



Privacy Perspectives Global vs. Localisation

david.francis@huawei.com Cyber Security Officer

HUAWEI TECHNOLOGIES CO., LTD.



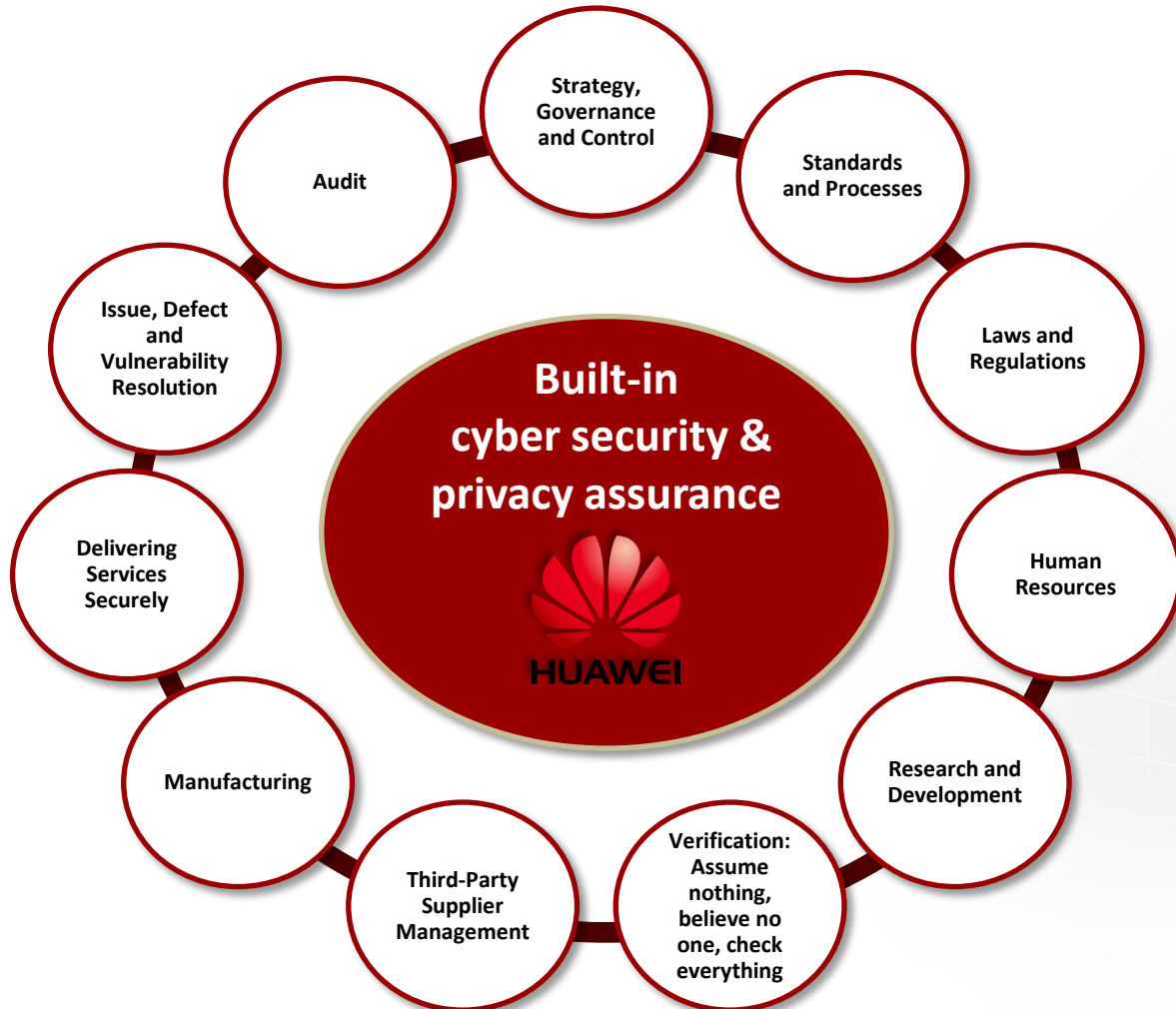
What about today...

- **Over the last two days...**
 - **Theoretical Models**
 - **New Architectures**
 - **New Technologies**
- **But what do we do in today's reality?**
- **Environment Moving at Different Speeds**
 - **Business Models**
 - **Technologies**
 - **Implementations and Deployments**
 - **Consumer Considerations**
 - **Legislation**

Privacy By Design

- Privacy By Design needs to address all aspects, including:
 - Technology
 - System Design
 - Architecture
 - Implementation
 - **Operation**
 - **Assurance**

Privacy - Process Driven - “Built-In” not “Bolt-on” Approach



Area	Focus
Strategy, Governance and Control	Having an overall strategy and the accountability to make it happen
Standards and Processes	Using the best standards and approaches to protect against threats and risks
Laws and Regulations	Making your products and operations legally compliant in every country you operate in
Human Resources	Getting the right people, in the right roles with the right behaviour to limit insider issues
Research and Development	Designing, building, testing products in a secure way that builds on the above building blocks
Verification: Assume nothing, believe no one, check everything	Many eyes, many hands many checks. Tiered independent approach to security verification
Third-Party Supplier Management	Getting your suppliers to take security seriously – 70% in the box is not Huawei's
Manufacturing	Manufacturing products that secure each step along the way – right through to delivery
Delivering Services Securely	Ensuring installation, service and support is secured. No tampering, fully auditable
Issue, Defect and Vulnerability Resolution	As issues arise, solving them quickly and ensuring customers technology is secured
Audit	Using rigorous audit mechanisms to ensure every part of Huawei conform to the strategy

Global Companies – “Local” Operational Execution

- International standards are not standard
- Conflicting legislation, Implementation variations
- Local law awareness not just global process
- People, Policy, Process, Procedures
- Administrators/Operators
 - Compliance
 - Training
 - Awareness
- On-going Review
- Assurance Structures
- Trust built on Transparency

Global Company Operating Locally

Compliance, Training, Awareness – They are not the same thing

Conduct security mgt on employees in critical positions in the stages of on-boarding, in service and leaving to continuously improve their security awareness and capability and ensure the employees and their behaviors are clean and secure

360 degrees
vetting



Security
vetting

- Ensure their background is clean: background vetting/ checklist of qualifications vetting, e.g.: criminal history, government/military background, bad habits, etc.

Capability
improvement

- Establish the matrix for capability improvement to make a systematic plan to improve capability
- Motivate employees to learn proactively to improve relevant knowledge and skills
- The exam results are linked with the promotion qualifications

Position
management

- Identify the positions with direct man-made risks to include in systematic management
- Conduct security audit & evaluation on employees in service/leaving the position
- employees sign the commitment letter

Vetting checklist



安全课程

安全课程	POT 经理	铁三角 人员	采购 SQE	试剂技术 人员	安全关键岗位
生产安全知识					★
采购安全知识				★	
客户信息安全知识			★		
服务和质量安全意识		★	★		
测试安全知识	★				
开发安全知识	★				
通用基本安全知识和意识	★			★	★

MATRIX for capability improvement

Partnership

- Analysis of the RFI/RFI/Tenders
- Responsibilities not understood – Really!
- Example, Managed Services
 - Outsource tasks NOT Responsibilities
 - UK Ofcom reminder to Operators April 2013
- Requirement for Buyer Education
- All have a duty of care
- Assurance
 - Who has access to data ?
 - Who knows who has access to data?
 - Accidental verses Deliberate Actions
 - Partnership Assurance Techniques



Closing Thoughts: Awareness

- **Security is relatively easy, Privacy is hard**
- **Old Problem, but we haven't cracked it**
- **Vendors - Context**
 - **Local**
 - **Global**
- **Buyer Education**
- **End User/Consumer Awareness**

- **We need to collaborate to deliver a new approach based on transparency**
- **Good legislation is never as strong or as fast as buying power**

Thank you

www.huawei.com

Copyright©2012 Huawei Technologies Co., Ltd. All Rights Reserved.

The information in this document may contain predictive statements including, without limitation, statements regarding the future financial and operating results, future product portfolio, new technology, etc. There are a number of factors that could cause actual results and developments to differ materially from those expressed or implied in the predictive statements. Therefore, such information is provided for reference purpose only and constitutes neither an offer nor an acceptance. Huawei may change the information at any time without notice.