Using Netconf Pub/Sub Model for RATS Interaction Procedure

https://datatracker.ietf.org/doc/draft-xia-rats-pubsub-model/

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Recall

- Use NETCONF Pub/Sub mechanisms
  - Verifier Subscribes to event stream from Attester
  - Attester Records happened event
  - Attester Publishes event record to Verifier

- Suitable use cases
  - On-change RA, 1:N or N:M relationship, medium or large network...
  - A Verifier needs to continuously and timely appraisal the Attester (draft-voit-rats-trusted-path-routing)

- Benefits
  - Inherited from YANG Pub/Sub & YANG Push mechanism
  - Flexibility, Efficiency, Scalability, Filtering capability, etc.
Key Points

• Scope of this document
  - Suitable for TPM-based network devices
  - Based on draft-ietf-rats-yang-tpm-charra

• Modules which need to be further detailedly defined
  - Event Streams Definition
  - Subscription Definition
  - Notification Definition
  - Filter Definition
  - Event Configuration Definition

• Freshness
  - Time-based mechanisms to ensure freshness, such as TUDA
  - Nonce + periodic notification
  - ......
Next Steps

• Update the draft, define detail modules
• More reviews, comments
Thank you!