Importance of NESAS for an Operator

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Evaluation of Network Equipment – No NESAS

High level workflow of technology introduction of an operator

Network operator

- Solution design
- Vendor selection
- Lab integration
- Test
- Pilot
- Rollout
- Operation

Without NESAS

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

High level product development workflow of a network equipment vendor

Equipment vendor

- Plann
- Design
- Implement
- Test
- Release
- Manufacture
- Deliver
Evaluation of Network Equipment – with NESAS

High level workflow of technology introduction of an operator

With NESAS

- Level of security assurance of network equipment is visible before vendor selection
- Transparent comparison between vendors is possible
- Security testing by operators limited to:
  - Aspects specific to the deployment
  - Aspects going beyond NESAS coverage

High level product development workflow of a network equipment vendor
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
Evaluation and Assessment in Combination is Key

- **Equipment evaluation**
  - Snapshot in time of the security posture

- **Dynamicity in development**
  - Release 1
  - Release 2
  - Release 3
  - Release 4
  - Frequent updates

- **Fix of a vulnerability**

- **Evaluation of network equipment**

- **Assessment of vendor processes**
Assessment of Equipment Vendors’ Processes

- 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
  - ...

NESAS Equipment vendor

Secure development

Maintenance of equipment security

Security in vendor processes built in
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