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Safe Configuration Management on CHERIoT

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○ About Configured Things

- ◆ Bristol based startup founded by alumni of Hewlett Packard Labs.
- ◆ We create products and solutions that address allow systems to interact across trust domain boundaries
- ◆ We are alumni of the NCSC Cyber Accelerator programme, and retain a close working relationship with the NCSC and other government agencies.



National Cyber
Security Centre
For Startups
Alumni



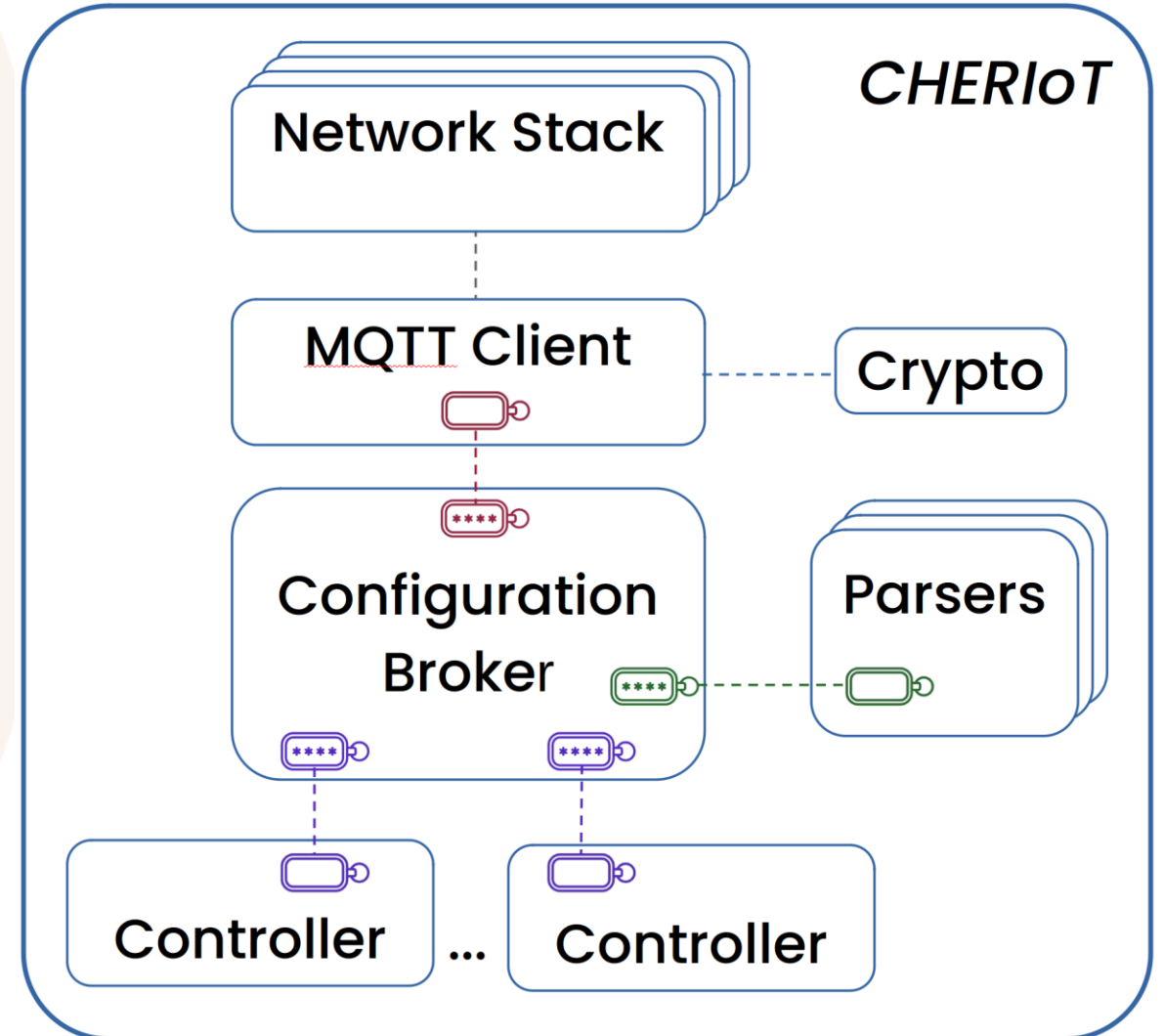
○ Problem space

- Most systems need to interact with other systems that they don't, or at least shouldn't, trust.
- Providing security through air gaps is no longer viable in many use cases.
- Patterns exist for operating across trust boundaries, but they are general only used at the organisational level, supported by bespoke and expensive appliances.
- There are many other places that would benefit from those patterns if they were easier and more cost effective to implement.



○ Safe Configuration Broker

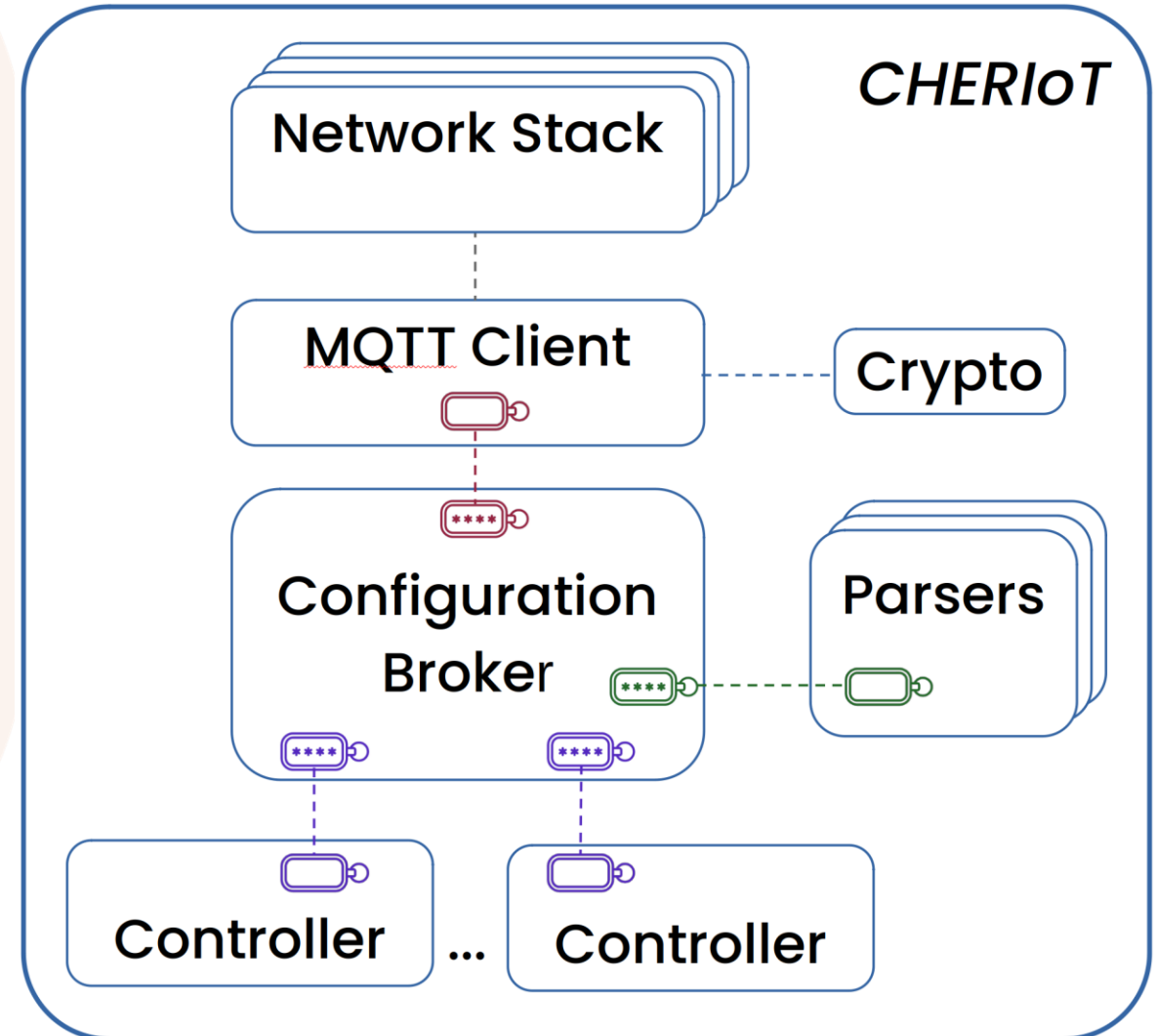
- ◆ Reusable pattern using CHERIoT compartments to isolate providers, parsers, and consumers.
- ◆ Sealed capabilities provide an auditable data flow
- ◆ Contributed to cheriot-demos





○ Safe Configuration Broker

- ◆ Reusable pattern using CHERIoT compartments to isolate providers, parsers, and consumers.
- ◆ Sealed capabilities provide an auditable data flow
- ◆ Contributed to cheriot-demos
- ◆ ***This pattern would have largely mitigated the 2024 CrowdStrike outage***





CHERI

THANK YOU

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