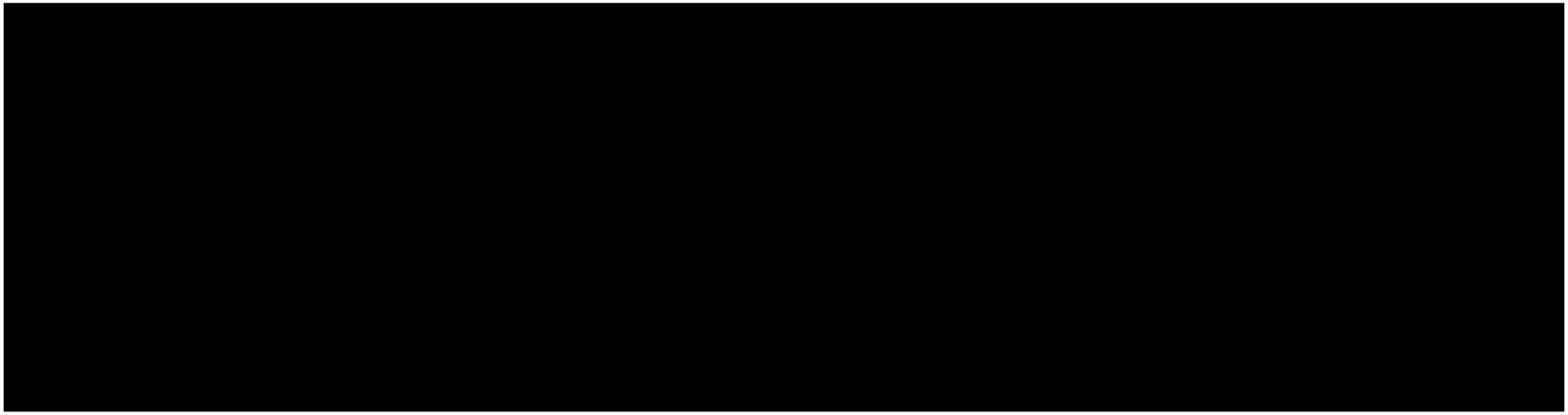
DLEP Research Group

IETF 88 Vancouver

DLEP Research Group

Some text redacted



DLEP Research Group

JOKE!

- In case you are reading this after the event

NOTHING is redacted

DLEP Research Group

- Formed to advance progress on the DLEP draft
- Mailing list discussion archive at http://www.ietf.org/mail-archive/web/manet-dlep-rg/current/maillist.html
- Closed list membership of active DLEP developers to make faster progress (but open to new members by group consensus)

Progress to date

- Group formed at Berlin (IETF 87)
- F2F discussion followed by work items
- Five papers (posted to mailing list) reporting on radio metrics generated by:
  - 3G/4G/LTE and BGAN
  - Wi-Fi and Software Defined Radios
  - legacy military radios
  - mesh networking radios
  - vehicle/aircraft tactical radios

IETF 88 Meeting

- Met on Tuesday morning
  - Defined core metric set (almost)
  - Defined optional metric semantics
  - Reliable transport and heartbeats
  - Agreed work items and timescales for draft-05
  - Agreed to push back advanced topics

Core Metric Set

- Maximum Data Rate (MDR) – Tx and Rx
- Current Data Rate (CDR) – Tx and Rx
- Relative Link Quality (RLQ)
  - Text to be tightened/clarified
- Latency – Almost defined!
  - EFT metric being evaluated by Henning Rogge

Everything else is an extension!

Optional Metric Semantics

- Per-session metric set advertised at session creation
  - Initial values supplied in the Peer Offer message
  - May be overridden at Neighbor Up
  - May be overridden with Neighbor Update

Reliable Transport

- TCP is the required transport protocol
  - Secondary protocols are permitted
  - Reliability semantics of messages to be clearly defined
  - No requirement for TCP keep-alive
- Heartbeat rules altered
  - Because we now use reliable transport
  - Recommendations on thresholds for session termination

Dlep-05 work items and schedule

- We will deliver dlep-05 before IETF 89
  - Core agreed items
- There will be a dlep-06 before last-call
  - We want to demonstrate progress
  - Some topics still under discussion
  - Incorporate MANET WG feedback

Dlep-06 Topics

- Broadcast/Multicast 'Neighbor' metrics
- Link Characteristic Requests / Flow Control Messages
  - Want to generalize mechanism so that it can be extended to other 'set' processes.
- Other things we MUST have in core specification
  - But there better be a good reason!

Next...

- We want to re-charter the design team
  - The format seems to work
  - We will produce two more drafts
  - Complete at IETF 90 - Toronto 2014

Conclusion

- Missed our initial deadline
- Did make progress
- Much more progress planned
- DLEP will happen!