

ARGE CONFERENCE 2017 SALZBURG



WORKSHOP # 4

**“THE APPLICATION OF STANDARDS COVERING SMART HOMES,
CONNECTED DEVICES AND ELMECH TECHNOLOGIES”**

UPDATE AND NEXT STEPS

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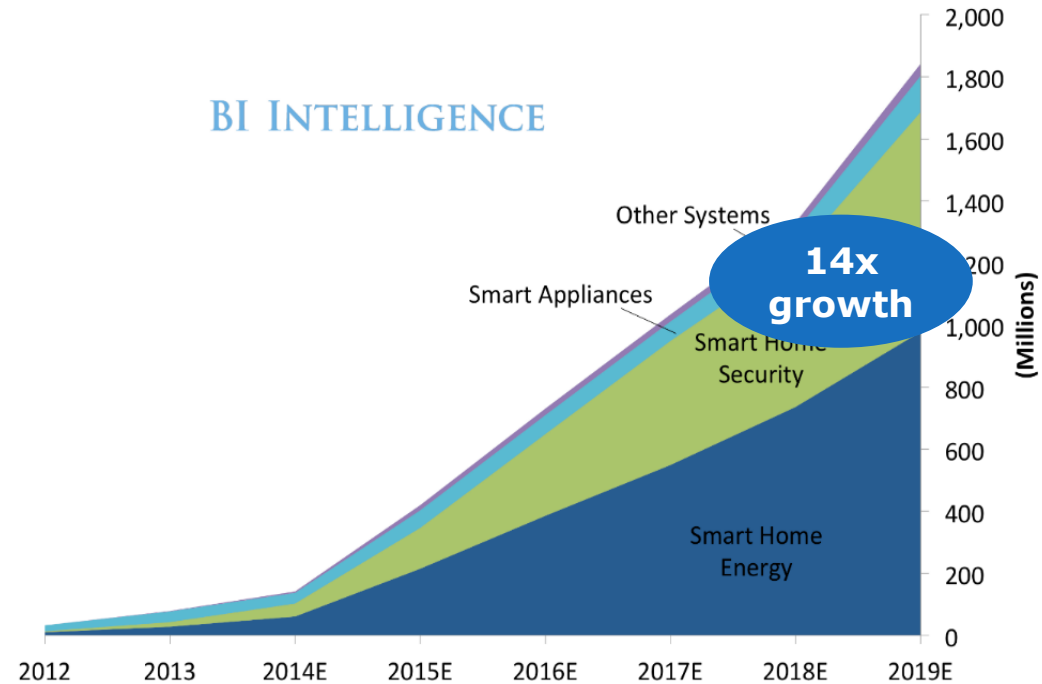
Smart homes and IoT growth



Global Connected-Home Device Shipments

By Device Category

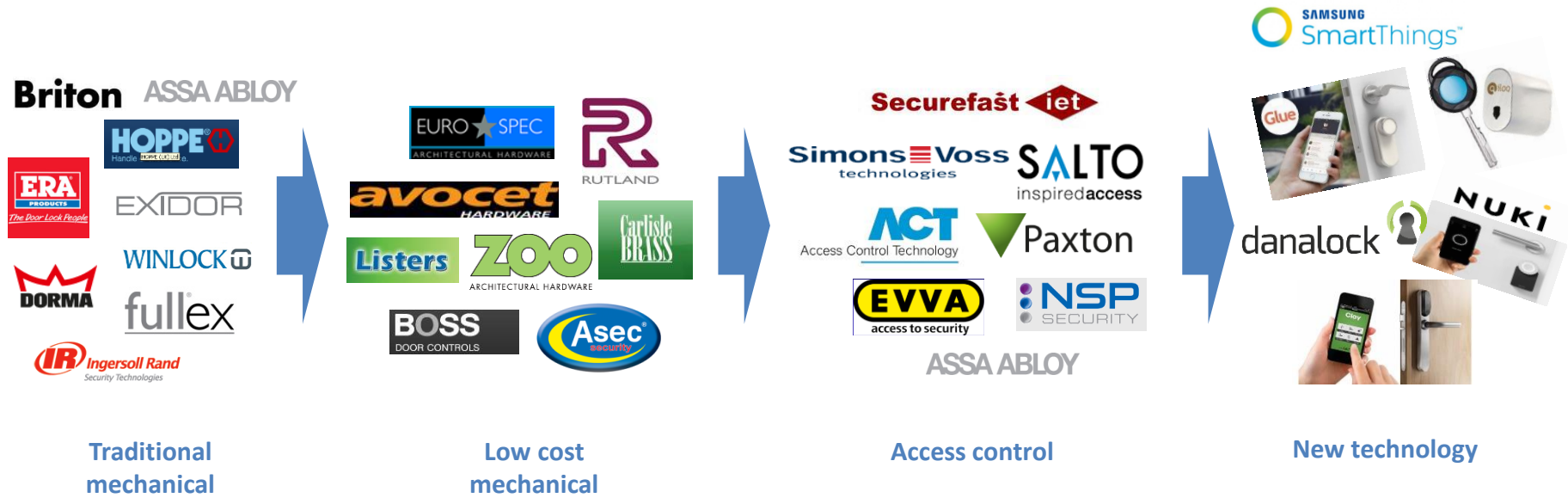
BI INTELLIGENCE



Source: ABI Research, TechNavio, Pike Research, BI Intelligence Estimates

Smart homes now a reality – did we really believe that in 2014!

The stakeholder's landscape is evolving....



.....bringing new entrants and technologies



Our competition in the Smart Home is changing..

- 22% of home insurance companies were running pilot programs to study connected home devices in home policies

Battle for control of the home



Google Home



Rapidly growing and are they our friends or foes – or both?



The Big 4

- Who will take major share of the Smart Home market predicted to be worth \$190 billion by 2021?



amazon Google SAMSUNG

The role of hardware manufacturers is changing

Technology
and marketing
co's lead

Market driven
by data
content and
software

Hardware
manufacturers
lose influence

Hardware
manufs.
relegated to
component
supplier



Our customers need assurance....

Police



Insurance co's



House builders



OEM's



Glass and Glazing Federation

Locksmiths



Are
smart locks
secure?

Scope of smart lock standard

- We need to consider the following system elements:
 - Mechanical performance
 - Electrical performance (wired)
 - Data performance
 - Data communication performance, wired, wireless or cloud transfer
 - Installation, deployment

- These elements treated in isolation currently

- We will create a system standard – embracing all key components



Our proposed standard



“Thief Resistant Electronic Door Locking Devices”

Scope of smart lock standard

- The Technical Specification covers:
 - Electronic escutcheons
 - Electronic multipoint locks
 - Electronic single point locks
 - Electronic cylinders
- Referenced standards:
 - EN 1303 – cylinders
 - EN 12209 – mechanical locks
 - EN 14846 – elmech locks
 - PAS 3621 (EN15685) – multipoint locks
 - prEN 16867 – mechatronic door furniture
 - EN 15684 – mechatronic cylinders
 - prSSF 1075 – digital keys for locks
 - ETSI TS 103 425 – smart home wireless networks

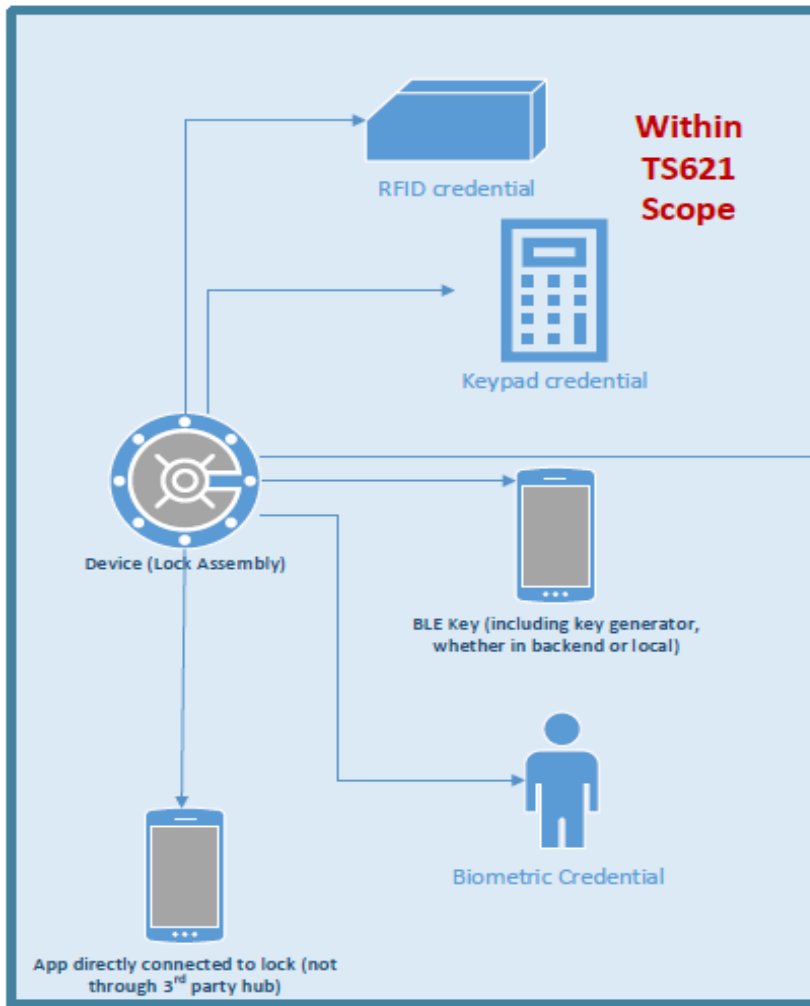


Door locks

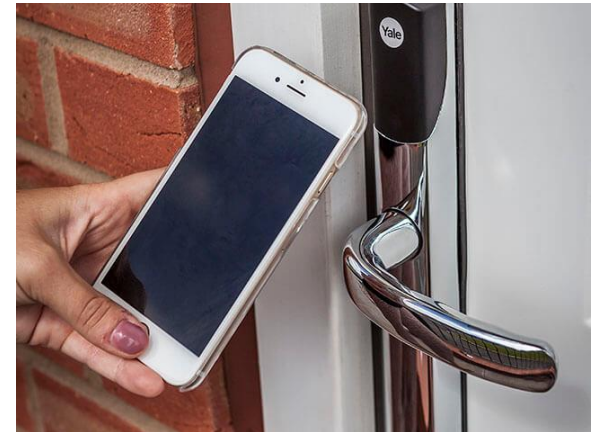
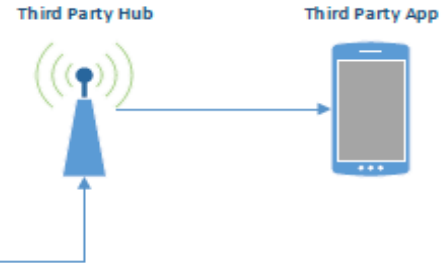


**Researching
applicable
standards**

Scope of the standard



Area of focus



Our strategy



Local quality marks

Pass/fail



Product standards



Graded



Delivering the standard



ARGE Technical Specification:

“Connectivity Security Assessment for Electronic Door Locking Credentials”

Standard drafting working group

Further work....

- Refine technical requirements and test methods for credentials security
- Confirm applicable communication protocols within scope, eg Bluetooth, Zigbee, Z-Wave
- Establish test houses

