

Cyber Security for Consumer IoT: Technical Specification (TS) 103 645

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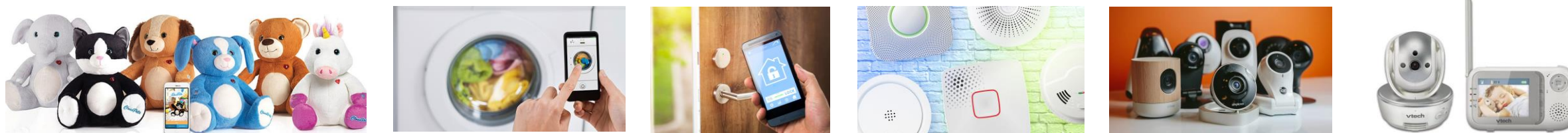
Head of Cyber Growth

UK DCMS

For: **NLO network meeting**

29th January 2019

Consumer IoT



- Estimated 12.9 billion consumer IoT devices by 2020 (Gartner 2017)
- Poorly secured IoT devices threaten people's privacy, online security and safety. They can be misused for large-scale DDoS attacks.
- ETSI TC Cyber approved Technical Specification (TS) 103 645 on 18 January 2019, with publication scheduled for February 2019.

Image sources:

<https://www.theguardian.com/technology/2017/nov/14/retailers-urged-to-withdraw-toys-that-allow-hackers-to-talk-to-children>

<https://www.which.co.uk/reviews/washing-machines/article/smart-washing-machines-explained>

<https://www.tomsguide.com/us/bluetooth-lock-hacks-defcon2016,news-23129.html>

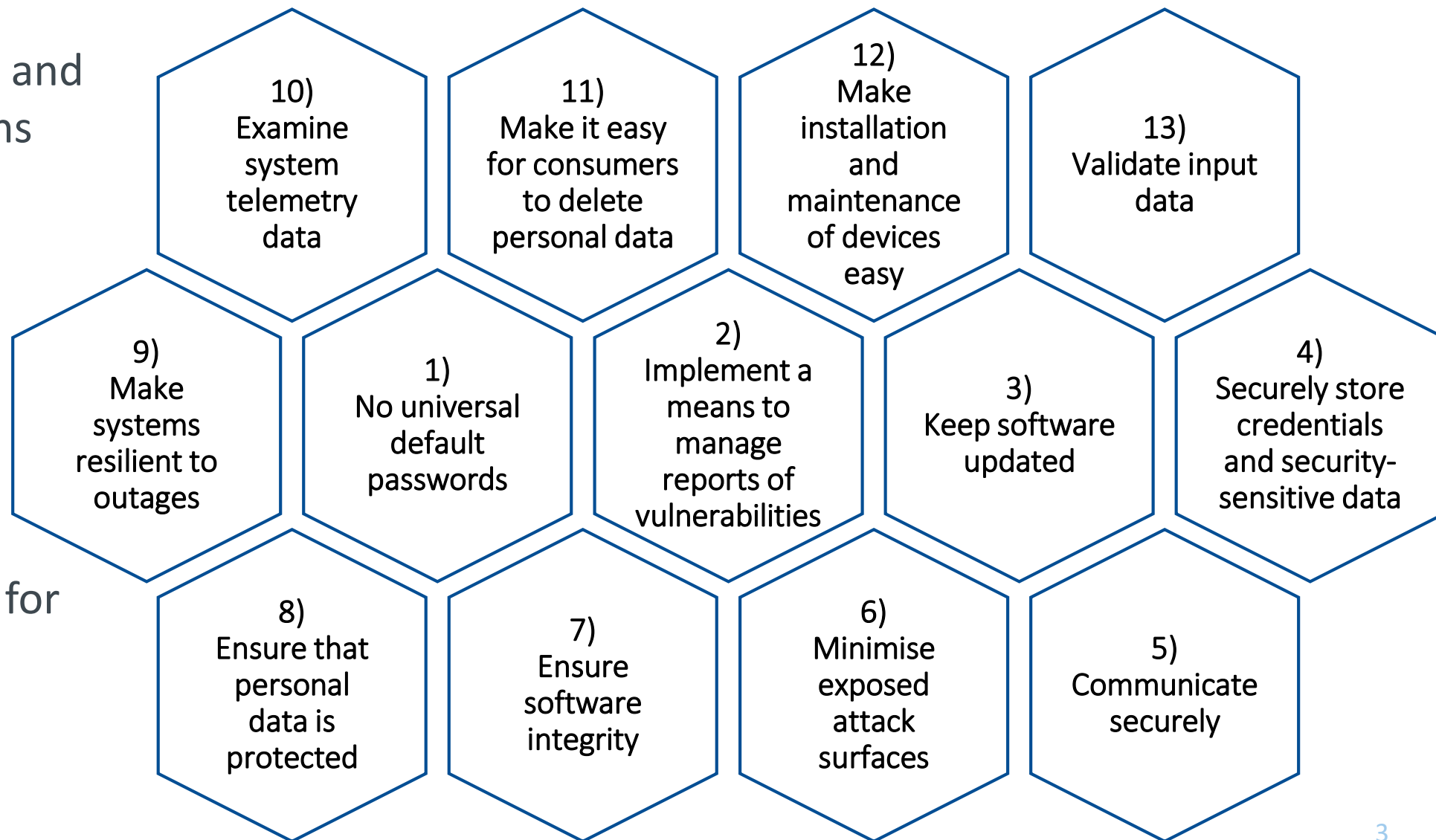
<https://www.techhive.com/article/3236299/sensors/best-smart-smoke-detector.html>

<https://www.cnet.com/how-to/how-to-prevent-your-security-camera-from-being-hacked/>

<https://www.bbc.co.uk/news/technology-35532644>

Content of TS 103 645

- 37 requirements and recommendations in 13 sections:
- With implementation pro forma
- Initial draft was based on UK Code of Practice for Consumer IoT Security



Features of TS 103 645

- High-level** Offers flexibility as IoT technology develops. Provides space to implement security solutions appropriate to the product.
- Focused** Limited to provisions that matter most – does not attempt to solve all security challenges. Implementation is manageable.
- Scope** Applicable to all internet-connected consumer products. Not applicable to industrial applications (IIoT), healthcare, transport etc.
- Industry recognition** A major UK testing house is exploring TS 103 645 as a basis for certification. Some manufacturers have pledged implementation of UK Code of Practice.

Contact

On ETSI specific questions:

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Rapporteur of TS 103 645

https://portal.etsi.org/webapp/WorkProgram/Report_WorkItem.asp?wki_id=54761

Public landing page of TS 103 645 work item

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