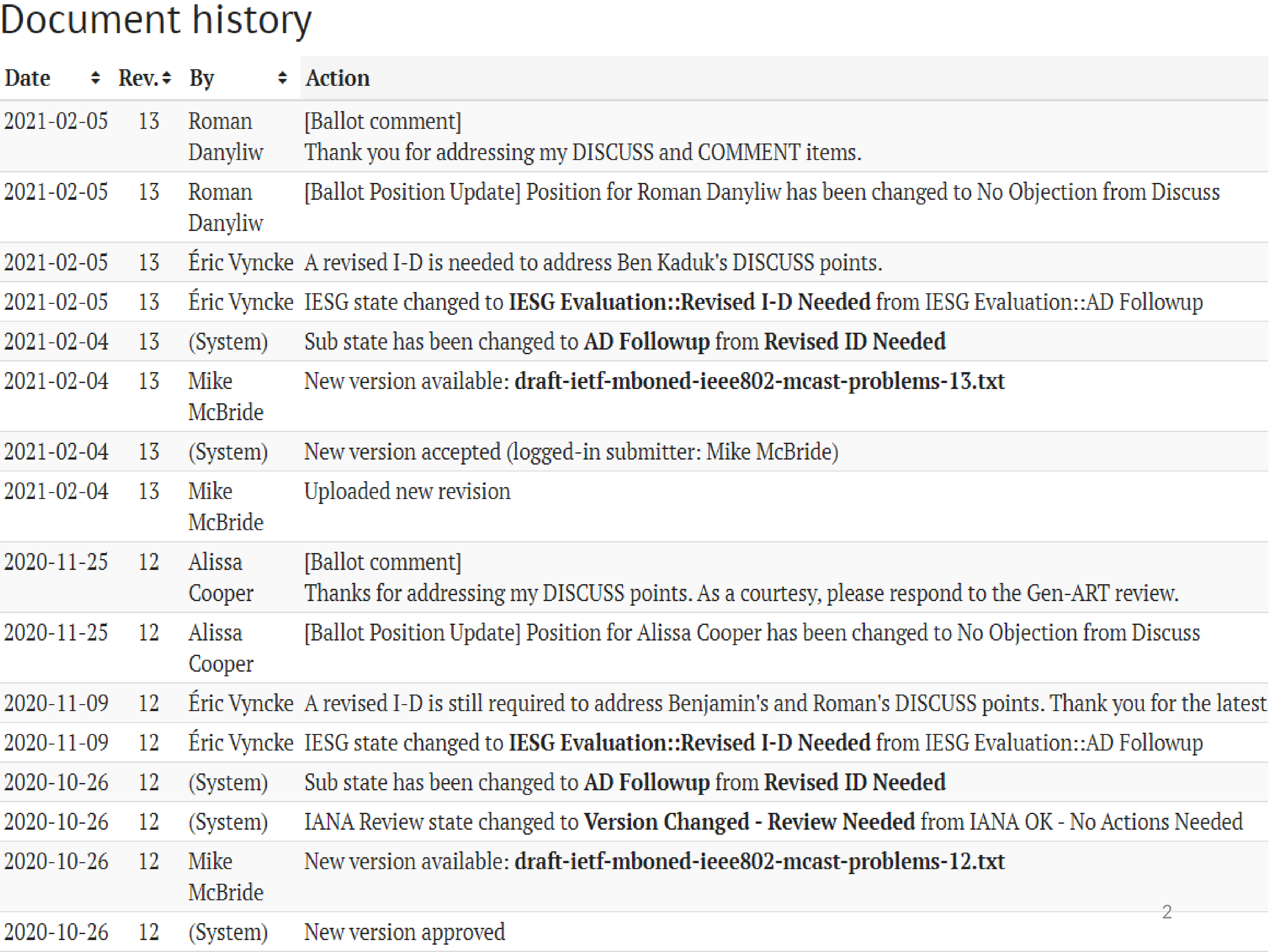
draft-ietf-mboned-ieee802-mcast-problems-13

IETF110

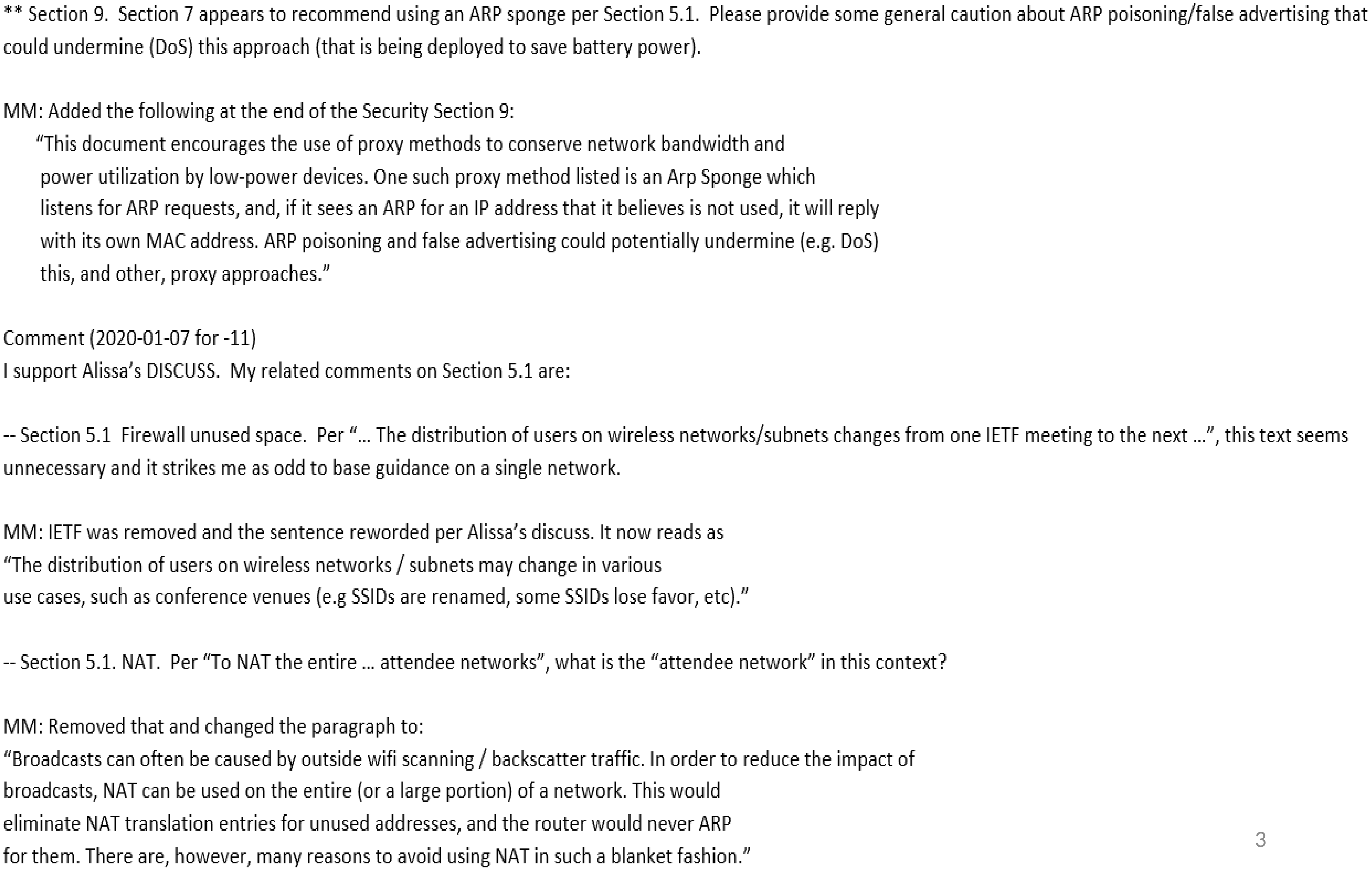
March 11, 2021



Document history

Date	Rev.	By	Action
2021-02-05	13	Roman Danyliw	[Ballot comment] Thank you for addressing my DISCUSS and COMMENT items.
2021-02-05	13	Roman Danyliw	[Ballot Position Update] Position for Roman Danyliw has been changed to No Objection from Discuss
2021-02-05	13	Éric Vyncke	A revised I-D is needed to address Ben Kaduk's DISCUSS points.
2021-02-05	13	Éric Vyncke	IESG state changed to **IESG Evaluation::Revised I-D Needed** from IESG Evaluation::AD Followup
2021-02-04	13	(System)	Sub state has been changed to **AD Followup** from **Revised ID Needed**
2021-02-04	13	Mike McBride	New version available: **draft-ietf-mboned-ieee802-mcast-problems-13.txt**
2021-02-04	13	(System)	New version accepted (logged-in submitter: Mike McBride)
2021-02-04	13	Mike McBride	Uploaded new revision
2020-11-25	12	Alissa Cooper	[Ballot comment] Thanks for addressing my DISCUSS points. As a courtesy, please respond to the Gen-ART review.
2020-11-25	12	Alissa Cooper	[Ballot Position Update] Position for Alissa Cooper has been changed to No Objection from Discuss
2020-11-09	12	Éric Vyncke	A revised I-D is still required to address Benjamin's and Roman's DISCUSS points. Thank you for the latest
2020-11-09	12	Éric Vyncke	IESG state changed to **IESG Evaluation::Revised I-D Needed** from IESG Evaluation::AD Followup
2020-10-26	12	(System)	Sub state has been changed to **AD Followup** from **Revised ID Needed**
2020-10-26	12	(System)	IANA Review state changed to **Version Changed - Review Needed** from IANA OK - No Actions Needed
2020-10-26	12	Mike McBride	New version available: **draft-ietf-mboned-ieee802-mcast-problems-12.txt**
2020-10-26	12	(System)	New version approved

Examples of editing



** Section 9. Section 7 appears to recommend using an ARP sponge per Section 5.1. Please provide some general caution about ARP poisoning/false advertising that could undermine (DoS) this approach (that is being deployed to save battery power).

MM: Added the following at the end of the Security Section 9:

> "This document encourages the use of proxy methods to conserve network bandwidth and
> power utilization by low-power devices. One such proxy method listed is an Arp Sponge which
> listens for ARP requests, and, if it sees an ARP for an IP address that it believes is not used, it will reply
> with its own MAC address. ARP poisoning and false advertising could potentially undermine (e.g. DoS)
> this, and other, proxy approaches."

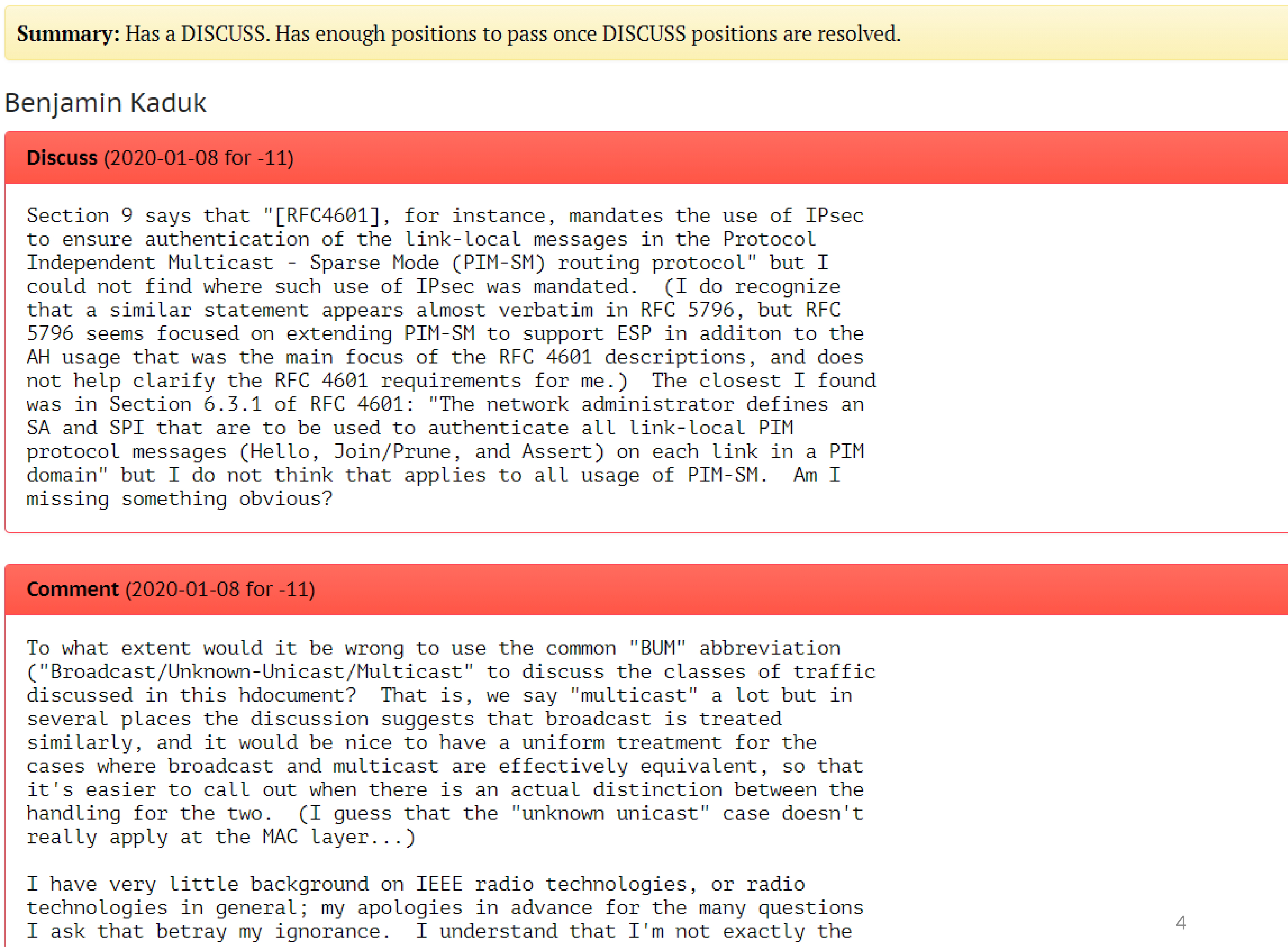
Comment (2020-01-07 for -11)
I support Alissa's DISCUSS. My related comments on Section 5.1 are:

-- Section 5.1 Firewall unused space. Per "… The distribution of users on wireless networks/subnets changes from one IETF meeting to the next …", this text seems unnecessary and it strikes me as odd to base guidance on a single network.

MM: IETF was removed and the sentence reworded per Alissa's discuss. It now reads as
"The distribution of users on wireless networks / subnets may change in various
use cases, such as conference venues (e.g SSIDs are renamed, some SSIDs lose favor, etc)."

-- Section 5.1. NAT. Per "To NAT the entire … attendee networks", what is the "attendee network" in this context?

MM: Removed that and changed the paragraph to:
"Broadcasts can often be caused by outside wifi scanning / backscatter traffic. In order to reduce the impact of
broadcasts, NAT can be used on the entire (or a large portion) of a network. This would
eliminate NAT translation entries for unused addresses, and the router would never ARP
for them. There are, however, many reasons to avoid using NAT in such a blanket fashion."



Summary: Has a DISCUSS. Has enough positions to pass once DISCUSS positions are resolved.

Benjamin Kaduk

Discuss (2020-01-08 for -11)

Section 9 says that "[RFC4601], for instance, mandates the use of IPsec to ensure authentication of the link-local messages in the Protocol Independent Multicast - Sparse Mode (PIM-SM) routing protocol" but I could not find where such use of IPsec was mandated. (I do recognize that a similar statement appears almost verbatim in RFC 5796, but RFC 5796 seems focused on extending PIM-SM to support ESP in additon to the AH usage that was the main focus of the RFC 4601 descriptions, and does not help clarify the RFC 4601 requirements for me.) The closest I found was in Section 6.3.1 of RFC 4601: "The network administrator defines an SA and SPI that are to be used to authenticate all link-local PIM protocol messages (Hello, Join/Prune, and Assert) on each link in a PIM domain" but I do not think that applies to all usage of PIM-SM. Am I missing something obvious?

Comment (2020-01-08 for -11)

To what extent would it be wrong to use the common "BUM" abbreviation ("Broadcast/Unknown-Unicast/Multicast" to discuss the classes of traffic discussed in this hdocument? That is, we say "multicast" a lot but in several places the discussion suggests that broadcast is treated similarly, and it would be nice to have a uniform treatment for the cases where broadcast and multicast are effectively equivalent, so that it's easier to call out when there is an actual distinction between the handling for the two. (I guess that the "unknown unicast" case doesn't really apply at the MAC layer...)

I have very little background on IEEE radio technologies, or radio technologies in general; my apologies in advance for the many questions I ask that betray my ignorance. I understand that I'm not exactly the

Next Step

- Resolve Benjamin’s DISCUSS.
- There are many any other comments but we should be good to publish after this last DISCUSS is cleared.