

Issues with CAPWAP

Transport Area comments

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Items

- UDP Checksum
- PMTU Discovery
- Congestion Control
- Performance of lock-step
- NAT Traversal

UDP checksum

- Performance is not a reason for skipping the UDP checksum
- Redundancy is a plausible reason
- But for IPv6...
 - UDP-Lite has potential for middle box traversal issues

PMTU Discovery

- Avoiding IP fragmentation is good
 - Some middle boxes drop IP fragments
- Blindly limiting to the minimum size can impact performance
- A solution based on RFC 4821 could be built using existing protocol elements

Congestion Control

- All protocols need to consider congestion control (RFC 2914) (fairness and collapse)
- If any traffic tunneled over the data channel is not IP, congestion control will be needed.

NAT Traversal

- Not a full-blown any-case works solution
- Doesn't describe very well the cases in which it doesn't work
- E.g., how do you get a message to the AC when it is behind a NAT?
- Are there scenarios that should not be supported? (to clarify things)