SCONEPRO Questions from IETF 119

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Current status after IETF 119

- We've had many post-IETF 119 discussions about SCONEPRO
  - Directly on the SADCDN mailing list, and reflected on the mailing list from GitHub
- Eight drafts with -SCONEPRO- in the filename have been submitted
  - Most are intended to answer questions raised at the IETF 119 BOF
  - This presentation isn't about those drafts
- The proposed SCONEPRO charter has changed significantly
  - Just in the past month, we've merged 8 PRs and closed 19 issues
  - A number of the "closed" issues cover topics that should be addressed by a WG
  - This presentation isn't a review of issues and PRs, whether open or closed, or the curcharter text
- Please help us identify any open questions that we've missed
  - The chairs allocated time for discussion of all open questions later in the agenda.
Scope of the SCONEPRO protocol

- We have focused pretty clearly on
  - network-to-host signaling
  - all networks (not just mobile)

- **List of out of scope items in the charter!**
  - That was our takeaway from IETF 119 BOF, and from our AD

- **Are we doing the right thing?**
  - The chairs will ask this question during our discussion time
Extensibility

- We have focused on one, very specific, use case with one goal
  - The target media must be ABR video carried in QUIC
  - Network properties must be related to improving throughput
- The current charter reflects this
  - "primary objective is to specify a 'maximum achievable throughput' property"
- Are we doing the right thing?
  - The chairs will ask this question during our discussion time
Privacy

● There's an ongoing conversation about the impact on user privacy
  ○ When a host "opts in" to SCONEPRO, the carrier knows this is for ABR video
  ○ We recognize that this is telling the carrier something explicitly
  ○ The carriers already know about ABR video usage

● Privacy analysis would be an ongoing activity
  ○ So, properly performed by the working group, as part of protocol specification

● Are we doing the right thing?
  ○ The chairs will ask this question during our discussion time
Security and Trust

● SCONEPRO requires at least some host-network trust
  ○ A SCONEPRO host would be believing the network on what's achievable

● We reported some results from a proof of concept at IETF 119
  ○ These results showed that the broad strokes are possible
  ○ We are not proposing a specific design from that POC

● We think SCONEPRO is optional and advisory
  ○ No one has to use SCONEPRO, and no one has to use SCONEPRO
  ○ …for both endpoints and the network

● Are we doing the right thing?
  ○ The chairs will ask this question during our discussion time
Aligned Incentives

- **Internet Video Users**
  - Improved quality of experience when shaping would have been used
  - Equal opportunity for smaller video providers

- **Carriers and operators**
  - Traffic shaping is computationally intensive and prone to errors
  - Many errors are due to carriers using heuristics in the absence of information

- **Are we doing the right thing?**
  - The chairs will ask this question during our discussion time
Net Neutrality

- This was raised at the IETF 119 BOF and discussed in many places
  - SCONEPRO is fundamentally not changing anything.
  - This is an "Internet tussle" between Internet goals and carrier realities
- Are we doing the right thing?
  - The chairs will ask this question during our discussion time