



Importance of NESAS for an Operator

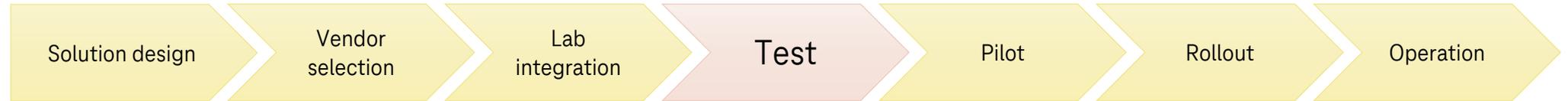
Sven Lachmund, Deutsche Telekom Security



Evaluation of Network Equipment – No NESAS

High level workflow of technology introduction of an operator

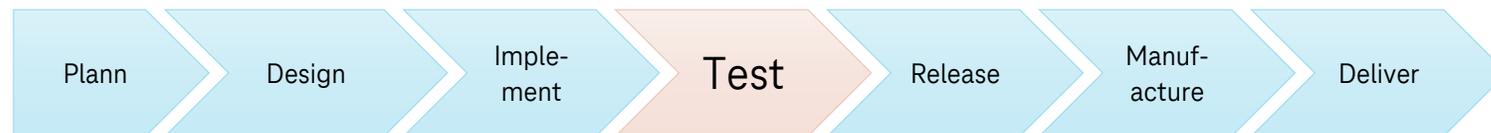
Network operator



Without NESAS

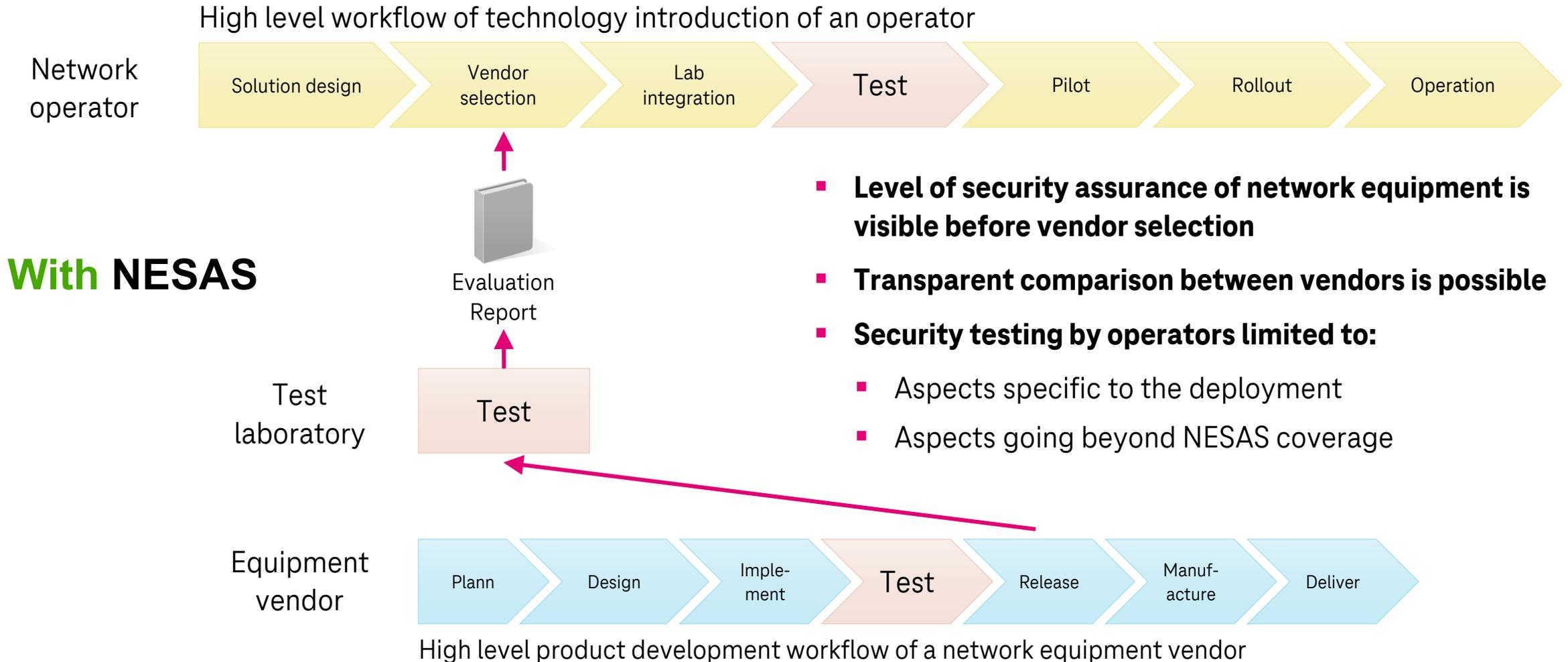
- **Operators test on their own**
- **Testing only possible during product integration**

Equipment vendor



High level product development workflow of a network equipment vendor

Evaluation of Network Equipment – with NESAS



Evaluation and Assessment in Combination is Key

Equipment
evaluation



Network
Product

snapshot in time of the
security posture

Dynamicity in
development



Release 1



Release 2



Release 3



Release 4

frequent
updates

Fix of a
vulnerability

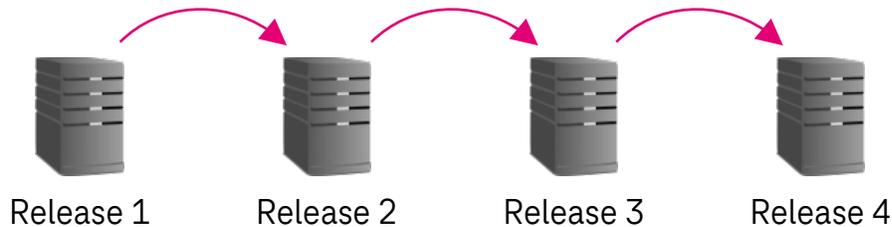
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**Evaluation of
network
equipment**

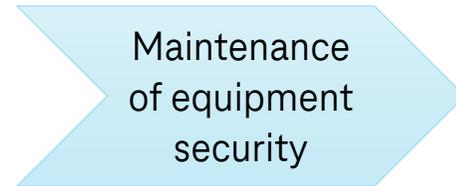


**Assessment of
vendor
processes**

Assessment of Equipment Vendors' Processes

NESAS

Equipment
vendor



Security in vendor
processes built in

- **Encourages security-by-design culture**
- **Vendors demonstrate they develop and maintain products with security in mind**
- **Processes of the vendor have built-in security controls**
 - Product development
 - Product maintenance
- **Assurance covers (excerpt):**
 - Secure implementation
 - Security testing
 - Vulnerability management
 - ...

Key Take Aways for Operators

NESAS benefits for operators

- **Visibility of security posture of network equipment during vendor selection phase**
- **Security testing by operators can focus on deployment specifics**
- **Vendor assessment assures vendors have process in place to maintain product security during development and product lifecycle**

What operators should do to benefit from NESAS

- **Demand NESAS in procurement process**