

19 March 2024

MANET WG Charter Discussion

Internet Engineering Task Force
Production by Meetecho



Work Items for new WG charter discussion - 1

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, obvious.**

Potential topics:

- Guidance on use of (lesser known) OLSRv2 features to accommodate specific use cases (informational document)
- Hybrid proactive / reactive operation based on an OLSRv2 extension
- Hybrid proactive / DTN operation based on an OLSRv2 extension
- Better MPR selection heuristics
- 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 – **Obvious**
- Babel Maintenance & Extensions – **Obvious**
- 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 – **A previous AODVv2 effort was dropped**
- Hybrid (pro-active / reactive) routing protocol – **For discussion, need Reactive first?**
- RFC 2501bis, Informational overview of MANET Routing Performance Evaluation – **For discussion**
- Other topics that WG participants would want to work on?

Update from Interim

Note:

- If you suggest or support an item, please indicate whether you would be able to contribute to that work – author or coauthor a draft.
- Items that have no indication of people to work on them will not be added to the charter.