

The foundation of security of deployed networks



Operations process

- Secure operational procedures, e.g., segregation of duties, use of least privilege and logging
- Monitoring the security performance, vulnerability management and detection of attacks
- Response and recovery after breach



Deployment process

- Solid network design with security and resilience in mind
- Configuration of security parameters, hardening



Vendor product development process

- Secure hardware and software components
- Secure development processes
- Version control and secure software update



Telecommunications standardization process

- Secure protocols, algorithms, storage



- End users' experience of network security is determined by deployed networks.
- Security status of deployed networks depends on four interdependent layers.
- Holistic approach to security includes all four levels.
- Operators are in control of operations, deployment and integrator and vendor selection.
- Vendors are in control of their product development and sourcing decisions(component suppliers).
- Standards are set in a multi stakeholder fashion.