



aSIP-Access Security for IP-Based Services

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Outline of the presentation:

- Overview of the updates in TTS33.203
- Overview of open issues that need to be resolved
- ✤ IETF activities
- How to proceed to get v1.0.0 in place



Updates of TS33.203

- Overview:
 - The SIP-flows are more generic according to a CN1 requirement
 - The ISIM scenarios as specified in earlier SA3 Liaison Statements have been incorporated
 - The Registration flag indicating *Registered*, *Unregistered* and *Register Pending* has been included
 - A new section 5.1.2 *Re-authentication of the subscriber* has been defined
 - In Section 6.1 the single SA requirement between the UE and the P-CSCF has been incorporated



Updates of TS33.203

- Overview:
 - The IMPI has been moved to the EAP part of the SIP message
 - Integrity protection at SIP level has been included in the Annex
 - Generic Security Setup Procedures



Open issues in TS33.203

- Overview:
 - Security for application servers is still open
 - The scenario that the P-CSCF can resist in the HN is missing
 - ✤ It is still open whether it shall be possible for the P-CSCF to require a re-authentication of IMS subscribers
 - Lack of contributions for Visibility and Configurability Section. Shall it be removed from the technical specification?
 - The editors note in Section 5.3 Network Topology Hiding can be removed
 - ✤ How is the IK and the CK transported in SIP? An LS should be sent to CN1.



Open issues in TS33.203

- Overview:
 - What does the *Register Pending* really mean?
 - In Section 11.4.1.5 Network-initiated reauthentication in 24.229v080 there are security requirements defined that are not in line with TS33.203
 - In Section TS33.203 in Security association set-up procedure section should it in order to be generic allow
 Integrity Mechanism List and Confidentiality Mechanism List?
 - ✤ Is there a potential threat that a user could in an INVITE send an IMPU that has no relation to the IMPI of that user?



Open issues in TS33.203

- Overview:
 - Security measures for the ISC-interface is still open
 - Define a list of parameters that are tailored to the ISIM. This shall be put into the TS33.203
 - What scenarios should be covered in the Release 5 framework for the UE functional split?
 - Contributions on IP-address anonymity
 - Contributions on Hiding Mechanisms required
 - Lifetime of the Security association between the UE and the P-CSCF shall be defined



IETF-activities (Status reports required for this and future SA3 meetings):

- Extending EAP with IMS AKA
- Extending HTTP (and SIP) with EAP
- Solutions required in IETF for Security Mode Setup
- * Requirements draft to IETF
- Progress on SIP level integrity protection



How to proceed to get v1.0.0 in place:

✤ It is proposed that the rapporteur includes the decisions from this meeting into the TS33.203 and submits it to the SA3 reflector for email approval.

SA plenary is scheduled for December 17-21 (Week51)

A draft TS33.203v1.0.0 shall be available on the SA3 reflector December 5 and allow for about one week email discussion

TS33.203v1.0.0 available on the reflector December



How to proceed to get v1.0.0 in place:

There is a common understanding in SA3 how the security architecture is defined however there are open issues left related to IETF