

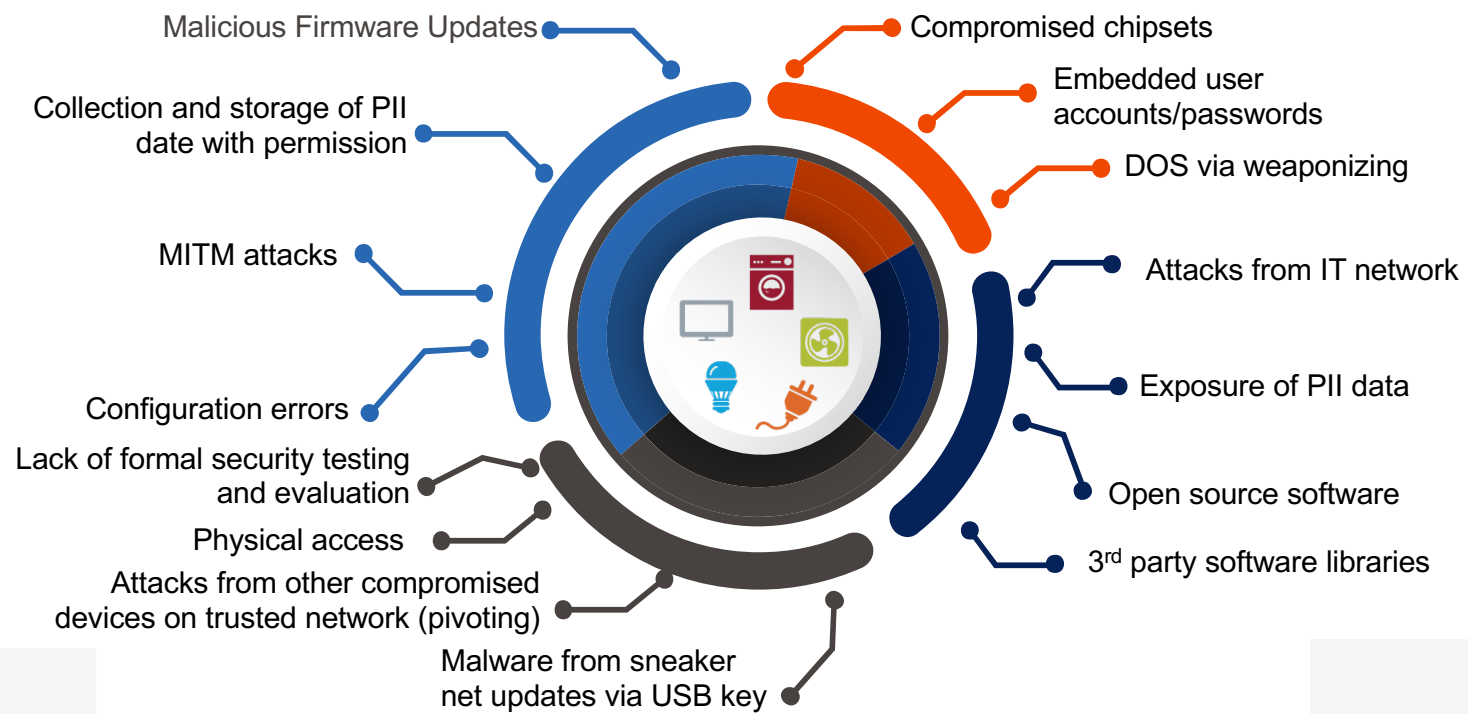
DESIGN. BUILD. SECURE

CYBER SECURITY EVALUATIONS

IoT Solutions

ATTACK SURFACE

12



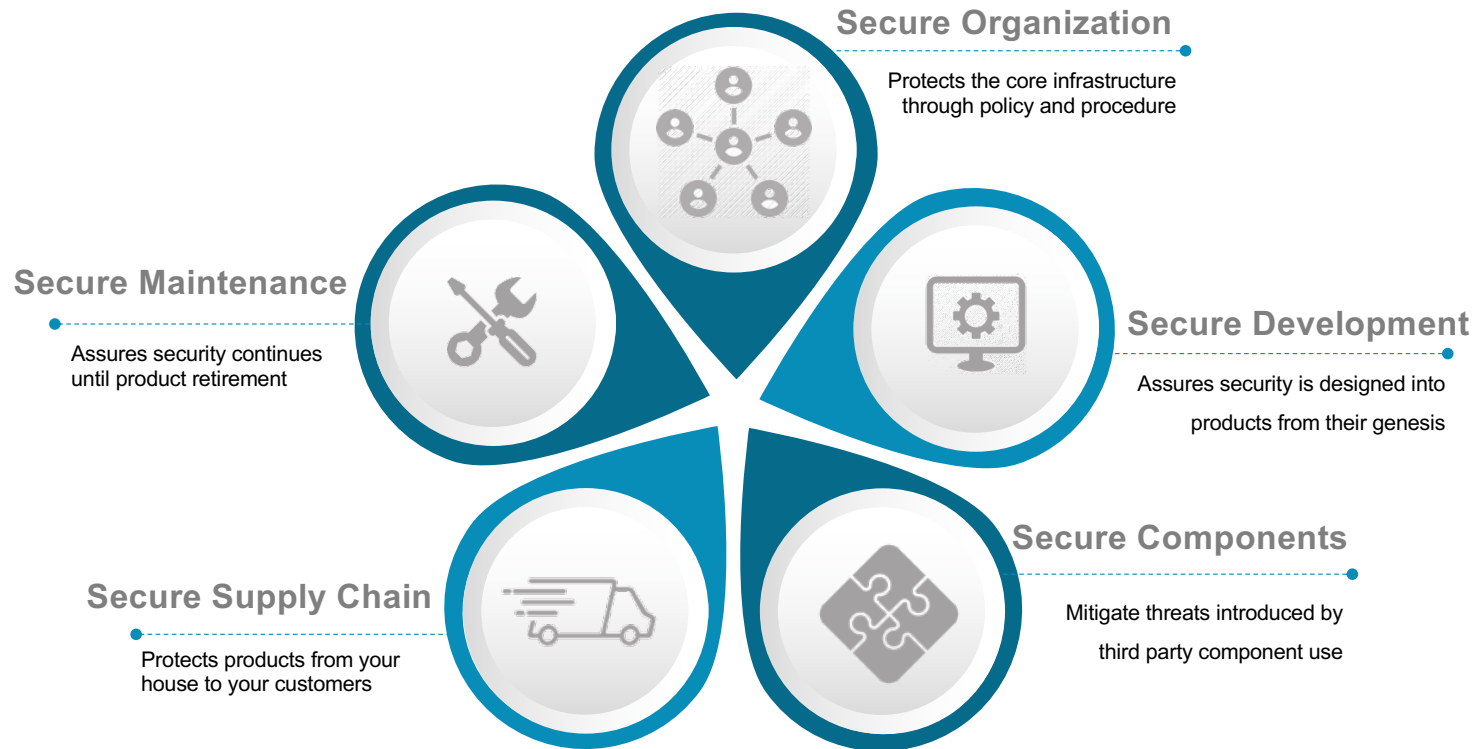
HOW DID WE GET HERE?



- Vendors do not have a SDLC (design, testing, evaluation of cyber)
- Lack of awareness for buyers on security risks
- Lack of formal testing and evaluation in the marketplace
- Foreign actors (and others) are looking for attack surface and data
- Configuration errors (users)

ESSENTIAL CYBERSECURITY ACTIVITIES

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WHAT TO LOOK FOR IN A VENDOR



- Secure Development Lifecycle (SDLC) – Secure by Design, Privacy by Design principles
- Formal Testing and Evaluation by a 3rd party – Accredited
- Public policies on privacy and security – Openness to their practices
- Do they have a governance function – Culture of Security
- CVE/CVSS for the product and company – What is their history of vulnerabilities
- Privacy Commissioners – Have any complaints been reported

CONDUCTING AN EVALUATION





- How does the organization implement – Governance, SDLC, Threat Data, Deployment, Secure by Design
- Audit the organization against these aspects
- Conduct a vulnerability/penetration test against the end-to-end solution including cloud, middleware, 3rd party libraries, device and all communication channels
- Vendor needs to improve maturity in company && develop processes

T-200 will lay the foundation to determine both a vendor and product cyber posture.

FUTURE – ISOC LABEL CONCEPT



This product certified compliant with international security standards		For more information visit
<p>Certifying Company Logo</p> 	<p>Standard(s), Product and Compliance to Regulatory</p> <p>CVP 2019 CIRA IoT SHG PIPEDA CASL</p>	<p>Link to Live Updates/MUD, etc</p> 

Reference Sample ONLY

RECOMMENDATIONS



- Keep an eye out for product labels and web sites
- [MUD](#) will be your friend in the future
- Does the vendor sign up for programs such as [loXT](#) commitment?
- International Standards are coming – ISO/IEC [27030](#) Privacy and Security for IoT, IEC [30149](#) Framework for Trustworthiness
- Bi-National Standards are coming - [T200](#) in Canada/US

A securely managed company will develop a secure product



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