

26 September 2023

MANET WG interim virtual meeting

This session is being recorded

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)
- <https://www.ietf.org/privacy-policy/>(Privacy Policy)

Note Really Well

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Resources for this session

Remote instructions:

<https://meetings.conf.meetecho.com/interim/?short=bf2df42e-cd31-47ca-8c79-917322c7ca4b>

Agenda:

<https://datatracker.ietf.org/meeting/interim-2023-manet-01/materials/agenda-interim-2023-manet-01-manet-01-00>

Session materials:

<https://datatracker.ietf.org/meeting/interim-2023-manet-01/session/manet>

AGENDA

1. Chairs' Introduction (5 min)
 - Note Well, etc.
 - Agenda bashing
 - Notetaker(s)
2. The Assimilation of BABEL by MANET – Donald Eastlake
3. Discussion on Work Items for new WG Charter
4. AOB - (time permitting)

Work Items for new WG charter discussion - 1

- MANET needs to recharter in order to be able to take on new work and to formalize the “assimilation” of Babel
- Discussion on new charter items will be started in this session and (hopefully) continued on the ML
 - Approach is to start from a long list and reduce this to a ‘manageable’ number of Work Items
 - Perhaps the most important criterion is the expressed willingness by WG participants to contribute to the completion of a Work Item

Work Items for new WG charter discussion - 2

Current charter (<https://datatracker.ietf.org/wg/manet/about/>), explicit work items:

- Develop a dynamic link exchange protocol (DLEP) – **Done**
- DLEP extension to provide a credit-windowing scheme for destination-specific flow control – **Nearly done**
- DLEP extensions for reporting statistics by traffic classification – **Never undertaken**; traffic classification is there, but not the reporting of statistics. **Drop?**
- Multicast MANET protocol framework based on Simplified Multicast Forwarding [[RFC 6621](#)] for scoped forwarding within MANET networks. As part of this framework the WG will produce a well defined MANET multicast forwarding information base (FIB) – **Never undertaken**; no real work on MANET multicast since last charter revision in 2016; ideas discussed during ROLL/Babel/MANET session at IETF 114. **Keep?**
- Document outlining challenges and best practices for deploying and managing MANET networks – **Never undertaken, to be abandoned**

Work Items for new WG charter discussion - 2

Current charter, implicit work item:

- The MANET WG is responsible for the maintenance of OLSRv2 [[RFC 7181](#)], NHDP [[RFC 6130](#)] and the Generalized MANET Packet/Message Format [[RFC5444](#)], and their extensions – **Keep, no-brainer**. Potential topics:
 - Guidance on OLSRv2 restart
 - RFC 7779 (DAT Metric) to Proposed Standard
 - RFC 7722 (Multi-Topology Extension to OLSRv2) to Proposed Standard
 - Others?

Work Items for new WG charter discussion - 3

Potential **new** work items on the revised charter:

- DLEP Maintenance & Extensions – **No-brainer**
- Babel Maintenance & Extensions – **No-brainer**
- Babel for IEEE 802.11 (Wi-Fi) Mesh – **For discussion**
- Energy-efficient routing in MANETs – **For discussion**
- New approaches to multicast in MANETs – **For discussion**
 - Bitstring-based (inspired by BIER)
 - Federation of heterogeneous MANETs with different (proprietary) solutions
- Autonomous / ‘asynchronous’ management for MANETs – **For discussion, more speculative.** (Former AD: “I don’t want to see a DTNMA for MANET”)
- Reactive MANET routing protocol – **We failed before with AODVv2**
- Hybrid (pro-active / reactive) routing protocol – **For discussion, need Reactive first?**
- Other topics that WG participants would want to work on?