

IETF 113 Computing-Aware Networking (CAN) BoF

22 March 2022

Chairs: Jeffrey Zhang, Linda Dunbar

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IETF 113 Vienna
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:

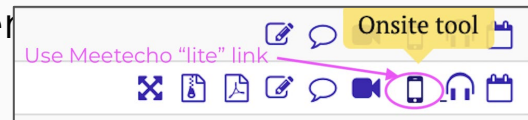
- [BCP 9](#) (Internet Standards Process)
- [BCP 25](#) (Working Group processes)
- [BCP 25](#) (Anti-Harassment Procedures)
- [BCP 54](#) (Code of Conduct)
- [BCP 78](#) (Copyright)
- [BCP 79](#) (Patents, Participation)
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IETF 113 Meeting Tips

In-person participants

- Make sure to sign into the session using the Meetecho (usually the “onsite tool” client) from the Datatracker agenda
- Use Meetecho to join the mic queue
- *Keep audio and video off if not using the onsite version*



Remote participants

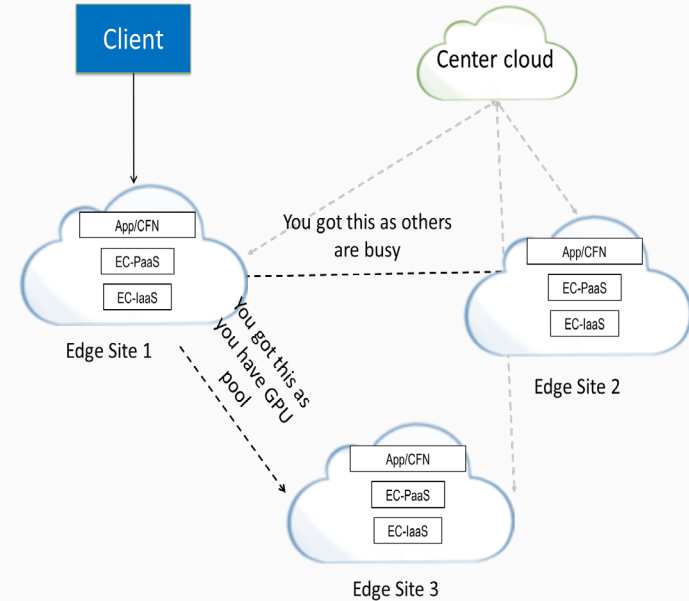
- Make sure your audio and video are off unless you are chairing or presenting during a session
- Use of a headset is strongly recommended

Resources for IETF 113 Vienna

- Agenda
<https://datatracker.ietf.org/meeting/agenda>
- Meetecho and other information:
<https://www.ietf.org/how/meetings/113/preparation>
- If you need technical assistance, see the Reporting Issues page:
<http://www.ietf.org/how/meetings/issues/>

Computing-Aware Networking (CAN)

- Aims at computing and network resource optimization by steering traffic to appropriate computing resources considering not only routing metric but also computing resource metric and service affiliation.
- Mailing List: dyncast@ietf.org
 - <https://www.ietf.org/mailman/listinfo/Dyncast>
- Etherpad for minutes taking:
 - <https://notes.ietf.org/notes-ietf-113-can>
 - Many thanks to David Guzman and Zheng Hao Mian for taking the notes. More are appreciated.



Purpose of the BOF (Non WG-Forming)

Increase awareness and increase participation in Computing-Aware Networking so that efforts can be organized coherently.

Research  “early engineering”.

- A few words from AD John Scudder
- Overview/update of the state of the industry/SDOs
- Use cases and requirements
- Potential solutions

Questions to have in minds

You don't have to answer these questions, but please think about them for the discussion at the end of the meeting:

- Are the use cases important?
- Are there existing and sufficient solutions?
- Do you think the proposed architecture would be harmful in any way?
- Would it be IETF work?
 - In Routing area (and which WGs) or somewhere else?
 - Is there energy to continue the work?

Agenda

- Administrivia- (chairs,5minutes) 5/120
 - Problem statement, use cases and requirements
 - MEC/CNC Update (Luis, 15 minutes) 20/120
 - Specific Use Cases (Peng Liu, 20 minutes) 40/120
 - Gap Analysis and Requirement (Peng Liu, 20 minutes) 60/120
 - Potential solutions
 - Solution using existing techniques: (Shraddha Hegde, 15 minutes) 75/120
 - Load Balancer
 - Solution with protocol extension: (Cheng Li, 15 minutes) 90/120
 - Architecture of Dynamic Anycast
 - Open discussion -(all, 15 minutes) 105/120
 - Return to the Questions - (Chairs, AD, 15mins) 120/120
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- Questions are for clarification only
- This is where the debate is held

Summary and Next Steps

- Chairs
 - What we heard
- AD
 - What he heard
 - What are the next steps