Proposal for a SCION Working Group

Birds of a Feather Session at RIPE82

David Hausheer (OVGU Magdeburg), Adrian Perrig (ETH Zurich)
Welcome

• Thanks to the RIPE82 organizers and PC
• Thanks to all the BoF speakers, supporters, and participants
• Thanks to Caspar Schutijser (SIDN Labs) for serving as secretary
Logistics

• How to ask a question:
  • Ask for audio and video access: press on mic (and video) icon at the top
  • Write a question: press ‘Q&A’ icon and include your affiliation in your question
What this SCION BoF is about

- **SCION**: A Novel Internet Architecture

- Second BoF follows up on the momentum created by the first BoF@RIPE81
  - Should RIRs assist with registration of SCION resources (SCION ISDs, ASNs)?
  - Should RIRs take on similar role as in RPKI for issuing SCION AS certificates?

- Discuss Proposal for a SCION Working Group at RIPE
Agenda

- David Hausheer (OVGU Magdeburg): Welcome and Introduction (5’)
- Samuel Hitz (Anapaya): SCION ISD Registration, AS Numbers, and Certificates (10’)
- Fritz Steinmann (SIX): SCION Challenges and Risks for Certificate Issuing and AS Number Assignment on the Example of the Secure Swiss Finance Network (5’)
- BoF Discussion: SCION RIPE WG Charter and Goals (40’)
  - Moderators: David Hausheer (OVGU), Adrian Perrig (ETHZ), Stavros Konstantaras (AMS-IX)
  - Secretary: Caspar Schutijser (SIDN Labs)
  - Supporters: Jeroen van de Lagemaat (NDIX), Joeri de Ruiter (SIDN Labs), Steven Bakker (AMS-IX), Simon Leinen (SWITCH), Marijke Kaat (SURF), Ronald van der Pol (SURF), Daniel Kopp (DE-CIX)
Poll – Two Questions to Begin With

• Caspar Schutijser (SIDN Labs)

• Were you at the previous SCION BoF?

• What is your experience with SCION?
  • None
  • I heard about it
  • I played with it
  • Practical experience
  • I’m an expert.

Press the poll symbol
BoF Discussion: SCION RIPE WG Charter and Goals (Draft Proposal)

The SCION WG will:

• Raise awareness in the RIPE community about the role of RIRs and LIRs in the SCION architecture
• Facilitate discussion about registration of SCION resources: establishment of SCION ISDs, assignment of SCION AS numbers, provision of SCION AS certificates (similar to the role of RIRs in RPKI)
• Define, discuss and set up a pilot for the registration and certification of SCION resources:
  • Year 1: Deliver a first version of the pilot specification
  • Year 2: First pilot implementation, collection of feedback and experience
  • Year 3: Define and implement revised version of the specification
  • Year 4: Consider permanent implementation of the SCION registry and certification
• Hold sessions during RIPE meetings twice a year, and remote sessions outside of RIPE meetings
• Monitor and take part in related WGs: Address Policy WG, Routing WG, RIPE NCC Services WG
BoF Discussion Items

- SCION WG: Why we need it
  - Relation to other RIPE WGs: Address Policy, Routing, RIPE NCC Services
- Standardization plans
- Pilot for the registration and certification of SCION resources
  - Planned deliverables and timeline
  - Request to RIPE NCC to give out the SCION ISD and AS numbers
- WG organisation: Type of meetings, chair selection scheme, etc.
Wrap-up

- Slides are available here:
  - https://ripe82.ripe.net/presentations/presentation-archive/