

S3-130336

Discussion on SECAM conclusions and next steps

Orange Labs

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presentation to 3GPP SA3



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Goals and scope of SECAM study

- The goal of SECAM was to (from the scope section):
 - study methodologies for specifying network product security assurance and hardening requirements, with associated test cases when feasible
 - assess the suitability of industry standard methodologies and the potential need for collaboration with bodies such as GSMA, CCRA, ISO and ITU
 - conclude which 3GPP network products, if not all, would be subject to 3GPP network product security assurance and hardening requirements
 - assess the extent to which individual 3GPP network products need to be hardened beyond a common baseline and should take into consideration network vs environment

Current status of the study

(based on documents available after SA3#70 or submitted for SA3#71 before the upload of these slides)

- The list of network product classes to assess is available (section 4.4) from SA3#69 onwards and was not challenged since
 - The only open “question” is what to do with Home(e)NodeB
- The question of environment consideration for network product classes is documented and addressed in section 4.1
- A generic description of roles and processes applicable to all methodologies is available in section 4.5
- The question of assurance level and security level per network product class is handled in S3-130333 (SA3#71 contribution)
- A lot of criteria are available in section 6
- Two methodologies are proposed
 - **Methodology 1:** Describing the Common Criteria framework but not concretely describing an application to the context of SECAM yet
 - **Methodology 2:** Specifically built for SECAM, involving accreditation and allowing self-evaluation of accredited actors
 - Almost complete, considering S3-130334 update (SA3#71 document)

Work status in related groups

- GSMA Security Group is informed of the progress of our work and already noted their interest and willingness to help in an LS to SA3#70 (S3-130XXX)
- GSMA SG is evaluating the level of support and resources available to deal with the Certification Body tasks
 - If there is sufficient commitment of support, GSMA SG will set up a sub-group that could ultimately be charged with developing the methodology and accreditation rules
- The topic will be discussed during the next GSMA SG meeting in May 2013

Status of methodology 2 (considering S3-130334 as approved)

- One single security and assurance level per network product class
- A clear instantiation of the generic roles of section 4.5
- A methodology building (documents writing) process
- An accreditation process which details are left to the Certification Body (GSMA)
 - Allows parallel work with GSMA
- A clarification on SAS instantiation and Target of Evaluation (see S3-130335)
- An evaluation process
- A list of available output documents
- An example of the application of the process (see S3-130337)

Open challenges

- Methodology 2 has support for parallel work on multiple network product classes during the normative work
- However, it might be difficult in practice to progress if we try to address all network product classes at once
 - Further prioritization might be needed
 - If we choose to use methodology 2, we will have to discuss with GSMA which network product classes should be handled first

Proposal and schedule

- SECAM is expected for approval at SA3#71. This might be too short to come to conclusions
- Proposal
 - **April 2013:** Propose the TR 33.805 to SA plenary for **information** after this meeting
 - **April 2013:** Send an LS to GSMA SG to get their feedback on potential further prioritization of SA3 work (which network product classes to consider first in the normative work?)
 - **July 2013:** Consider the next meeting SA3#72 as the last meeting to decide on SECAM conclusion
 - So far: methodology 2 satisfies most of the criteria of section 6 and is the only available candidate which is enough detailed
 - Present the TR 33.805 to SA plenary for **approval** after SA3#72
 - **July 2013:** Propose a new WID for the normative work following SECAM at SA3#72

thank you



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