SA WG3 Status report for FS_eZTS

Sheeba Backia Mary B.
Lenovo

FS_eZTS Status Over-all Plan

- **26th Feb – 1st Mar meeting (SA3#115, Greece):**
  - **Agreed aspects:** (i) Skeleton-Scope (Stable); (ii) Security Assumptions (Initial); (iii) 4 Usecases to identify data (relevant for security evaluation & monitoring) (Initial); (iv) 1 usecase (relevant to dynamic policy enforcement) (Close to Stable); (v) Partial KI#1 (Initial); and (vi) Annex (Known API Security Risks).

- **15th – 19th April Meeting (SA3#115-Adhoc-e):**
  - **Agreed aspects:** (i) Security Assumptions (Stable); (ii) 4 (existing) + 1 (new) Usecases to identify data (relevant for security evaluation & monitoring) (Close to Stable); (iii) 1 usecase (relevant to dynamic policy enforcement) (Stable); (iv) KI#1 (Stable) ; and (v) Partial New KI#2 (Initial).

- **20th – 24th May Meeting (SA3#116, Korea):**
  - **Agreed aspects:** (i) 5 (existing) + 1 (new) Usecases to identify data (relevant for security evaluation & monitoring) (Close to Stable); ; (ii) Candidate Solutions for KI#1 agreed with ENs (Initial); (iii) KI#2 complete (Stable);

- 19th – 23rd August Meeting **(SA3#117, NL):**
  - **Focus to achieve:** Complete KI#1 Solutions (Stable); Conclusions for KI#1 (Initial/Close to stable); Complete KI#2 Solutions + evaluations (Max Stable);
  - Send TR 33.794 for Info to SA#105

- 14th – 18th Oct Meeting **(SA3#118, India):**
  - **Focus to achieve:** Conclusions for KI & 2 (Stable), TR Clean-up, Send TR 33.794 for approval to SA#106 in Dec 2024.
  - WID Proposal for discussion and approval

- 11th – 15th Nov Meeting **(SA3#119, US):**
  - Initiate and Progress Normative Work

- TBD **(SA3#120 and/or SA3#121, EU):**
  - Complete the Normative Work

SA3#116 May 20th – May 24th, 2024

FS_eZTS Status

TR 33.794 Summary

Key Issues	Solutions	Solution status
KI#1: Data exposure for security evaluation and monitoring	Solution #1, #2, #3, #4 and #5.	Close to stable but to be evaluated
KI#2: Security mechanisms for policy enforcement at the 5G SBA	TBD	NA

SA3#115 Feb-March 2024
- Agreed: Skeleton, Scope, Partly → security assumptions, usecases, and 1 KI. Additional info in Annex.

SA3#115-Adhoc-e April 2024
- Almost stabilized Usecases, KIs and Security assumptions.
- New Usecase, KI#1 completed & KI#2 Initiated.

SA3#116 May 2024
- Progressed with KI#1 Solutions. Stabilized KI#2. Stabilized usecases for data collection.
- **[Last Meeting for New KIs]**

SA3#117 Aug 2024
- Complete Solution and evaluation Phase.
- Initiate Conclusion.
- **[Last Meeting for New Solutions to KIs]**

SA3#118 Oct 2024
- Conclude all KIs and TR clean-up.
- Send for TR for Approval.
- Initiate WID proposal

SA3#119 Nov 2024 to SA3#120 and/or SA3#121 Early 2025
- Progress and stabilize Normative work.

SA3#116 May 20th – May 24th, 2024

FS_eZTS status after SA3#116

UID	Name	Acronym	Rel	WG	Target	Old %	New %	Change or comment
1020034	**Study on enablers for Zero Trust Security**	**FS_eZTS**	Rel-19	S3	Dec 2024	20%	50%	TR 33.794

📶 **General**

- TR 33.794 v0.3.0 contains the following aspects.
  - Scope (Complete)
  - Security Assumptions (Stable)
  - 6 Usecases - Use cases for security evaluation and monitoring (Almost Stable)
    - Use case #1: Information on Malformed Message
    - Use case #2: Massive number of SBI Messages
    - Use case #3: Unauthorized/unauthenticated NF service access request
    - Use case #4: Service discovery
    - Use case #5: Reconnaissance
    - Use case #6: API Security Risks
  - 1 Usecase - Security mechanism for dynamic policy enforcement (Stable)
    - Use Case #1: Access control decision enhancement
  - 2 Key Issues and solutions (In progress)
    - Key Issue #1: Data exposure for security evaluation and monitoring – 5 candidate solutions agreed – Evaluations are TBD.
    - Key Issue #2: Security mechanisms for policy enforcement at the 5G SBA – Candidate solutions are TBD.
  - Annex - Known API Security Risks

📶 **Dependencies:**

- None (the SID has no RAN impacts)

FS_eZTS status after SA3#116

- **SA2/RAN impacts and dependencies**:
  - None for RAN.
  - SA2 – For KI#1 solutions, architectural aspects of the 5GS need to be confirmed by SA WG2.

- **Contentious Issue**:
  - No

- **Focus for the Next Meeting** :
  - Mainly Candidate Solutions completion.

- **Overall Plan**:
  - See dedicated slide (No. 2).

- **Risks:**
  - In SA3#117, for KI#1, if solution type/principle aspects (i.e., data collection and exposure architecture) related consensus if not reached (e.g., for initial conclusion), may impact the progress of entire study & it's completion.