

Security Officer: An NREN Seconded Perspective

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- **About me:**
 - **Senior Incident Handler and Researcher with DFN-CERT**
 - **Currently member of ACDC project (Fighting Botnets)**
- **NREN Security Officer / Seconded at DANTE**
 - **Position from 14th July to 23rd December**
 - **Motivation: Win-Win situation**
- **Content:**
 - **Overview of the Security Officer Role**
 - **Preliminary Results**
 - **Benefits for the constituency and other security teams**

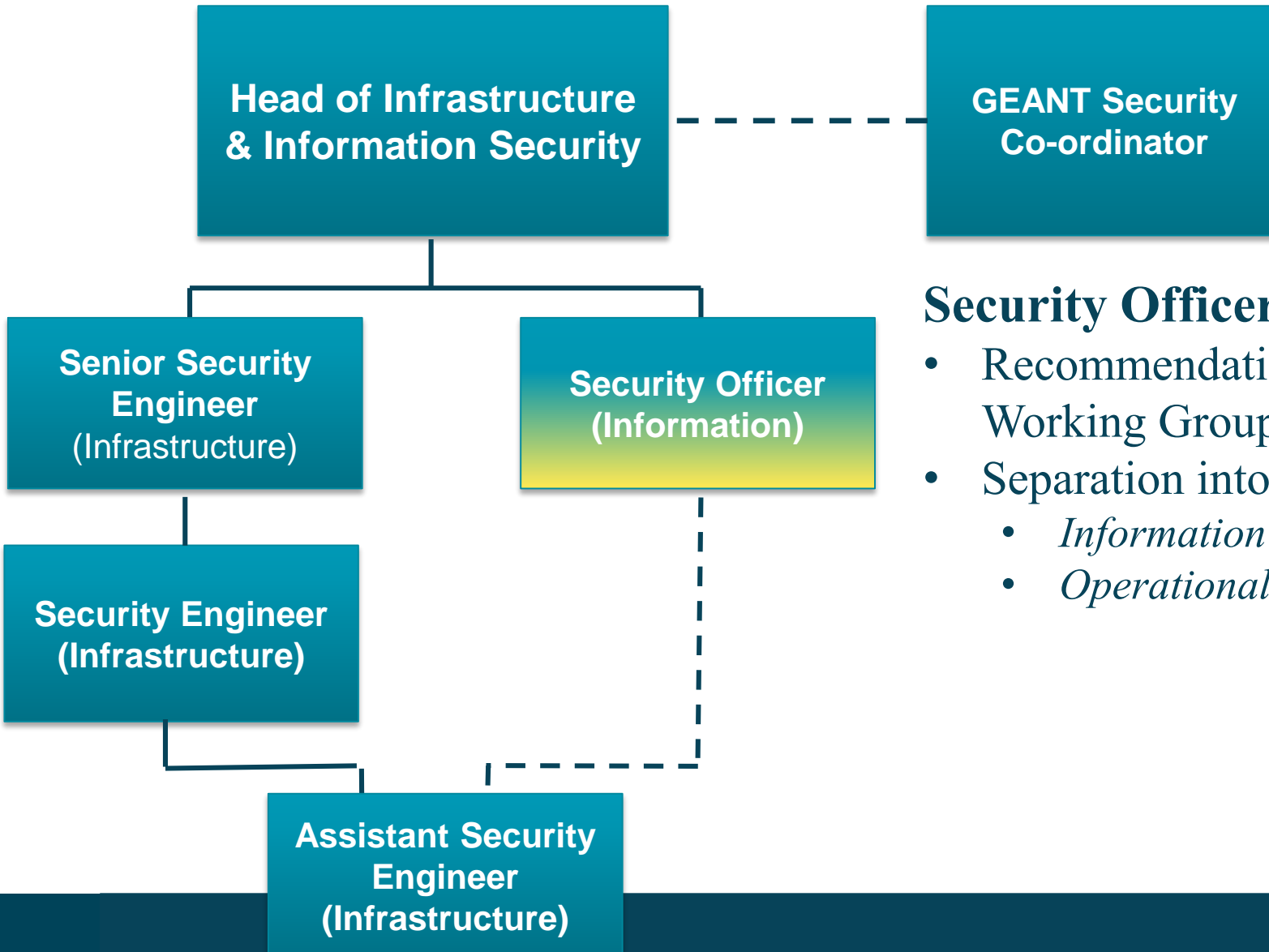


- **New Chances and Threats:**
 - **Cloud Computing**
 - **Mobile Devices**
- **New Challenges:**
 - **Targeted Attacks (APT)**
 - **Large-scale DDoS (Reflector attacks)**
 - **Large increase of number of malware samples and attacks**
- **Increased collaboration among security teams:**
 - **Incident Data Exchange**
 - **IOC**
 - **Trust becomes more and more important**



Security Officer

Security Team - Proposed New Structure



Security Officer Role

- Recommendation of the NREN & ISP Security Working Group
- Separation into
 - *Information Security*
 - *Operational Security (Infrastructure Security)*

- **Security Policies and Guidelines**
 - **Cloud Computing**
 - **BYOD**
 - **AUP**
 - **Review of Incident Handling Processes**
 - **Prepare for TI Certification**
 - **Initiate project for ISO 27001 certification**
- **Important for building trust in the CSIRT community**

- **Following Best Practice**
 - Security Controls to protect the GÉANT Network
 - Enforcing and Auditing Security Policies
 - Data Protection and Security
 - Incident Handling
- **Code of Conduct**
 - Collaboration with constituency and security teams
 - Demonstrating responsibility
 - Providing help and information
- **Security Audit**
 - Following Standards (ISO 27001 Series)
 - Trusted Introducer Accreditation/Certification
 - NREN Security Working Group Review



- **Challenges:**
 - Benefit from Cloud Services and Mobile Devices omitting specific Risks
 - Coping with the loss of governance
 - Selecting the appropriate scope:
 - *Cloud Models (SaaS, PaaS, and IaaS)*
 - *Eligible Mobile Devices and Operating Systems*
- **Preliminary Results:**
 - Survey of Best Practices
 - Requirement collection for both policies
 - *Current and future requirements*

- **Overview:**

- Information Security Standard
- Used to specify a Information Security Management System
- 14 Groups of controls, e.g.:
 - *Information Security Policies*
 - *Human Resources*
 - *Information Security Incident Handling*
 - *Compliance*

- **Approach:**

- Threat Analysis
- Definition of scope: e.g. Focus on DANTE CSIRT
- Implementation of controls
- Further improvement

- **Trusted Introducer:**
 - Clearing House for CSIRTs
 - *Directory of CSIRTs*
 - *Supporting data exchange*
 - Levels of Trust
 - *Registration*
 - *Accreditation*
 - *Certification*
- **TI Certification uses the “SIM3 Model” to assess CSIRTs maturity**
- **Gap Analysis of required documents and TI certification process**

- **Conclusion**

- Separation of operational and information security as advised by the NREN & ISP Security Working Group
- NREN Secondee position to define Security Officer role
- First preliminary results on security polices and TI/ISO 27001 certification

- **Outlook**

- Further work on policy creation and enforcement
- Continuing with the ISO 27001 certification process
- Further involvement of the NREN community:
 - *Continuation of the Security Officer role as NREN Secondee?*
 - *Collaboration with NREN CSIRTs pertaining new security services*



Thank you

Any questions?