



Path-aware Interdomain Architecture Updates

HotRFC - IETF 118
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SCION Association

SCION – context

- SCION is an Internet architecture that fills gaps in several areas:
 - *Inter-domain* path-aware networking
 - Trust-enhanced networking (e.g. geofencing)
 - Routing security (path authorization/path validation)
- There is deployment experience:
 - Productive finance, healthcare network in Switzerland
 - More being evaluated (government, energy, DLTs)
- There are multiple implementations of SCION
- SCION can get even better with community feedback

Current drafts

We want to find a space for SCION at the IETF:

- Now documenting the current protocol as implemented in existing deployments
- In the long term use the initial specification for future IETF work to evolve the protocol

Control Plane PKI
Authentication
[draft-dekater-scion-pki](#)

Control Plane
Routing
[draft-dekater-scion-controlplane](#)

Data Plane
Packet forwarding
[draft-dekater-scion-dataplane](#)

SCION Overview
[draft-dekater-panrg-scion-overview](#)

SCION Component Analysis
[draft-rustignoli-panrg-scion-components](#)

SCION at this IETF

- Hackdemo happy hour – Tomorrow 18:30-19:30
- Extended PANRG discussion – Tomorrow 13:00-15:00
 - Drafts
 - Deployment experience by Anapaya (SCION vendor)
 - User experience in the finance industry (SIX Swiss Exchange)
 - Discussion on the next steps within IETF/IRTF
- Path validation side meeting – Tuesday 18:30-20:00

We need you

- Comment and review on our drafts
- Support us in getting the right space within the IETF/IRTF

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Feedback & Collaboration Welcome!