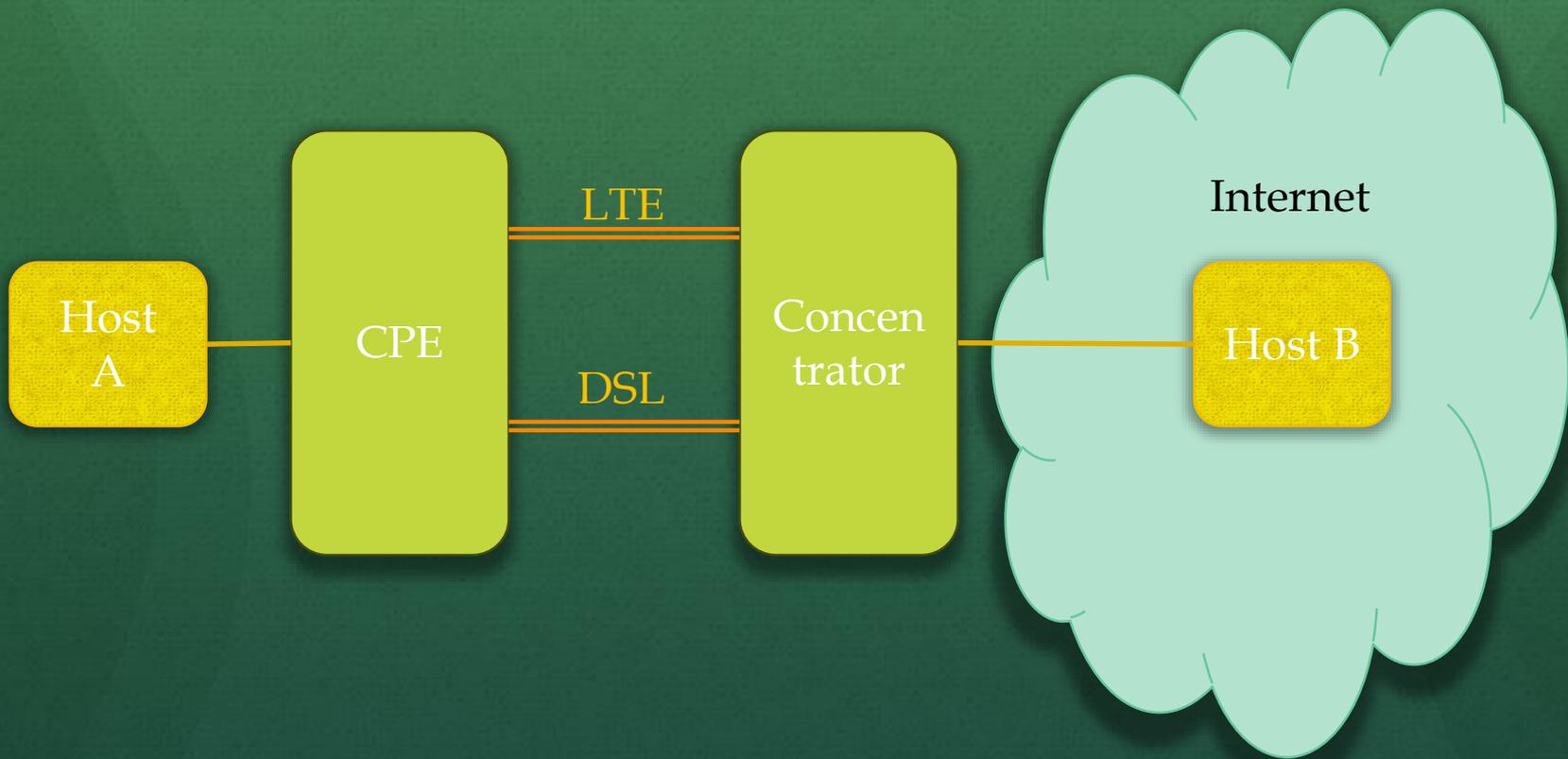


Bandwidth Aggregation for Network Access (BANANA)

IETF 96 - Berlin, Germany

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BANANA Scenario



Proposed Solutions

- MPTCP Proposal(s) (will be merged into one)
 - <https://datatracker.ietf.org/doc/draft-boucadair-mptcp-plain-mode/>
 - <https://datatracker.ietf.org/doc/draft-peirens-mptcp-transparent/>
- GRE Tunnel-Based Proposals
 - GRE Tunnel Bonding
<https://datatracker.ietf.org/doc/draft-zhang-gre-tunnel-bonding/>
- Other solutions (MIP-based, LISP-based, etc.) do not appear to have currently active drafts

Other BANANA Drafts

- Problem Statement: Bandwidth Aggregation for Internet Access
 - <https://datatracker.ietf.org/doc/draft-zhang-banana-problem-statement/>
- Considerations for Bandwidth Aggregation
 - <https://datatracker.ietf.org/doc/draft-mrc-banana-considerations/>

BANANA Considerations

- Per-flow vs. Per-Packet multiplexing?
- UDP load-balanced or bypassed?
- End-to-end TCP connections vs. middlebox termination?
- MTU and fragmentation handling?
- IP address usage?

BANANA Considerations

- Different solutions entail different trade-offs
- One solution for all? Or multiple solutions for multiple deployment scenarios?
- Considerations document attempts to provide a good explanation of the trade-offs, not to select a single proposal.

BANANA Bar BOF

- Tonight from 8:00pm to 10:00pm in Shoeneberg
- Agenda Items:
 - Related Broadband Forum (BBF) Work
 - MPTCP Solution(s)
 - Update on GRE Tunnel Bonding Deployment
 - Considerations
 - Common Work/Next Steps
- BANANA mailing list: banana@ietf.org
 - To subscribe:
<https://www.ietf.org/mailman/listinfo/banana>

Continue Work?

- Some of this work currently has no IETF home:
 - Problem Statement/Considerations
 - Standard GRE Tunnel-based solution
 - MPTCP-based solution?
- Is this work we should be doing in the IETF?
- If so, where/how?
 - Bring it here to INTAREA?
 - Hold a real BOF, and consider forming a WG?