

IETF 114 Babel / ROLL / MANET Joint session on multicast routing

29 July 2022

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IETF 114 Philadelphia
hosted by



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)



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- Use Meetecho to join the mic queue
- *Keep audio and video off if not using the onsite version*
- **Wear masks unless actively speaking at the microphone**



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 114 Philadelphia

- Agenda
<https://datatracker.ietf.org/meeting/agenda>
- Meetecho and other information:
<https://www.ietf.org/how/meetings/114/preparation>
- If you need technical assistance, see the Reporting Issues page:
<http://www.ietf.org/how/meetings/issues/>

Resources for this session

- Presentation slides

<https://datatracker.ietf.org/meeting/114/agenda/manet-drafts.tgz>

<https://datatracker.ietf.org/meeting/114/agenda/manet-drafts.pdf>

- Meetecho / On-site tool

<https://meetings.conf.meetecho.com/ietf114/?group=manet&short=&item=1>

<https://meetings.conf.meetecho.com/onsite114/?group=manet&short=&item=1>

- Notepad (Please volunteer)

<https://notes.ietf.org/notes-ietf-114-manet>

Agenda

1. Chairs' Introduction (5 min)
 - Note Well, etc.
 - Agenda bashing
2. Introduction to joint session(5 min)
 - Purpose – joint chairs
3. Multicast in MANETs
 - Ronald in 't Velt (15 min)
4. Let's talk about the IP multicast data plane
 - Henning Rogge (15 min)
5. Multicast in IEEE 802.11s
 - Donald Eastlake (15 min)
6. BIER for Babel
 - Zhang Zheng (15 min)
7. Multicast in LLNs - TBD (20 min)
8. Discussion - all (15 min)
 - Commonalities / Need for protocol action / Operating System aspects
9. Wrap-up of multicast session (5 min)
 - joint chairs
10. Exciting features of the Babel routing protocol
 - Juliusz Chroboczek (10 min)

Introduction to joint session

- Prompted by a conversation Donald Eastlake had with the Routing ADs at IETF-113,. The suggestion was made to have a joint BABEL / MANET / ROLL WG meeting on the topic of multicast. According to the ADs: “All three Working Groups, BABEL, MANET and ROLL, **have considered multicast but not made much progress in that direction.**”
- Presentations today should provide insight into challenges of (and potential solutions for) multicast in wireless mesh networks / MANETs / LLNs. They will hopefully also make clear to what extent the ADs assessment is true.

Discussion

- What are the commonalities / differences in the Babel / ROLL / MANET use cases and challenges?
- Are there existing solutions that would apply?
- What actions can be taken that are within scope of the IETF (Routing Area)?
- What actions could be taken elsewhere? (e.g., changes to OS kernels)
- ...