Time-Based Uni-Directional Attestation

https://datatracker.ietf.org/doc/draft-birkholz-tuda/

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Contribution

• TUDA also utilizes a trusted Time Stamp Authority (TSA) as an additional third party in the attestation activity
  • next to the attestee and the verifier.
• No nonce / challenge-response interaction model is required between attestee and verifier.
Objectives

• increase the confidence in authentication and authorization procedures,
• address the requirements of constrained-node networks,
• support interaction models that do not maintain connection-state over time, such as REST architectures [REST],
• be able to leverage existing management interfaces, such as SNMP [RFC3411]. RESTCONF [RFC8040] or CoMI [I-D.ietf-core-comi] – and corresponding bindings,
• support broadcast and multicast schemes (e.g. [IEEE1609]),
• be able to cope with temporary loss of connectivity, and to
• provide trustworthy audit logs of past endpoint states.