

25 July 2023

IETF 117 MANET WG

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IETF 117 San Francisco
hosted by

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

Note Really Well

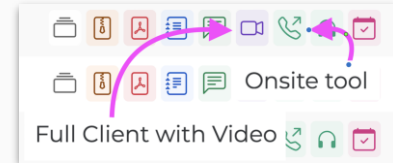
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In-person participants

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- Use Meetecho to join the mic queue
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Remote participants

- Make sure your audio and video are off unless you are chairing or presenting during a session
- Use of a headset is strongly recommended

Resources for IETF 117 San Francisco

- Agenda
<https://datatracker.ietf.org/meeting/agenda>
- Meetecho and other information:
<https://www.ietf.org/how/meetings/preparation>
- If you need technical assistance, see the Reporting Issues page:
<http://www.ietf.org/how/meetings/issues/>

Resources for this session

Everything (agenda, slides, meetecho, chat room, notepad and more) should be reachable through links from:

<https://datatracker.ietf.org/meeting/117/session/manet>

AGENDA

1. Chairs' Introduction (5 min)
 - Note Well, etc.
 - Agenda bashing
 - Notetaker(s)
 - WG status / Welcoming new chair
2. Document status - chairs (5 min)
3. Presentation on potential new charter work item:
Sloppy Topology Updates for ad-hoc Routing Protocols (STURP) - (Zhe Lou, 20 min including discussion, <https://datatracker.ietf.org/doc/draft-lou-manet-sturp/>)
4. Presentation on potential new charter work item:
BABEL for IEEE 802.11 (Wi-Fi) Mesh - (Donald Eastlake, 15 min)
5. Rechartering discussion - all (15 min)
6. AOB - (time permitting)

WG STATUS: MABEL?

- MANET needs to recharter in order to be able to take on new work
- The Babel WG will be closed down as soon as the last draft that the group is working on (draft-ietf-babel-rtt-extension) will be in the RFC Editor Queue.
- ‘Babel Maintenance & Extensions’ will then become a work item on the new MANET charter
- Other Babel-related work, such as ‘Babel for IEEE 802.11 Mesh Mode’ *may* also be on the new charter (to be discussed by the WG!)
- Despite a creative suggestion by Dave Täht, the rechartered WG will **not** be called Mabel 😊
- Discussion on new charter items will be started in this session and continued on the ML
 - Approach is to start from a long list and reduce this to a ‘manageable’ number of work items, based on WG participants interests

WG Document Status

- Credit-based flow control I-Ds
 - draft-ietf-manet-dlep-credit-flow-control
 - draft-ietf-manet-dlep-traffic-classification
 - draft-ietf-manet-dlep-da-credit-extension
 - draft-ietf-manet-dlep-ether-credit-extension
- These were expired, now revived (Thanks, Lou!)
- The first three are still under TSV ART early review, some smaller issues need to be resolved
- draft-ietf-manet-dlep-ether-credit-extension needs to be added to the pack
- Almost done with shepherd's write-up for draft-ietf-manet-dlep-credit-flow-control
 - Preview: <https://datatracker.ietf.org/doc/draft-ietf-manet-dlep-credit-flow-control/shepherdwriteup/>
 - Write-ups for the other I-Ds will be almost identical
- Next step: RtgDir review

Individual I-D Status

- PHY-related DLEP extensions
 - draft-rogge-manet-dlep-radio-band
 - draft-rogge-manet-dlep-channel-utilization
 - draft-rogge-manet-dlep-radio-quality
- These were expired, now revived (Thanks, Henning!)
- A WG Adoption Call was done for draft-rogge-manet-dlep-radio-band in March 2022, outcome inconclusive
- Chairs will initiate a new WG Adoption Call for each of these I-Ds
- New: draft-lou-manet-sturp
 - To be presented in this session

Rechartering 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. **Keep?**
- 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**

Rechartering 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?

Rechartering 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 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**
- Other topics that WG participants would want to work on?