SCiON

Updates and Q&A

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SCION Deployments and Other Updates

• Swiss Finance network to be fully migrated to SCION (SSFN) by Sept 2024
  source: SIX Group

• Swiss national healthcare network adopts SCION for their trustworthy communication
  source: Health InfoNet

• SCION Education network rolling out in collaboration with Geant
  source: Geant/OVGu Magdeburg

• SCION Association maintaining open source implementation, building up and facilitating community
SCION Drafts: Recap

SCION Overview
draft-dekater-panrg-scion-overview-03

SCION Component Analysis
draft-rustignoli-panrg-scion-components-02

- Control Plane PKI
  Authentication
draft-dekater-scion-pki-02

- Control Plane
  Routing
  Available before IETF117

- Data Plane
  Packet forwarding
  Available by Q3

Last discussion at PANRG interim Sept. 2022
Updates to component analysis

• Adapted term SCION “end hosts” to “endpoints” (in line with draft-irtf-panrg-path-properties)
• Mention potential relationship between SCION Data Plane - IPv6 EH
• References
• TODO:
  • Extend on interoperability
  • Further terminology review

draft-rustignoli-panrg-scion-components-02
Updates to draft-dekater-panrg-scion-overview

• Minor changes only: references, authors, language
• TODO:
  • shorten components descriptions once main components drafts are available
  • Extend deployments section with use cases
  • Add life of a packet
  • Add diagrams
  • Language (according to draft-irtf-panrg-path-properties)?
SCION Control-Plane PKI Internet-Draft: updates

- Addressed feedback from various reviewers (Russ Housley, SCION dev community)
- Corrected the number allocations of the SCION Isolation Domains
- Extensively revised and shortened the “Certificate Specification” section:
  - Only one descriptive section per certificate type
  - No extensive description of each X.509 v3 certificate field - just a short overview
    → Draft focusses on SCION specific constraint and conditions
  - Extensions: No longer described per certificate type. Instead, differences between certificate types described per extension
- Moved the detailed description of the Signing Ceremony of the Base TRC to an appendix
- Improved References
Questions?

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