

IETF 112 DTN Agenda

<https://datatracker.ietf.org/meeting/112/session/dtn>

This session is being recorded

- Agenda
<https://datatracker.ietf.org/meeting/112/materials/agenda-112-dtn>
- Participant guide
<https://www.ietf.org/how/meetings/technology/meetecho-guide-participant/>
- If you need technical assistance, see the Reporting Issues page:
<http://www.ietf.org/how/meetings/issues/>

Note Well

This is a reminder of IETF policies in effect on various topics such as patents or code of conduct. It is only meant to point you in the right direction. Exceptions may apply. The IETF's patent policy and the definition of an IETF "contribution" and "participation" are set forth in BCP 79; please read it carefully.

As a reminder:

- By participating in the IETF, you agree to follow IETF processes and policies.
- If you are aware that any IETF contribution is covered by patents or patent applications that are owned or controlled by you or your sponsor, you must disclose that fact, or not participate in the discussion.
- As a participant in or attendee to any IETF activity you acknowledge that written, audio, video, and photographic records of meetings may be made public.
- Personal information that you provide to IETF will be handled in accordance with the IETF Privacy Statement.
- As a participant or attendee, you agree to work respectfully with other participants; please contact the ombudsteam (<https://www.ietf.org/contact/ombudsteam/>) if you have questions or concerns about this.

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)

Agenda

- Admin, Chairs, 10 mins
- Charter and Milestone Overview and Discussion, Chairs, 20 mins

- BPv7 Types Registry Extension, Brian Sipos, 10 mins
- BPv7 Wireshark Dissector Review and Demonstration, Brian Sipos, 10 mins
- BPv7 COSE Security Context Status, Brian Sipos, 10 mins
- DTN Scalability Using Regions, Scott Burleigh, 25 mins
- Asynchronous Management Architecture updates, Emery Annis, 15 mins
- Challenged Network Management Tooling, Sarah Helble, 10 mins

- Any other business / Open Mic, 10 mins

Administrivia

- The Meetecho system can struggle
Please be patient!
- We need minutes taken
CodiMD Integrated into Meetecho, please help out.
- Mailing List
dtm@ietf.org, dtm-chairs@ietf.org

Document status

- [draft-ietf-dtn-bpbis-31](#) RFC_EDITOR
- [draft-ietf-dtn-bpsec-27](#) RFC_EDITOR
- [draft-ietf-dtn-bpsec-default-sc-11](#) RFC_EDITOR
- [draft-ietf-dtn-tcpclv4-28](#) RFC_EDITOR

The RFC Editor expects that all these documents will reach AUTH-48 state in 2 weeks. The authors have been warned and are ready to respond promptly to the RFC Editor.

With luck, we should have 4 RFCs before end of year!

Working Group Charter

<https://datatracker.ietf.org/doc/charter-ietf-dtn/>

After much back and forth with the IESG, the proposed updated working group charter has passed all review.

There were 2 BLOCKS:

- Network Management (OPS)
- Routing (RTG)

Both of these BLOCKS have now been resolved to the satisfaction of the relevant reviewers, and the final charter proposal will be (hopefully) approved by the IESG on 2021-12-02.

Working Group Charter

Both of these BLOCKs are examples of a common concern:

- Delay and Disruption Tolerant Networking is a subject that touches many topics beyond the normal scope of a Transport Area working group. When the working group begins to address such topics, there must be co-ordination with other relevant IETF Areas.

To address this concern, generic text has been added at the end of the charter:

“The Working Group will coordinate with other IETF Working Groups, especially in the Security, Routing, Operation and Management Areas, to ensure the quality of peer review, the avoidance of duplication of effort, and alignment with specifications produced in other Working Groups.”

Working Group Charter

Operation and Management

The OPS Area ADs have a specific concern with the Asynchronous Management Architecture. They feel that recent work in the NETMOD working group addressed some instances of asynchronous operation. The DTNWG AMA document is being revisited to focus more on the (still unique) needs of challenged networks.

To that end, the chairs and authors have decided to rework the document to address the following perceived issues:

- The AMA title will be changed to “Delay Tolerant Network Management Architecture” (or similar) to highlight its purpose.
- The document will update the architecture to include analysis of existing asynchronous work and more unique expression of needs in challenged environments.
- We will use this document act as a gap analysis of existing IETF management protocols and the needs of DTNs.

The revised document will go through another round of technical review/last call to include the NETMOD community, and including their feedback and advice, further documents will then be produced addressing specific areas where there is a lack of capability in current standard protocols.

Working Group Charter

Operation and Management (2)

In particular, the current AMA/ADM documents describes 3 perceived needs:

- Transport of management information between devices without a complete end-to-end path
- Efficient encoding of management data, and a common modelling language to describe such data
- The need for deterministic autonomous operation

It should be noted that none of this stops the work on AMA/ADM. The documents will be better organized to fit into existing domains/descriptions and some names may change to better focus the work into challenged networking areas.

By leveraging the experience of the experts in the OPS Area, the IETF firmly believes that the final result will be better than any WG tackling the topic in isolation.

Working Group Charter

Routing

As stated at IETF-111, the Working Group will not work on topics related to Routing in DTNs in the charter-cycle. The charter states this explicitly to avoid confusion.

- We have to be pragmatic and set ourselves achievable goals. Without a clear framework for naming, addressing, forwarding and neighbour discovery, defining standard routing protocols is ill-advised.
- The Routing ADs would like to see discussion of Routing occur in the future in close co-ordination with the Routing Area.
 - There may be an opportunity for a Space-based Routing Working Group in the future, addressing DTN Routing and LEO satellite swarm routing. Time to start thinking of an exciting acronym!
- The MANET working group is extremely interested in the AMA approach to management, and the Routing ADs want the MANET working group to liaise with this working group on the subject.
 - Ed Birrane is presenting AMA to MANET at this IETF (Session III today)
 - Many MANET participants are also DTN participants, which helps.

Working Group Charter

Milestones

The charter lists some proposed milestones:

- Naming and Addressing Architecture document
- Neighbor/Peer Discovery protocol specification
- Delay-Tolerant Management Architecture and Protocols
- Key Management protocol specification
- Bundle progress signalling extension to Bundle Protocol specification
- Bundle-in-Bundle Encapsulation extension to Bundle Protocol specification
- Quality of Service/Flow indication extension to Bundle Protocol specification

The milestones must have dates associated with them.

If you are willing to work on any these topics, please let the chairs know an estimate of when you believe any documents on these subjects might be ready for WG adoption.

Working Group Charter

Comments and Questions?