

PLUS:

# Path Layer UDP Substrate

Birds of a Feather (BoF) Meeting

IETF-96

Berlin

July 2016



# PLUS BoF

Chairs' Introduction





# Agenda

Introduction: Chairs (10 mins)

Specific Problem Areas Presentations (30 min):

Enterprise operator viewpoint: Joe Hildebrand

Mobile operator viewpoint: Natasha Rooney

Architectural viewpoint: Ted Hardie

Technical Proposal & Relevant Discussion: Brian (30 mins)

Charter review: Chairs (15 mins)

Charter Discussion: BoF attendees (60 mins)

# BoF Goals

- This is a “working group forming” BoF
- Is the need understood?
- Is the proposal understood?
- Is there a community that is energized to do the work?
- Are there any critical conflicts or show-stoppers?

# Not Today's Focus

- Implementation details
- Protocol design
- SPUD prototype
- Other ratholes (ITOOTC)<sup>†</sup>

†: “In the opinion of the chairs”

# Consensus Questions

Is the problem statement clear, well-scoped, solvable, & useful to solve?  
(yes/no/discuss)

Who is willing to review documents or comment to the list? (show of hands)

Who is willing to edit documents? (show of hands)

Should the IETF form a WG with the charter discussed today? (yes/no/discuss)

# Charter - Scope Key Points

- Shim-layer protocol above UDP implementable in user-space
- Supports ubiquitous deployment of encrypted higher layer protocols
- Transport-independent exposure of TCP-like flow semantics to devices on path
- Permits other explicit signalling to be exposed from apps/TSV to path
- Enables devices on path to signal to sender, under sender control

# Charter - Deliverables

- Experimental protocol specification
- Must consider vulnerabilities
- Initial registry of types of information that can be exposed using PLUS
- Implementation
- Running code with WebRTC data channel, QUIC

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- Experimental protocol specification
- Must consider vulnerabilities
- Initial registry of types of information that can be exposed using PLUS
- Implementation
- Running code with WebRTC data channel, QUIC, TCP, SCTP, TAPS, DCCP, my cat

# Backup

# Every BoF get driven off the rails when someone says...

IPv6

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~~IPv6~~

MULTICAST