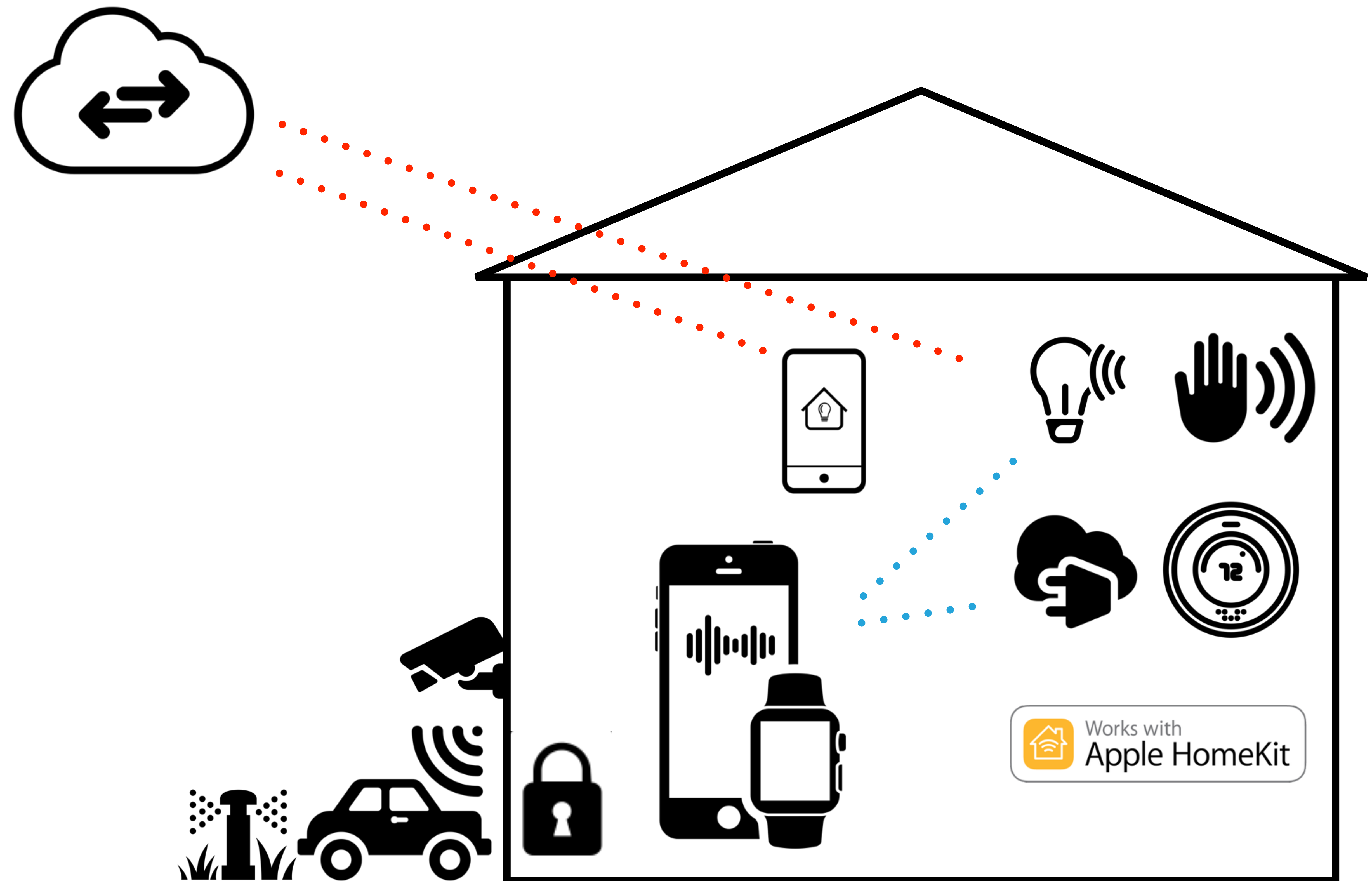
THE PLATFORMS

IOT & HOME AUTOMATION



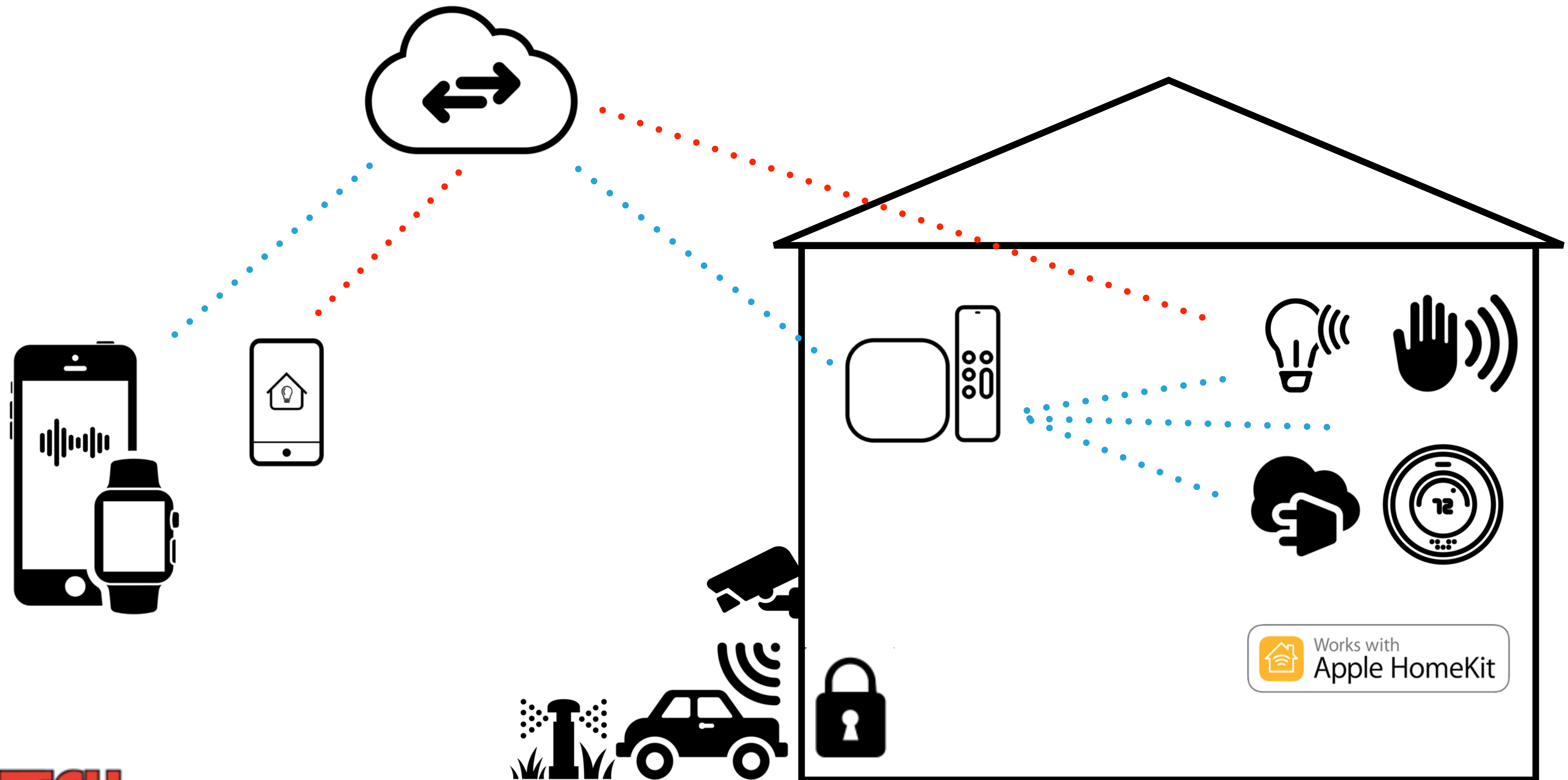
THE SOLUTION 1 : HOMEKIT

IOT & HOME AUTOMATION



THE SOLUTION 1 : HOMEKIT WITH REMOTE ACCESS

IOT & HOME AUTOMATION

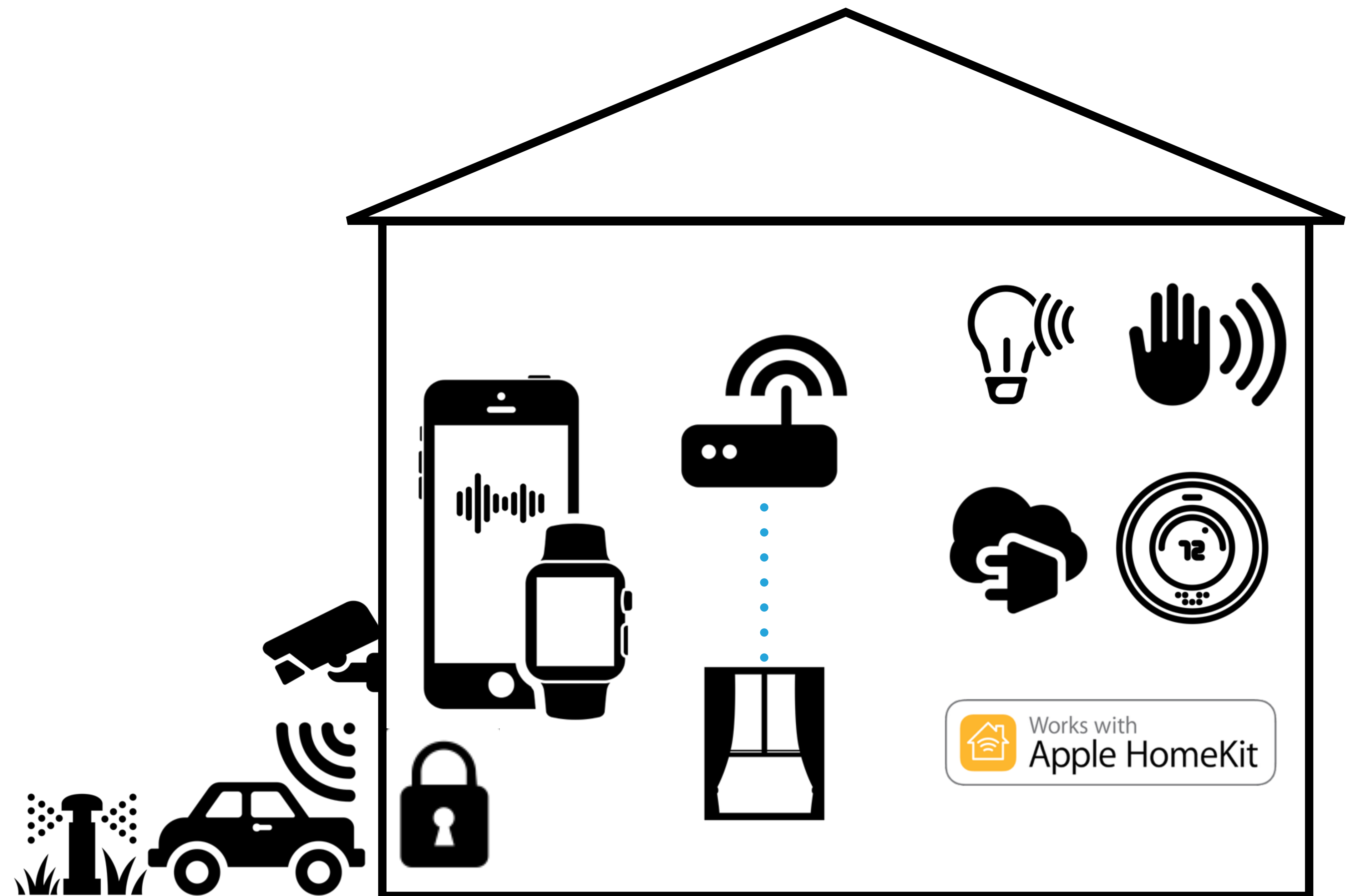


THE SOLUTION 1 : HOMEKIT WITH OTHER SIGNALING TECHNOLOGIES

IOT & HOME AUTOMATION

INSTEON®
LUTRON®

MACTECH
PRO EVENTS



THE PLATFORMS : HOMEKIT

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- **HOMEKIT COMPATIBLE APPS**
- **SETUP CODE STICKER** use app and scan
- **CLASSIFICATION OPTIONS** in each app
- **COMMON DATABASE**
a home, room, accessory, function, setting must have its own name



THE PLATFORMS : HOMEKIT

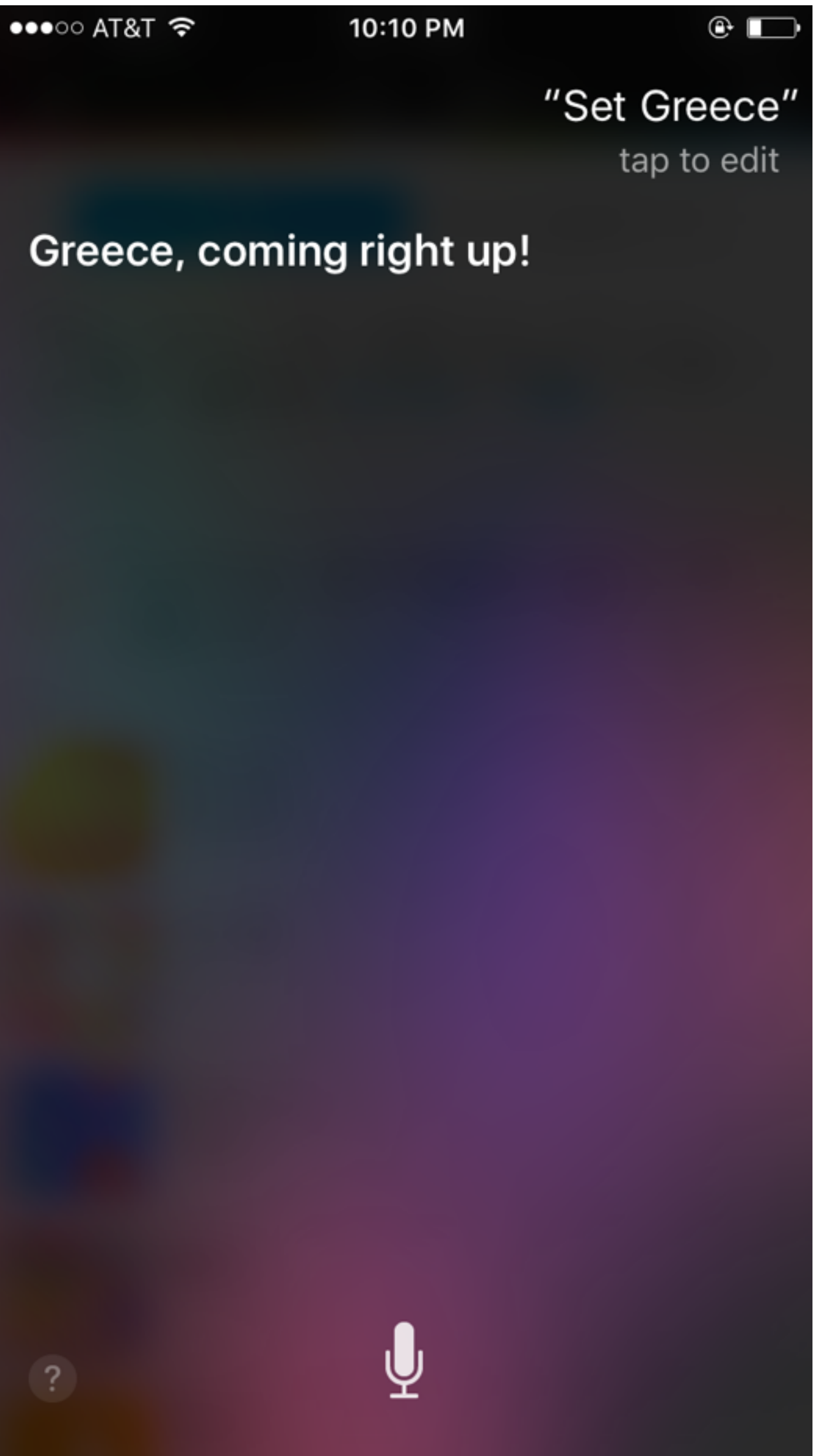
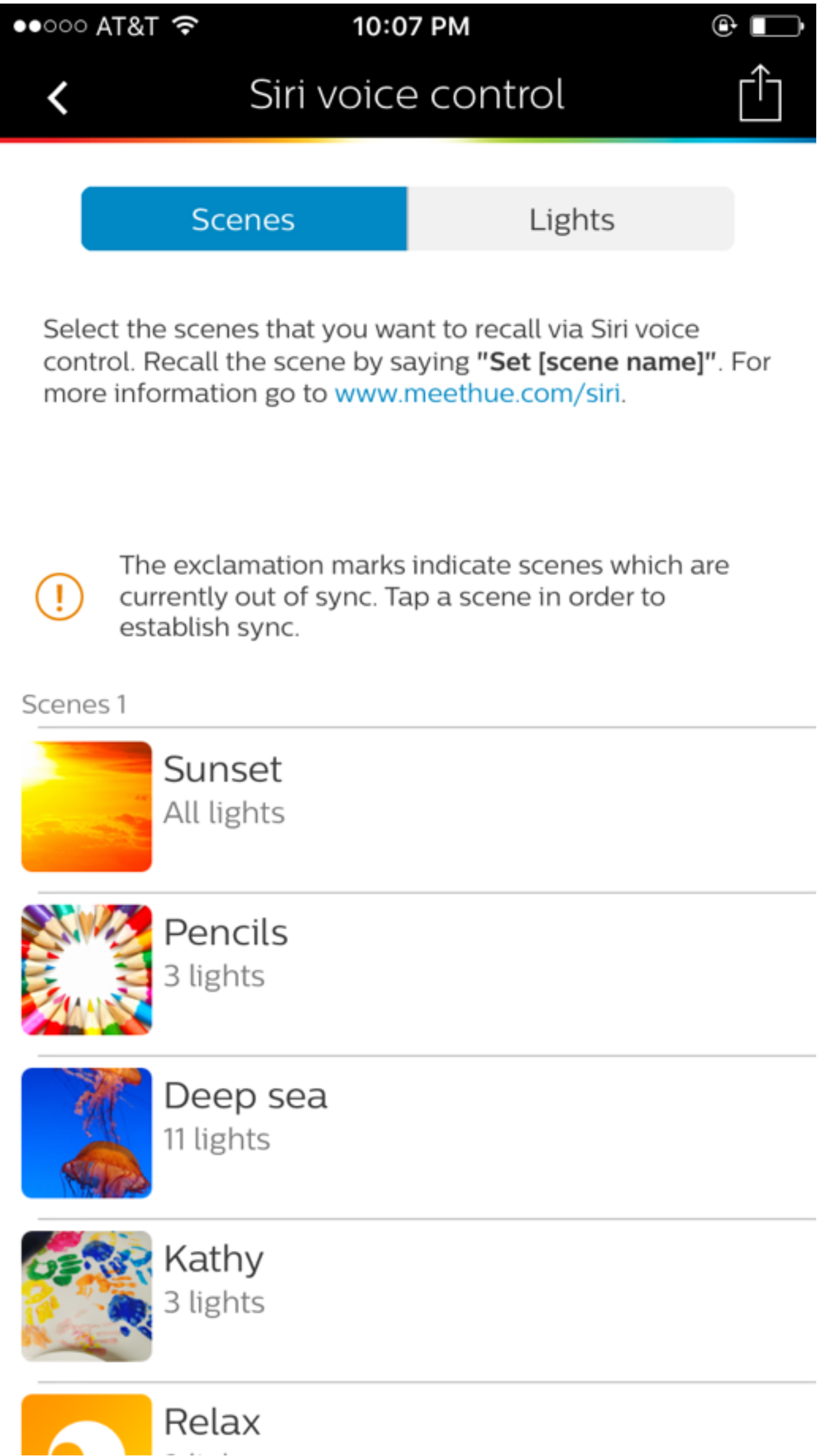
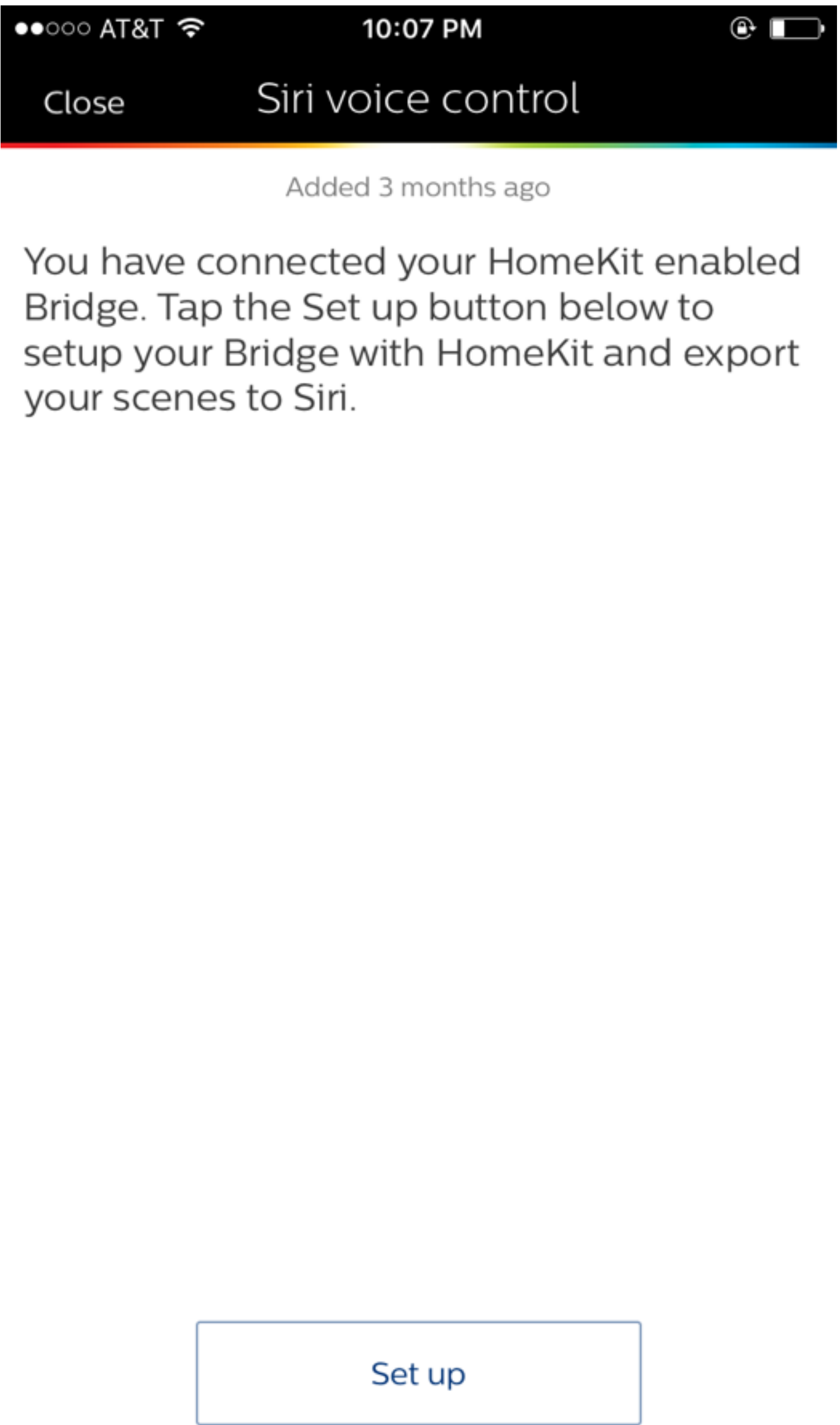
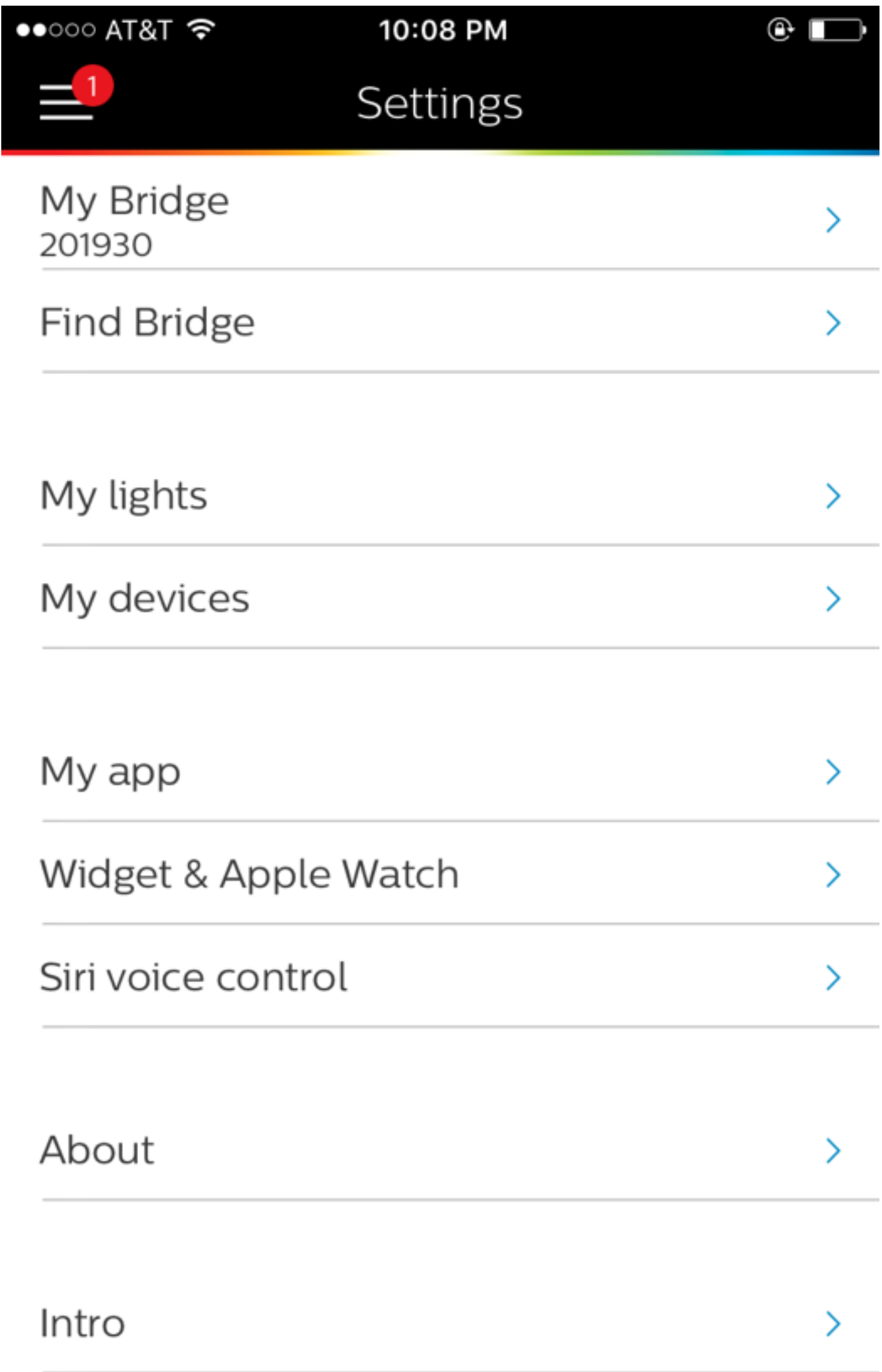
IOT & HOME AUTOMATION

- HOMES
- ROOMS
- ZONES
- SCENES
- TRIGGERS



THE PLATFORMS : HOMEKIT PLUS PHILIPS HUE

IOT & HOME AUTOMATION



THE PLATFORMS : HOMEKIT PLUS ELGATO EVE

IOT & HOME AUTOMATION

eve door & window



Open/Closed State

eve weather



Temperature



Humidity



Air Pressure

eve room



Air Quality



Temperature



Humidity



Consumption



Switch On/Off



Gain Insights

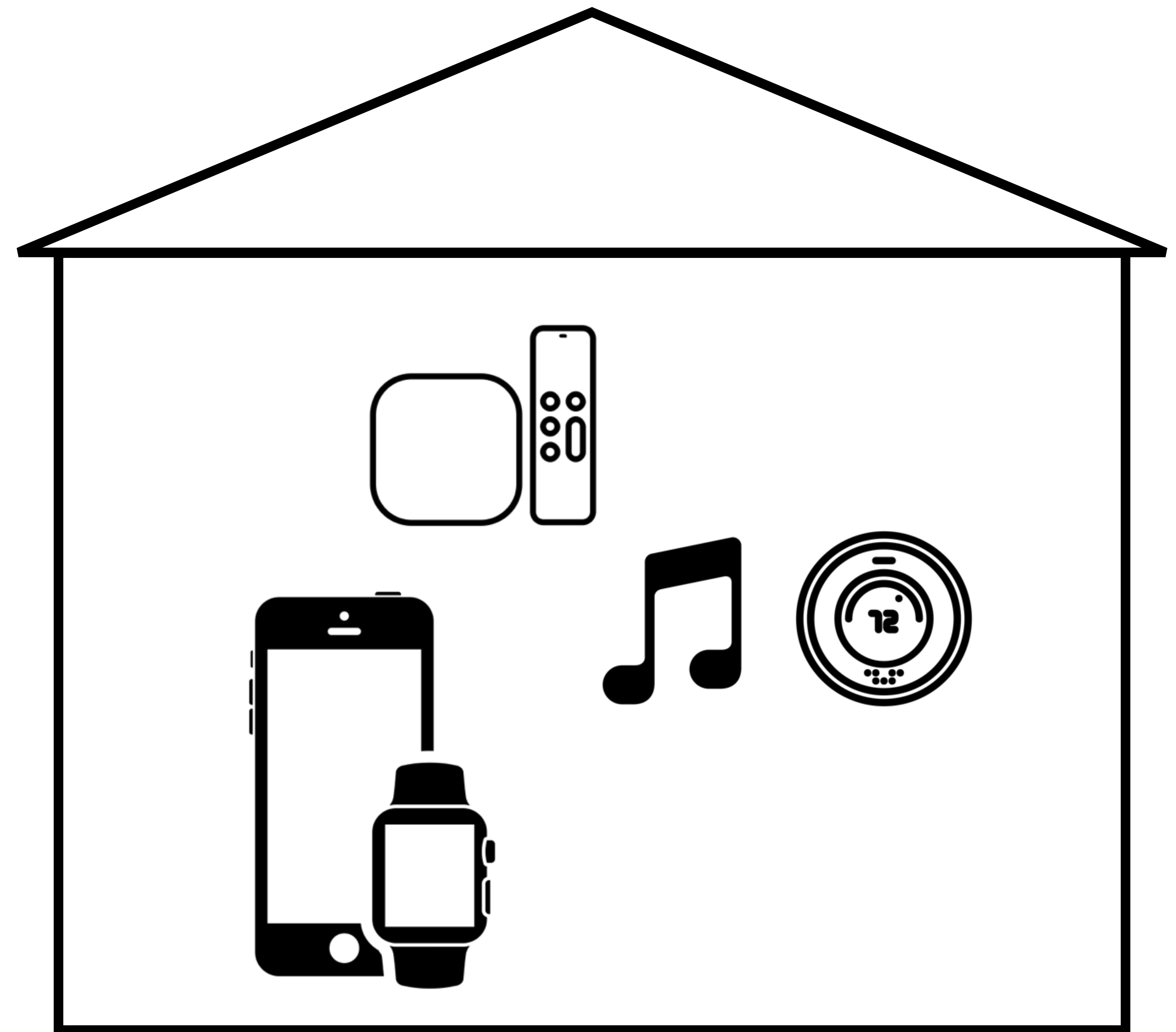
eve energy



BRIDGES BETWEEN PLATFORMS

IOT & HOME AUTOMATION

- **HOMEBRIDGE** Nest, Smartthings, Sonos
- **APPS** Indigo, manufacturer specific
- **IFTTT** recipes as triggers



THE PLATFORMS : GOOGLE

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- **WEAVE** Linus Lock
- **BRILLO OS** Android-based for smart home devices
- **NEST** Nest Weave (proprietary protocol) app, cameras, thermostats and detectors
- **OnHub** more than a router
- **COMPATIBLE SMART TECH** Mercedes Benz



THE PLATFORMS : NON - HOMEKIT

IOT & HOME AUTOMATION

wink

or

wemo

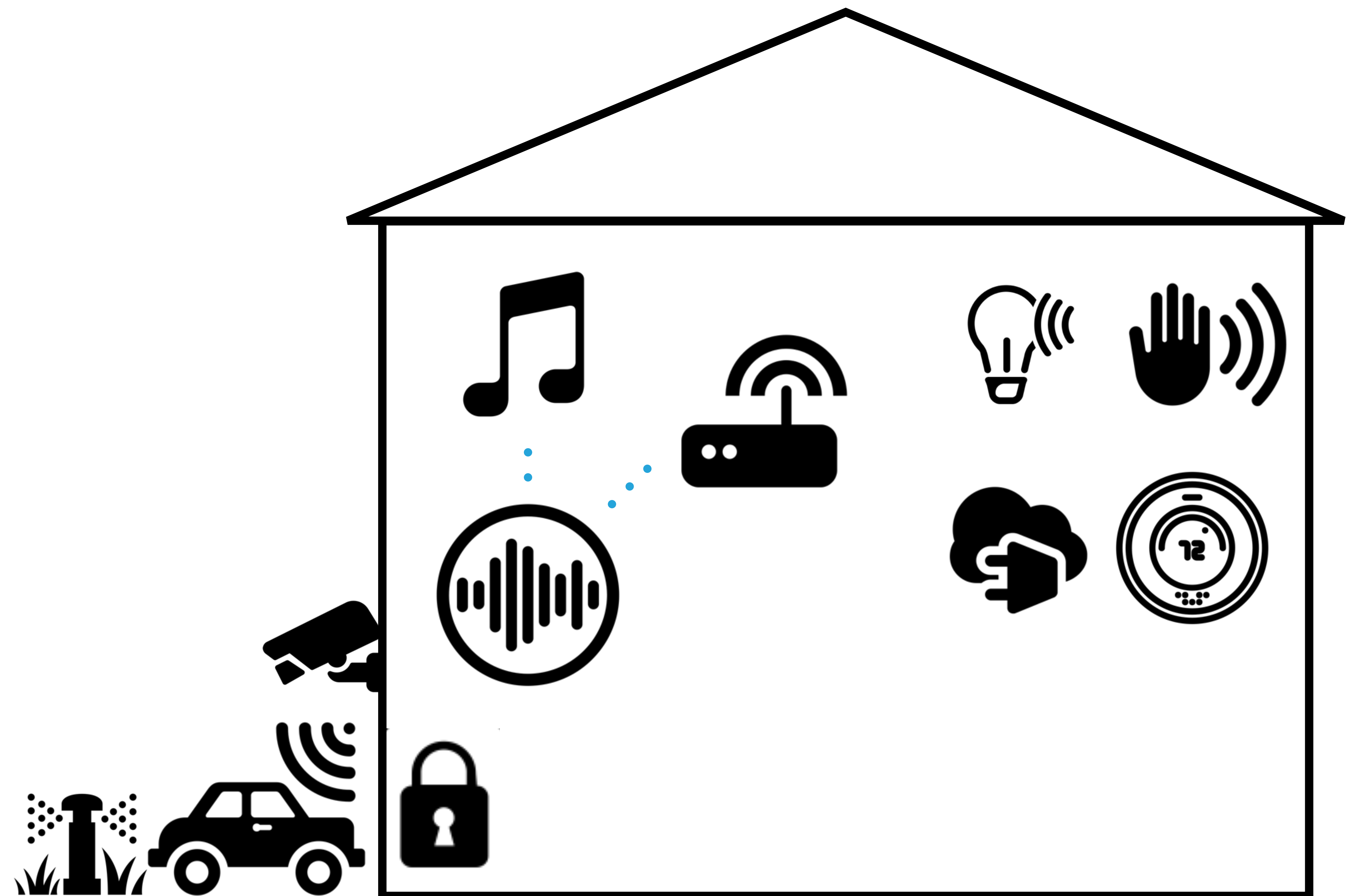
or

 SAMSUNG
SmartThings™

and

amazon echo

MACTECH
PRO EVENTS



THE SOLUTIONS : AMAZON

IOT & HOME AUTOMATION

- VOICE RECOGNITION SPEAKER
- INTEGRATION
- INDEPENDENT OF PHONE
- CENTRAL SYSTEM
- GROWING ECO SYSTEM



THE SOLUTIONS

IOT & HOME AUTOMATION

- INTEGRATORS
- ZIGBEE & ZWAVE
- AUTHORIZED DEALERS
- FULL SOLUTIONS
- EXPENSIVE



RETAILER NETWORKS

IOT & HOME AUTOMATION

- **APPLE** Philips Hue Bridge, Lutron
- **AMAZON** Echo, SmartThings, Wink Hub
- **HOME DEPOT** Lutron
- **INTEGRATORS** Control 4, Crestron

GOING FORWARD

IOT & HOME AUTOMATION

- HOMEKIT
- GOOGLE
- AMAZON & SONOS
- SAMSUNG
- A RACE TO HORIZONTAL INTEGRATION

IOT & HOME AUTOMATION

Q&A and your success stories

Danielle DiBella

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