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

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

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?
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 manuf. relegated to component supplier
Our customers need assurance....

Police

Insurance co’s

House builders

OEM’s

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:
  o Electronic escutcheons
  o Electronic multipoint locks
  o Electronic single point locks
  o Electronic cylinders

• Referenced standards:
  o EN 1303 – cylinders
  o EN 12209 – mechanical locks
  o EN 14846 – elmech locks
  o PAS 3621 (EN15685) – multipoint locks
  o prEN 16867 – mechatronic door furniture
  o EN 15684 – mechatronic cylinders
  o prSSF 1075 – digital keys for locks
  o ETSI TS 103 425 – smart home wireless networks
Scope of the standard

Within TS621 Scope
Our strategy

- EN 1303
- EN 12209
- EN 14846
- EN 15685
- EN 15684
- EN 16867
- PAS 24
- TS 103 425
- prSSF 1075

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