



Huawei Cyber Security

-- Strategy and Approach

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HUAWEI TECHNOLOGIES CO., LTD.



Open networks connect the world, facilitate economic exchanges across regions, and promote global trade



By **2025**



Add **4 Billion** internet users

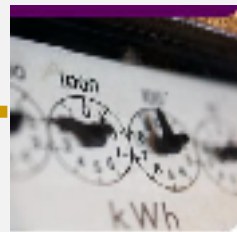
Produce **100 Billion** connections

In-vehicle Communication & Smart Traffic



Vehicle communication, navigation, tracing, security and maintenance

Auto Meter Reading



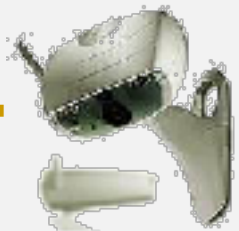
Remote meter reading is safer and easier. Benefit for Green City construction

Merchandise Distribution



RFID is used for merchandise trade and garbage sorting mgmt

Remote monitoring & Healthy



Remote Home-caring, Healthy, Safety mgmt

Vending



Vending, cargos magt, E-wallet mgmt

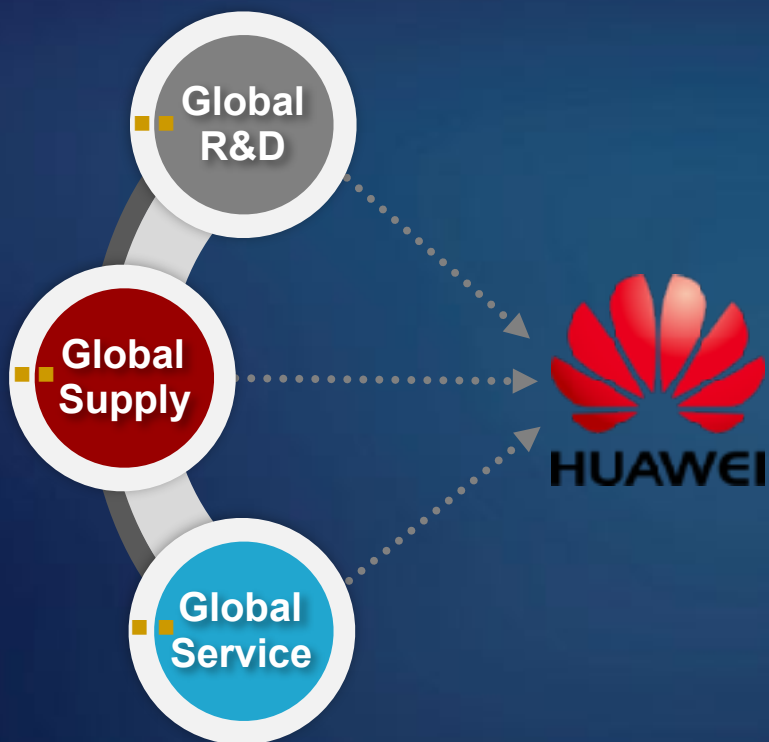
Electronic Consumer



Info Sharing, on-line game, media download, communication and etc.



We are global – We are facing challenges of global supply chain, cyber security is not a single country or specific company issue



secure products, solutions and services



The Chinese city of Chengdu has 16,000 companies registered and 820 of them are foreign-invested companies. Of these, 189 are Fortune 500 companies. Household brand names such as Intel, Microsoft, SAP, Cisco, Oracle, BAE, Ericsson, Nokia, SAP, Boeing, IBM and Alcatel-Lucent are all located there to name but a few.

Every major telecommunications equipment provider has a substantial base in China :

- Nokia has its biggest manufacturing base globally in China and has 14 wholly owned or joint ventures in China, and its factory in Suzhou manufactures a third of its global production of wireless network products;
- Ericsson's joint-venture Nanjing Ericsson Panda Communications Co. has become the biggest supply centre of Ericsson in the world;
- Cisco also has a huge presence in China, with R&D centres in six major cities, Over 25% of all Cisco products are produced by Chinese partners.



Cyber security is a Huawei crucial company strategy



Mr. Ren
Huawei CEO

As a leading global ICT solutions provider, we provide information network products and services. The global network needs to be stable at all times. It is our primary social responsibility to support stable and secure networks for customers in any time.

“Huawei hereby undertakes that as a **crucial company strategy**... Taking on an **open, transparent and sincere** attitude, Huawei is willing to **work with all governments, customers and partners to jointly cope with cyber security threats and challenges** ... Our **commitment to cyber security** will never be outweighed by the consideration of commercial interests.”

Our Cyber security vision and mission focusing on the needs of our customers

Vision

To provide **secure, easy and equal** access to information services.

Mission

Working internationally to develop the most effective approach to cyber security, establishing and implement an end-to-end customer-oriented cyber security assurance system within Huawei, which is transparent and mutually-trusted, so that we ensure customer's long-term security trust.



Our current focus is on designing and implementing activities to achieve **9 strategic objectives** imbedded within our processes.

EXTERNALLY FOCUSED

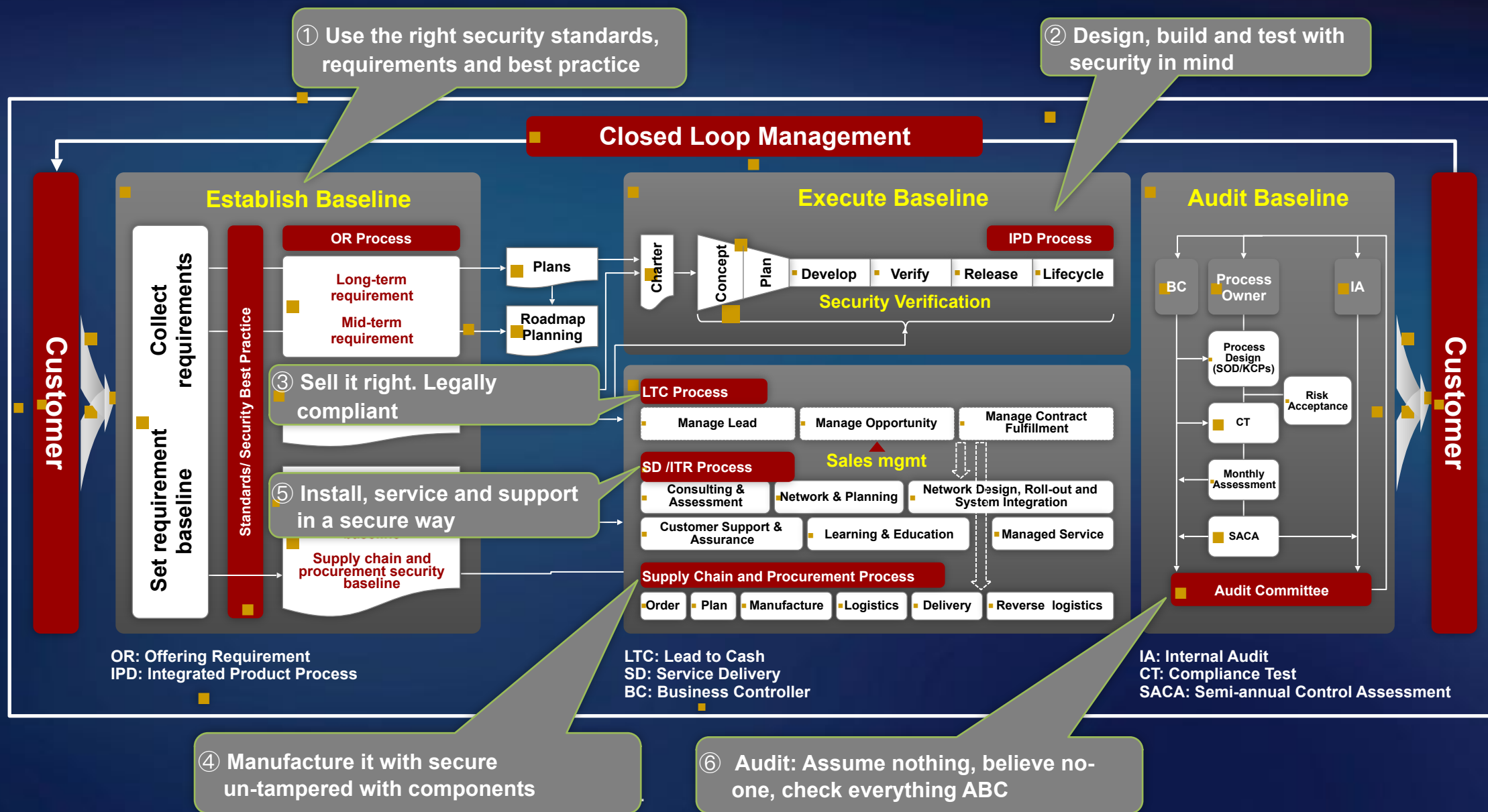
- OPENESS, TRANSPARENCY AND COOPERATION
- PROACTIVE COMMUNICATIONS
- COMPLIANCE WITH LAWS AND REGULATIONS
- VERIFIED BY INDEPENDENT THIRD-PARTIES
- EMERGENCY RESPONSE

INTERNALLY FOCUSED

- EMPLOYEE AWARENESS AND RESPONSIBILITIES
- SECURE BY DESIGN, DEVELOPMENT AND DELIVERY
- NO "BACK DOOR" AND TAMPER PROOF
- TRACEABILITY

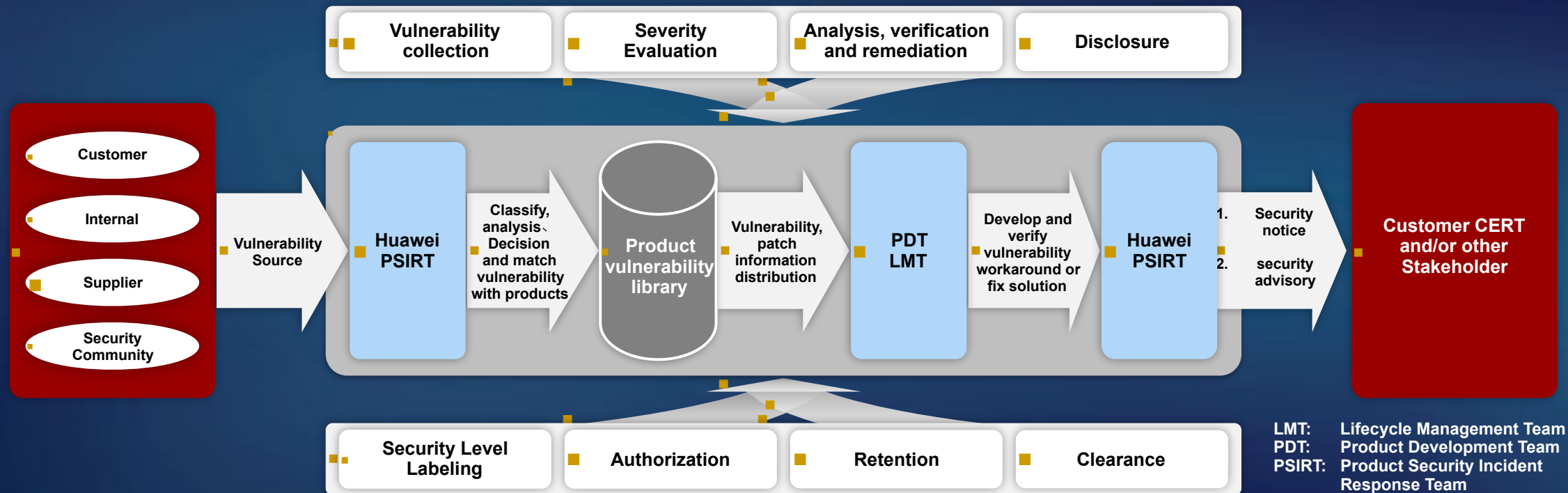


End to End Cyber Security Management covers every process and every part of Huawei's product and services, thus making cyber security a part of Huawei's DNA.



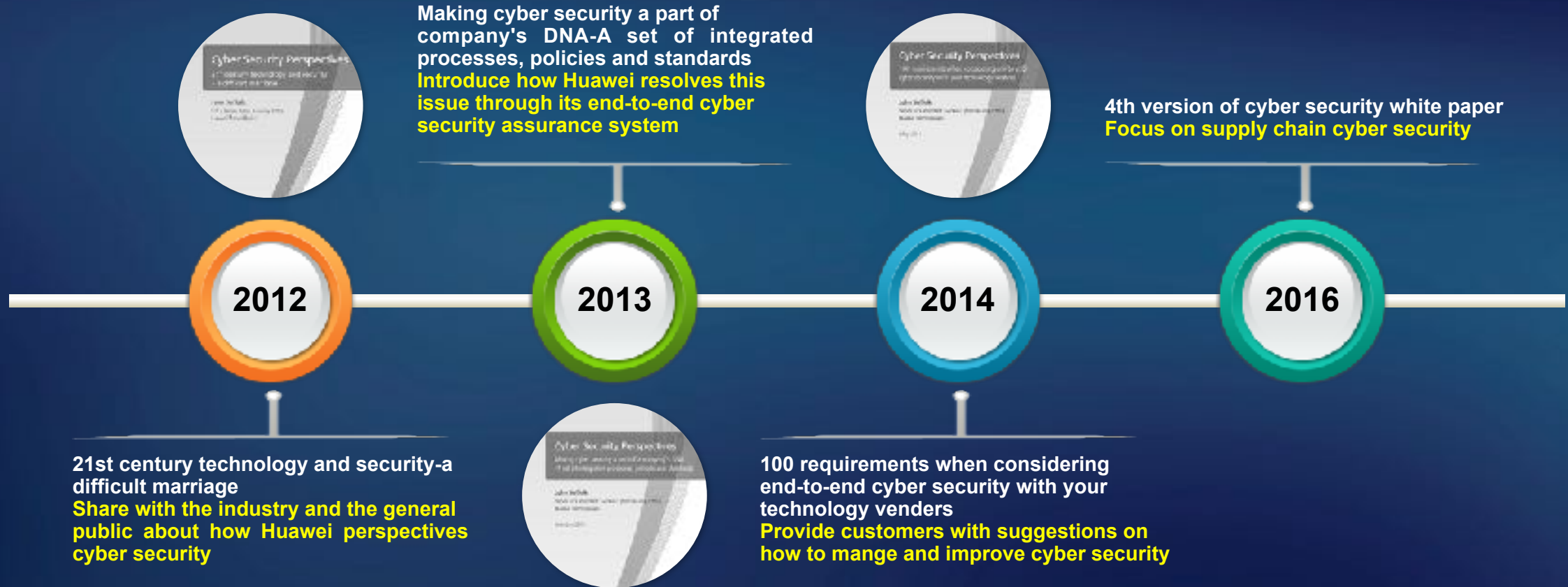


We are enhancing our vulnerability management. We adopt **responsible disclosure processes** with vendors, CERT organizations and security researchers. We coordinate the resolution of the product vulnerability



- For different BG customers use responsible disclosure: Carrier Network BG, Enterprise Business BG, Consumer Business BG
- Learn from the industry's vulnerability management best practices: CVSS, CPE, CVRF etc.
- PSIRT response to the vulnerability of the self-development, open source and third-party components, speed up response to the vulnerabilities which are already in the wild

A series of cyber security white papers--Cyber Security Perspectives
Remain open and transparent; demonstrate Huawei's policies, challenges, and solutions in terms of cyber security.



Active Engagement with Cyber Security Organizations and Forums



Join in the security groups of standards organizations



Cyber security forums



lists.grok.org.uk



Contributions to cyber security standards



EMUKarp

Lead 4 proposals



SG17

7 Independent proposals
4 WG drafts



SA3

Over 180 suggestions
have been adopted

Closing Thoughts: Threats will never stop, we never stop

- The development of networks has helped to advance social progress. Open networks have encouraged information flow and sharing, provided more opportunities for innovations, lowered the costs of innovation, and has helped improve the world's health, wealth and prosperity.
- As a crucial company strategy, Huawei has established and will constantly optimize an end-to-end cyber security assurance system.
- This is a continual effort, and Huawei is committed to providing best-in-class products and services to meet the needs of our customers. We take cyber security seriously and have invested substantial resources into our efforts to promote and improve the ability of our company, our peers and others to **provide the best-possible security assurance and ensure a safer and more secure cyber world for all.**
- **Cyber security is not a single country or specific company issue. All stakeholders – governments and industry alike – need to recognize that cyber security is a shared global problem requiring risk-based approaches, best practices and international cooperation to address the challenge.**

Thank you



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