



GSMA Service Showcase Live #5

Building resilience into network equipment security

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2022-09-07

GSMA NESAS Process Audits

- GSMA NESAS audit requirements are divided into seven main areas
 - **General requirements:** Version Control System, Change Tracking, Staff Education, Continual Improvement, Sourcing of 3rd Party Components, etc.
 - **Design:** Security by Design
 - **Implementation:** Source Code Review, Source Code Governance
 - **Build:** Automated Build Process, Build Process Management
 - **Testing:** Security Testing
 - **Release:** Software Integrity Protection, Unique Software Release Identifier, Documentation Accuracy, Security Documentation
 - **Operation:** Vulnerability Information Management, Vulnerability Remedy Process, Security Point of Contact, etc.
- Security measures are assessed in terms of coverage, effectiveness, efficiency and application
- In order to verify that the security measures are applied an on-site audit is performed

Schedule

Preparation

Documentation review (1)

Intermediate audit result meeting

Documentation review (2)

On-site audit

Audit report



The entire audit needs to be completed in max. 3 months

How to prepare for a process audit?

- Preparation
 - Document development and product life-cycle processes
 - Get familiar with the newly published NESAS Audit Guidelines (FS.46)
 - Perform internal assessments and verify compliance to the GSMA NESAS requirements
 - Be open and transparent with the auditors, ask questions
- Documentation review
 - Provide information in a structured way
 - Don't forget to mention differences between products lines
- On-site audit
 - Get the right people involved and interviewed

Common issues and resolution

- Common issues
 - Preparation & Documentation
 - Development and life-cycle processes are not documented, outdated or insufficient
 - On-site audit
 - Geographical distribution and time zone differences
- Resolution
 - Preparation is key to success
 - Contact auditors as early as possible