



NESAS

Joint SA3 LT + NESASG LT Meeting on SCAS Improvement

3 Feb 2023

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NESAS Approach



Security assessment of equipment vendors'

- product development processes and
- product lifecycle processes



Product evaluation by competent test labs with jointly defined and standardised security tests



ISO 17025 accreditation of test labs





Problem Statement

- NESAS is applicant of 3GPP-defined SCASes
- NESAS Test Labs require clear guidance on performing tests
 - ISO 17025 requires reproducibility
- NESAS Test Labs, NESAS Group (NESASG) members and regulators have indicated room for improvement
- **Industry should ensure existence of high quality SCASes to avoid regulators identifying the need to create their own**
 - National certification schemes will reference 3GPP SCASes and will rely on their quality
- NESAS Group (NESASG) would like to closely work with SA3 on improving SCAS
- This meeting should identify procedures and activities



SCAS quality improvement – Aspects to Cover

- Consistent use of terms
- Clarity of test case description (pre-conditions, test steps, depth of testing, expected results)
- Definition of terms required
 - Example: term “state-of-the art” with regards to testing in context of level “substantial”
- Consistent coverage of attacker potential across all SCAS
- Vulnerability handling → see next slide



Vulnerability Handling

- Vulnerability testing is part of TS 33.117 – More precise guidance should be given to testers
- Public vulnerability search is required to see which known vulnerabilities exist and the absence is to be tested
 - It is not sufficient to “blindly” run a vulnerability scanner
 - Testers need to know the components of the product and they need to look for known vulnerabilities for each component
- Enhancements regarding vulnerability analysis at the time of product evaluation go into 3GPP TS 33.117; procedures go into FS.47



SCAS quality improvement – Proposed Actions

- Write convincing discussion paper for SA3 that flags the strong need for improvement (NESASG)
- Have dedicated SA3 meeting where we explain our needs and rationale (schedule this today)
 - Invite SA3 to contribute to SCAS improvement
 - Is there room at SA3#110 in Feb for this topic?
- Write CRs to 3GPP TS 33.117 with proposed improvements (NESAG + SA3)
 - NESASG ad-hoc meetings to draft CRs will start on 7 Feb 2023
- Write CRs to NF-specific SCAS with proposed improvements (NESAG + SA3)