

TSVAREA

IETF86

Orlando, FL, USA

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Agenda

- Note Well
 - Scribes!
 - Jabber scribes!
- Administrative Issues (5 minutes)
- SCTP Tutorial (55 minutes)
 - Slides:
<http://www.ietf.org/proceedings/86/slides/slides-86-tsvarea-0.pdf>
- Open Mic about "AQM in the IETF" (30 minutes)
 - Slides:
<http://www.ietf.org/proceedings/86/slides/slides-86-tsvarea-1.pptx>
- Open Mic about "Area Expectations for the TSV ADs" (60 minutes)
 - Slides: this slide set here.

Area News

- WG closed
 - FECFRAME WG: successfully completed its chartered work
- Looking for new co-chair for CDNI WG
- Wes stepping down as AD
- The vacant AD position is not staffed right now
- There is only a single AD right now: Martin

Office Hours

- Office hours to meet the Transport ADs
- Wednesday, 13:00-15:00
- In Room Boca 3

Open Mic about
"Area Expectations for the TSV ADs"

Background Info

- Transport ADs noticed issues with finding a new Transport AD in the last months
 - Out of publicly available information
 - i.e., two calls for candidates after the first, regular call.
 - The Transport ADs believe that there might be an issue with the desired expertise
- The following open mic discussion of the desired expertise is for the future, **not** about the current NOMCOM process.
- Neither of us (IESG nor community) knows about the internals of the NOMCOM. And there is no intention to interfere with the NOMCOM process.

Purpose of this Open Mic

- Give the community the chance to discuss the desired expertise for Transport ADs.

Mode of Operation

- ADs will leave the stage after the introduction
- Hand over to the moderator: Allison Mankin
- Some things to note well:
 - **do not** discuss candidates
 - **no** electioneering
 - **do not** discuss NOMCOM
 - **do not** discuss the confirming body

Questions to the Community

- Are you aware of the existing description of the desired expertise for ADs.
 - <https://www.ietf.org/group/nomcom/2012/iesg-requirements>
 - And the next slides
- review the description
- does the community agree with it?
- is it reasonable, or is it asking too much?
- which **technical topics** are part of the Transport Area and crucial to have an AD that is experienced in these topics

Desired Expertise (1/4)

- Both Transport ADs are expected to
 - understand how transport technologies (layer 4) interact with IP layer technologies
 - and protocols (layer 3) technologies,
 - and with the end-to-end aspects of various applications and application-layer protocols (layer 7).
- An AD should have core end-to-end transport expertise
- congestion control, flow control, real-time transport protocols, NATs, firewalls.
- includes mechanisms to detect and react to congestion in the Internet, such as the congestion control algorithms in transport control protocols such as TCP, SCTP, MPTCP, and DCCP,
- as well as congestion management schemes such as CONEX.
- Some topics in transport mechanisms have strong ties to the research community, therefore some research background can be very helpful.

Desired Expertise (2/4)

- A Transport AD should also understand
 - how transport layer technologies and protocols, such as NATs and firewalls, impact the end-to-end effectiveness of applications,
 - and how transport technologies and protocols can help to improve the end-to-end effectiveness of various applications.
 - Intserv (RSVP) technologies reserve resources to improve quality of service;
 - Diffserv is an inline mechanism to request a quality of service during forwarding;
 - Network-attached storage (NAS and NFS),
 - and storage area networks (SAN, iSCSI, and Fibre Channel) help coordinate storage inside and between data centers, for virtualized environments, for large streaming applications, and remote replication for high availability;
 - Signaling and control protocols for peer-to-peer traffic optimization help to avoid congestion in the Internet, by using trackers, background transfers, and in-network storage.

Desired Expertise (3/4)

- Current and new transport work includes
 - congestion signaling and reporting,
 - forward error correction,
 - QoS and reservation signaling,
 - DiffServ and congestion control for unresponsive flows,
 - NAT regularization and specification,
 - storage protocols for the Internet,
 - peer-to-peer streaming,
 - performance metrics for Internet paths,
 - experimentation with congestion control schemes developed in the IRTF,
 - multipath extensions to existing transport protocols,
 - congestion control for "background" bulk transfers,
 - and extensions to the IETF protocols for multimedia transport.

Desired Expertise (4/4)

- The Transport Area intersects most frequently with Internet Area, the Applications Area, the RAI Area, the Security Area, and several IRTF research groups.
- Cross-area expertise in any of those Areas would be particularly useful.

What's Important?

- It would be good to understand which of the following topics are:
 - (a) essential for both TSV ADs to be strong in
 - (b) essential for at least one TSV AD to be strong in
 - (c) desirable for at least one TSV AD to be strong in
- (1) congestion control algorithms
- (2) NAT (and CGN, NAT64, etc)
- (3) transport protocols (TCP, SCTP, MPTCP, DCCP)
- (4) QoS (IntServ/RSVP, DiffServ, ... NSIS?)
- (5) storage (NAS and SAN protocols)
- (6) P2P protocols
- (7) FEC coding
- (8) multicast

And now let's talk about it.