IETF 115 Session title
MANET November 2022

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Note Well

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Definitive information is in the documents listed below and other IETF BCPs. For advice, please talk to WG chairs or ADs:

- BCP 9 (Internet Standards Process)
- BCP 25 (Working Group processes)
- BCP 25 (Anti-Harassment Procedures)
- BCP 54 (Code of Conduct)
- BCP 78 (Copyright)
- BCP 79 (Patents, Participation)
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- Use of a headset is strongly recommended
Resources for IETF 115 London

- Agenda
  [https://datatracker.ietf.org/meeting/agenda](https://datatracker.ietf.org/meeting/agenda)
- Meetecho and other information:
  [https://www.ietf.org/how/meetings/115/preparation](https://www.ietf.org/how/meetings/115/preparation)
- If you need technical assistance, see the Reporting Issues page:
Resources for this session

**Meetecho:**
https://meetings.conf.meetecho.com/ietf115/?group=manet&short=&item=1

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https://zulip.ietf.org/#narrow/stream/manet

**Notepad (any volunteers?):**
https://notes.ietf.org/notes-ietf-115-manet
Agenda

1. Chairs' Introduction (5 min)
   ▪ Note Well, Agenda bashing
2. Internet-Draft status - chairs (10 min)
3. IETF-114 Joint Babel/ROLL/MANET session follow-up - chairs (10 min)
4. DTNMA Updates – Sarah Heiner (15 min)
5. Rechartering discussion - all (20 min)
• The first three of these are (still) under TSV-ART early review. David Black did a thorough job: 6 major and 12 minor issues flagged. Authors are resolving / dispelling these. Convergence is happening, but some issues are still open. (See next slide)
• draft-ietf-manet-dlep-ether-credit-extension needs to be added to the pack.
• Need to complete document shepherd write-ups, but...
• Next step: RTG-ART review?
Credit-based flow control open issues

- **Major - Number of documents:** record in shepherd’s write-up. WG’s decision (IETF113) not to merge documents as advised by David Black.
- **Major - Flow match criteria:** can there be multiple TIDs per destination?; if so, which one applies?
- **Major - “Router MAY ignore flow control”:** if resource-constrained.
- **Major - Credit Window Initialization vs. in-flight traffic:** motivate why this is not a problem.
- **Minor - Handling of unexpected / incongruous Data Items:** insufficient to refer to general Data Item error handling described in RFC 8175?
Recap: Credit-based Flow Control I-Ds

draft-ietf-manet-dlep-credit-flow-control
- Credit Control Message
- Credit Control Response Message
- Credit Window Initialization Data Item
- Credit Window Association Data Item
- Credit Window Grant Data Item
- Credit Window Status Data Item
- Credit Window Request Data Item

draft-ietf-manet-dlep-traffic-classification
- Traffic Classification Data Item
- DiffServ Traffic Classification Sub-Data Item
- Ethernet Traffic Classification Sub-Data Item

draft-ietf-manet-dlep-da-credit-extension
- DiffServ Aware Credit Window Extension Type

draft-ietf-manet-dlep-ether-credit-extension
- IEEE 802.1Q Aware Credit Window Extension Type
draft-ietf-manet-dlep-credit-flow-control
- Credit Control Message
- Credit Control Response Message,
- Credit Window Initialization Data Item
- Credit Window Association Data Item
- Credit Window Grant Data Item
- Credit Window Status Data Item
- Credit Window Request Data Item

draft-ietf-manet-dlep-traffic-classification
- Traffic Classification Data Item
- DiffServ Traffic Classification Sub-Data Item
- Ethernet Traffic Classification Sub-Data Item

draft-ietf-manet-dlep-da-credit-extension
- DiffServe Aware Credit Window Extension Type

draft-ietf-manet-dlep-ether-credit-extension
- IEEE 802.1Q Aware Credit Window Extension Type
• No progress since IETF-113
• WG adoption call for draft-rogge-manet-dlep-radio-band around IETF-113: some technical comments received, but no “support” / “do not support”
• Issue another adoption call for all three I-Ds?
A few takeaways

• Some confusion among non-MANET participants around Duplicate Packet Detection. It is well understood that when sources originate identical packets, these should not be discarded. (RFC 6621, sec. 6)

• Data plane implementation aspects need to be addressed, but not necessarily by the IETF.

• The applicability of BIER to MANETs should be explored further. David Lamparter has begun work on a use cases / gap analysis draft for BIER over L2 multicast: draft-lamparter-bier-manet-multicast-links-00

• Multicast integration of MANETs with (wired) infrastructure networks should be possible.
Rechartering Discussion

- Current charter ([https://datatracker.ietf.org/wg/manet/about/](https://datatracker.ietf.org/wg/manet/about/)): OLSRv2 maintenance, DLEP, DLEP flow control, DLEP traffic classification statistics (?), multicast protocol framework / multicast FIB, documenting challenges / best practices for deploying / managing MANETs
- Which items would we keep? Which items would we like to add?
- Some candidates: DTNMA for MANET, bitstring-based multicast, multicast interworking with external networks, …
- Incorporate Babel?