

## **White Paper Proposal (CHC)**

**Title:** Connected Home Cybersecurity Regulations

### **Proposed Project:**

Title: "Smart home is an interesting area, primarily because it is so poorly protected currently – we estimate that only 3.3% of the 156.7 million devices shipped in 2018 featured secure hardware. The smart home market is highly fragmented in nature, encompassing a broad array of devices, from access and security, to environmental controls and monitoring to networking infrastructure plus an array of consumer electronics devices. P.A.ID Strategies sees a variety of different security and privacy solutions and approaches to be tested and implemented with differing levels of success; in part in response to growing activity amongst regulators (and a small number of OEMs and service providers) with the aim of improving privacy and cybersecurity. As a result, we believe that 36.7% of the 363.5 million devices shipping in 2023 will feature secure hardware, an increase of 2,482% over 2018."

The above was an extract from a summary of a piece of research published in Q3 2019. We believe that it warrants further exploration based upon our existing research and knowledge to outline the primary issues and current standards, regulatory and industry activity intended to address it. The opening text above was edited to add some clarity and specificity following an initial query from a CHC member (I hope the changes have helped to do this).

My latest thoughts and points for consideration are:

- Looking to review and summarise the initial plans from regulatory bodies around the world, which includes Japan, UK, Germany, California and a growing number of US states, plus identify any other initiatives being considered elsewhere
- Consider the agreements and partnerships in place with other states/governments, such as the UK, Singapore and Australia have in place
- Review any industry-led efforts and consortia to consider their impact and how they may dovetail/conflict with the above regulatory efforts
- Briefly summarise the impact and effect on the market for IoT and connected devices in the home, including what we believe consumers will think/feel, and talk about the potential outcomes
- Consider and discuss if these first moves are sufficient or a decent first step (or not) and if they should/could go further to address the full value chain from the device through to the cloud and service provider
- It should be possible for me to include some updated data where appropriate and we can consider incorporating other sources if suitable

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