

ARGE Members' Meeting 2021

1st October 2021

Cybersecurity of consumer IoT: Applied on Smart Door Locking Devices

Håkan Hedlund, ARGE WG SDL Group Convenor

WG SDL | Håkan Hedlund, convenor

- ➔ Standard Manager
ASSA ABLOY Scandinavia
- ➔ CEN TC 33 member
 - ➔ WG 4 and WG 7
- ➔ CEN TC 127 member
 - ➔ WG 3
- ➔ Active in different working groups & industry associations related to **CPR, Standards and Compliance**



Background

- No EN Standard exists
- National existing quality marks (UK, SE, FR)
- **Standard scope:** to encompass mechanical and elmech locking performance combined with connectivity with credentials. Scope should cover:
 - Application across Europe
 - Residential end user markets
- Standard should provide a **platform/basis for local quality marks**
- It is also important to communicate to market about the **connectivity security level** (cyber security).

Reminder



Cyber Security Act and certification schemes



European
Commission

Cyber Security Act: 2019

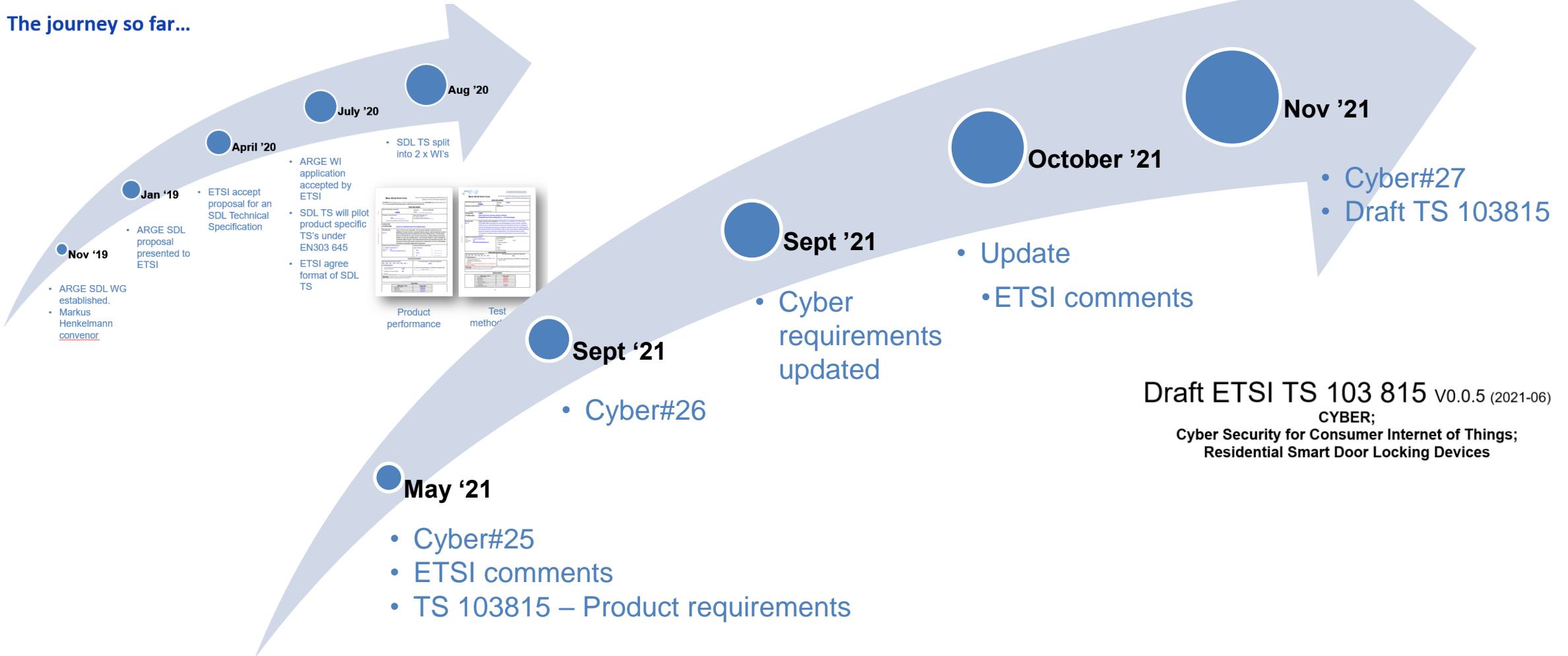
Reminder

- **ENISA** implements the Regulation
- **European cybersecurity certification schemes** - ARGE is a member
- Certification schemes should use existing standards and technical specifications
- Certification schemes to focus on **specific groups of ICT products** (e.g. “smart locks”)
- These schemes run by the **national cybersecurity certification authorities** and be valid throughout the EU

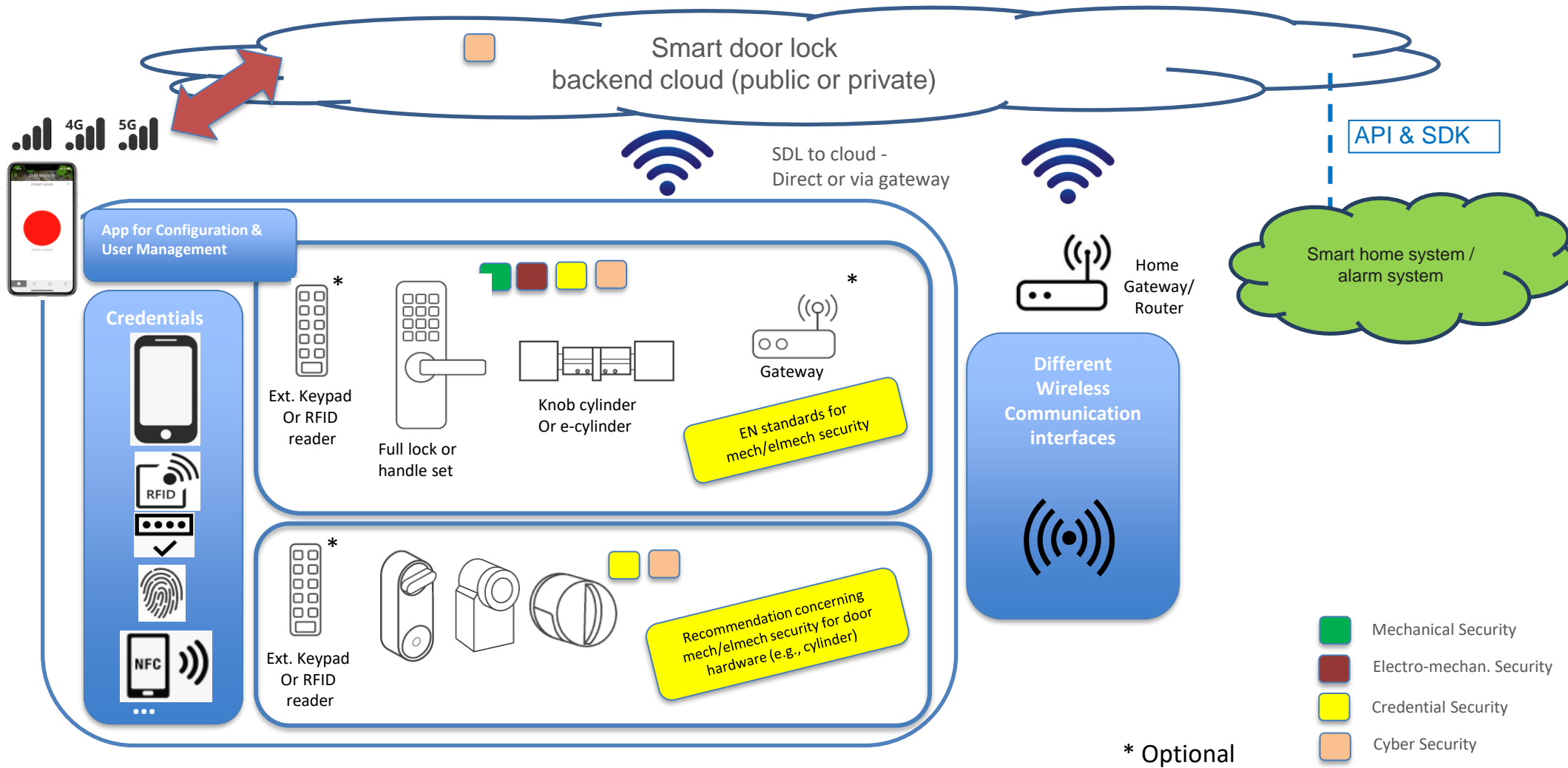
Creates a framework
for European
cybersecurity
certification schemes

The journey so far...

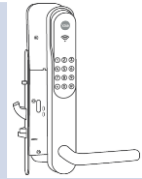
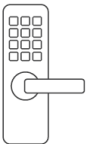
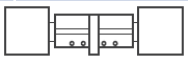


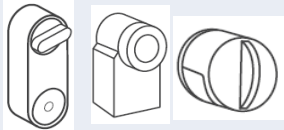
The journey so far...



TS 103825 Smart door locking device - Principle



ETSI TS 103815 - Principle....

| Type of product | Examples | Cybersecurity | Credential Security | Mech & Elmech EN Security |
|-------------------------|---|---------------------|---------------------|--|
| Full lock set |  | High Substantial | Level 1 Level 2 | Grades 3, 4 or 5 EN 12209, EN 14846 EN 16867, EN 1303, EN 15684, EN 15685 and EN 1906 |
| Handle Set |  | | | Grades 3, 4 or 5 EN 1906, EN 16867 |
| Knob cylinder |  | | | Grades 3, 4 or 5 EN 15684 |
| Electronic Cylinder |  | | | Grades 3, 4 or 5 EN15684 |
| Lock adaptor + cylinder |  | | | Grades 3, 4 or 5 EN 1303 EN 15684 |
| Lock adaptor |  | | | No EN available |

Take away from this presentation ...

- ➔ **AR GE is in the front seat**
- ➔ **Requirements are defined**
- ➔ **Verification methods – TBD**
- ➔ **Promote/marketing activities, implement roll out**



Thank you!

Any questions?