

Wi-Fi e IoT para Smart Cities

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The Transformation: Wi-Fi



Wi-Fi



The Transformation: Wi-Fi \Rightarrow Converged Access Network Solutions



Wi-Fi



Ethernet



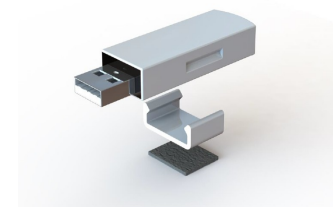
Wi-Fi



LTE
(3.5 GHz)

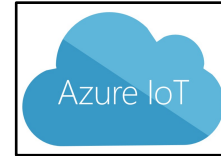


IoT



Any Network Profile. Plug-n-Play Deployment. Carrier-Grade Security.

Complexity Of The IoT Market Is Overwhelming ...



PLATFORM / SERVICES



MIDDLEWARE

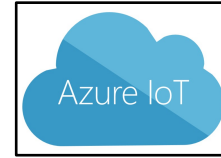
NETWORK



DEVICES / ENDPOINTS



Complexity Of The IoT Market Is Overwhelming ...



PLATFORM / SERVICES



MIDDLEWARE



NETWORK



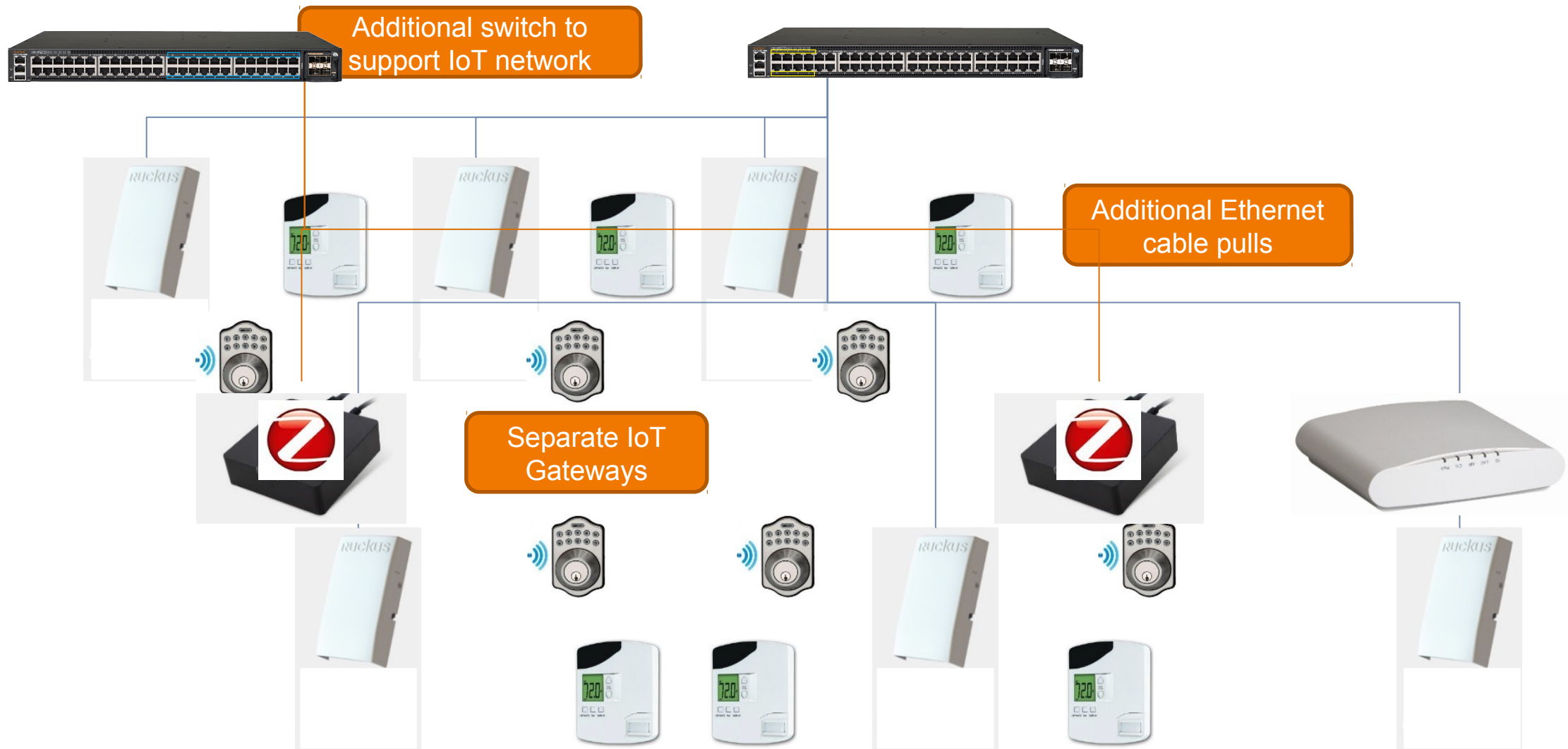
Your connected home begins here.



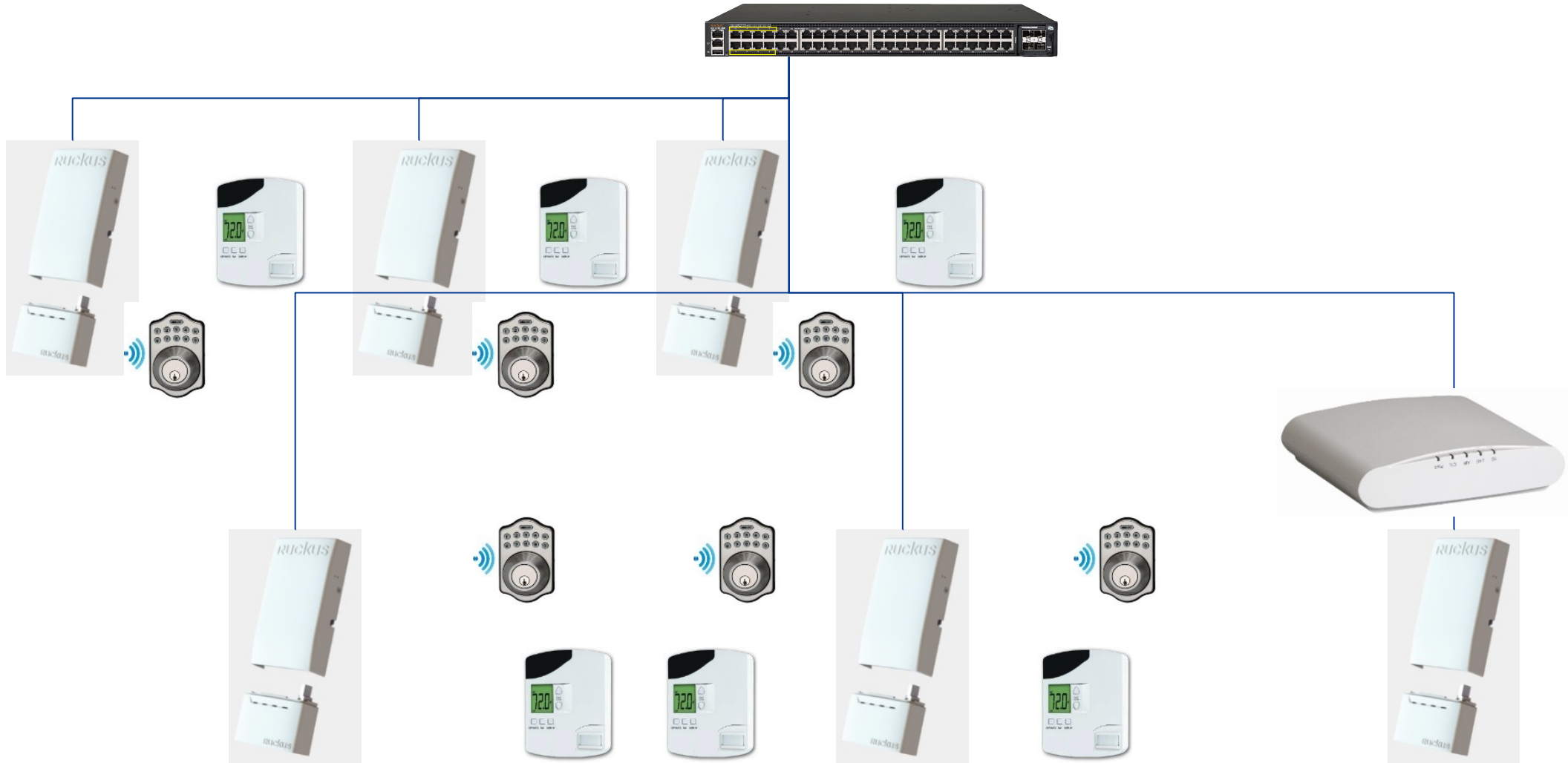
DEVICES / ENDPOINTS

But Ruckus provides integrated solutions to enable the enterprise ...

The State of the Union for IoT



The Ruckus IoT Value Added



Problems with Current Approaches

Focus on end points & platform services

- Lack of well integrated solutions

Use purpose-built IoT Gateways \Rightarrow expensive proprietary installs

- Infrastructure cost overheads

Work in closed ecosystems and are not scalable

- Upgrades, extensibility are issues

Cumbersome supply chain \Rightarrow manageability issues

- IoT integrators are different from partners that provide Wi-Fi access



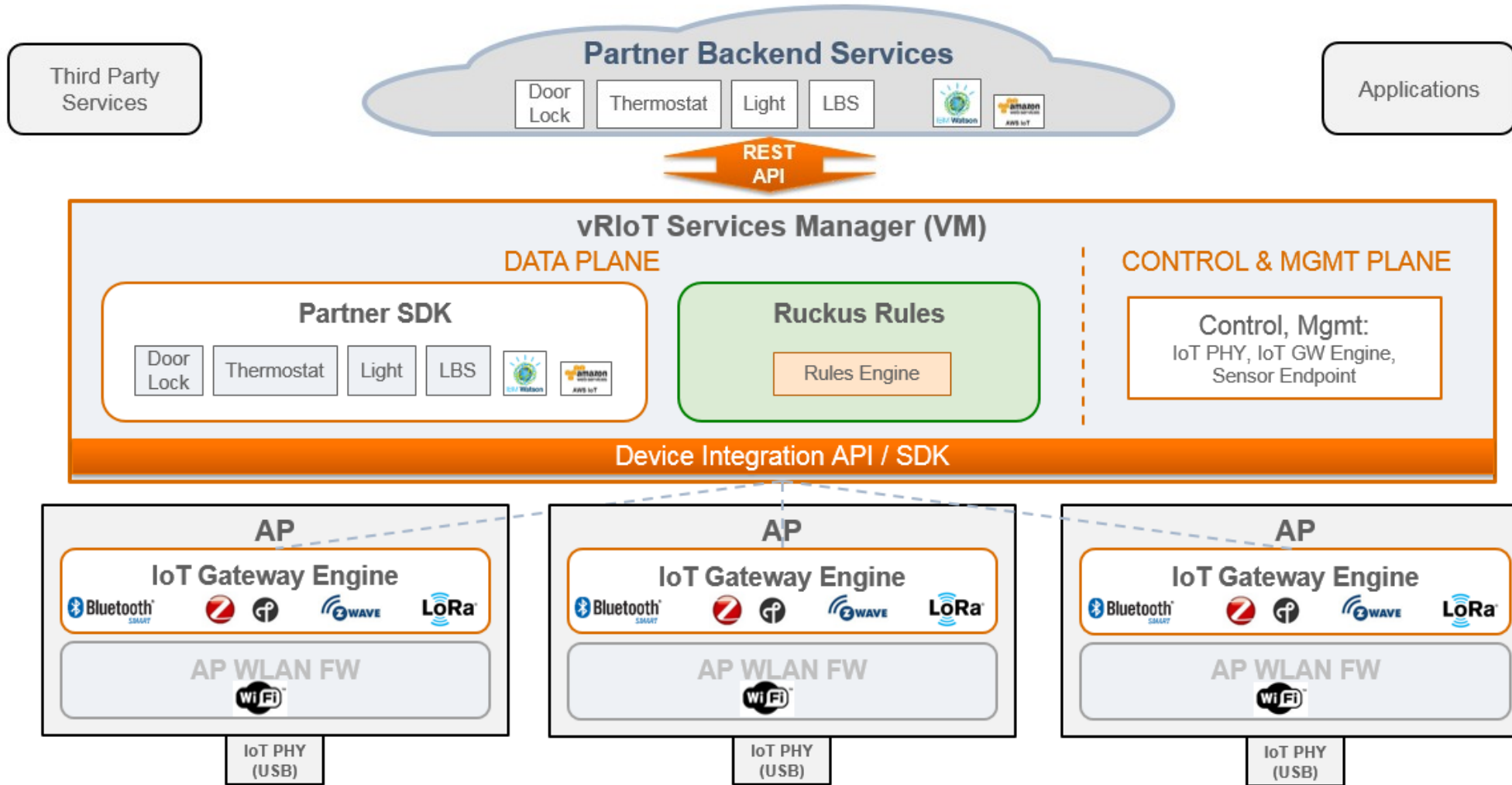
The Ruckus IoT Value

Value	Enables
Additional Cost of Redundant Infrastructure with 3 rd Party Gateway	~\$40 / Room
Potential Cost with Ruckus	\$16 / Room
Unified Network with Trusted Infrastructure	Eliminate additional disparate networks that clutter the spectrum
Data Usability	Break data silos across multiple smart-appliance systems
Upgrades	Adding on service to existing architecture easier
Vendor Management	1 Solution Integrator can be primary touch point
Enterprise Class Features	Enterprise-grade management of multiple gateways and sensors

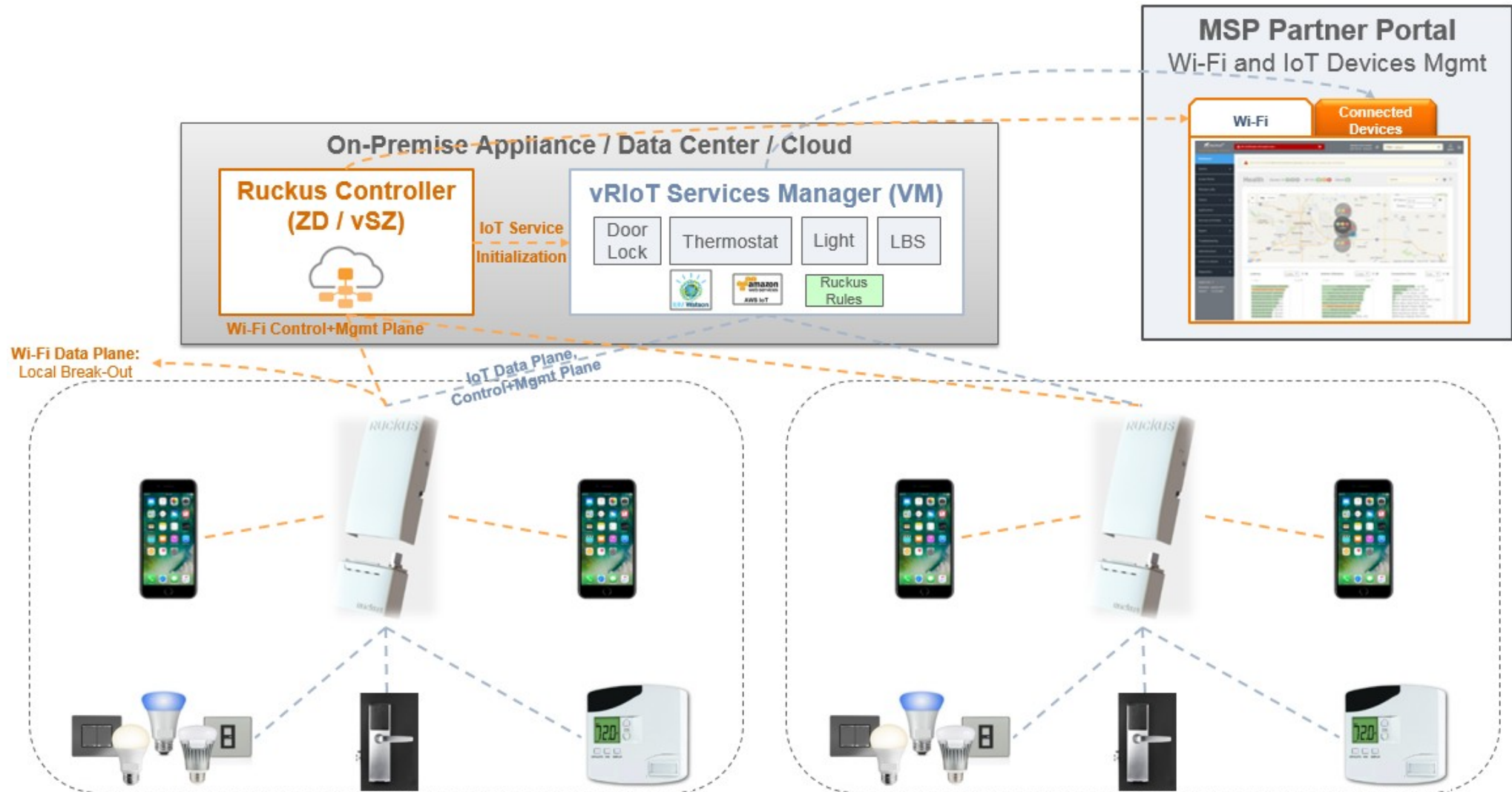
Ruckus ideally placed to offer cost-effective IoT with single infrastructure



Ruckus IoT: Solution Architecture



Introducing Ruckus IoT: Solution Overview



Differentiating with Ruckus IoT

SINGLE ACCESS NETWORK FOR WI-FI & IoT



Manage network across different PHYs

Sensor-to-backend management

Distributed decision-making (edge vs. backend)

TRANSPORT PROTOCOL AGNOSTIC



Architecture agnostic to transport layer

Support for ZigBee, BLE, LoRa and other IoT transport protocols

NETWORK BACKBONE FOR VARIED SERVICES



Enabling end-to-end services for multiple connected ecosystems

End-to-end solutions with simplified value chain and single network



Partnerships and Use Cases

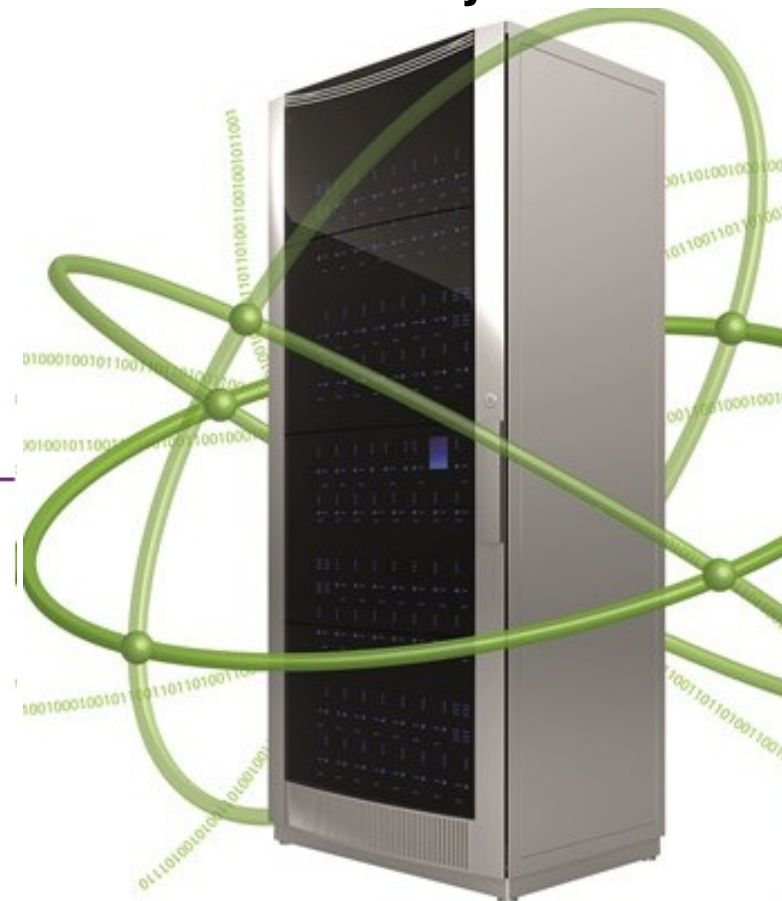


Smart Locks: Ruckus + Assa Abloy

Assa Abloy In-Room Solutions

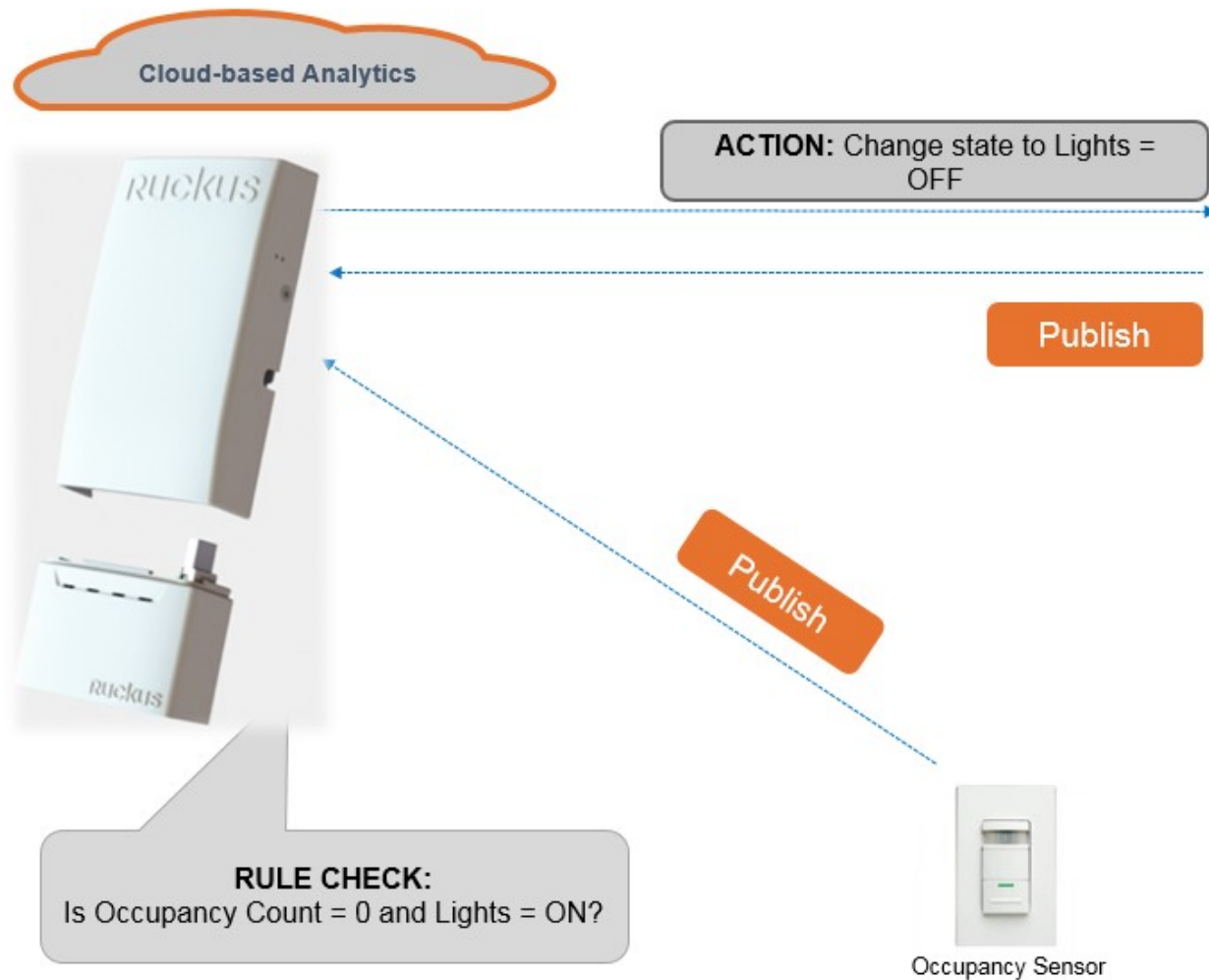


Assa Abloy Services



Ruckus and Assa Abloy: Mainstreaming Enhanced Security on Smart Door Locks

In-Room Automation (Thermostat, Light)



IBM Watson IoT for Smart Buildings

- Engaged with IBM Watson IoT team since November 2016
 - IBM is investing heavily in IoT: \$200M IoT HQ in Munich
- Watson IoT enables enhanced Edge Analytics capabilities
 - Integrating IBM Watson IoT Edge Analytics Agent (EAA) into Ruckus APs & ICX Switches
- Smart Buildings is the first focus vertical



BLE Asset Tracking: Ruckus + Kontakt.io

Cloud-based Analytics



Ruckus and Kontakt.io: Asset Tracking using Enterprise-grade LBS solutions

BLE Locating, Engagement and Services: Ruckus + Favendo



Ruckus and Favendo: The complete next-gen LBS value chain



Asset Management: Ruckus + TrackR

Cloud-based Analytics



RULE CHECK:
Is TrackR tag in Range?

Publish



Ruckus and TrackR: Enabling Asset Management for Enterprise

