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
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?
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?
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.