

60th NMRG Meeting

IETF 110, Online

Chairs: Laurent Ciavaglia, Jérôme François
Secretaries: Jéferson Campos Nobre, Pedro Martinez-Julia



Note Well – Intellectual Property

This is a reminder of IETF and IRTF policies in effect on various topics such as patents or code of conduct. It is only meant to point you in the right direction.

- **The IRTF follows the IETF Intellectual Property Rights (IPR) disclosure rules**
- By participating in the IRTF, you agree to follow IRTF processes and policies:
 - If you are aware that any IRTF 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
 - The IRTF expects that you file such IPR disclosures in a timely manner – in a period measured in days or weeks, not months
 - The IRTF prefers that the most liberal licensing terms possible are made available for IRTF Stream documents – see [RFC 5743](#)
 - Definitive information is in [RFC 5378](#) (Copyright) and [RFC 8179](#) (Patents, Participation), substituting IRTF for IETF, and at <https://irtf.org/policies/ipr>

Note Well – Privacy & Code of Conduct

- As a participant in, or attendee to, any IRTF activity you acknowledge that written, audio, video, and photographic records of meetings may be made public
- Personal information that you provide to IRTF will be handled in accordance with the Privacy Policy at <https://www.ietf.org/privacy-policy/>
- 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
- See [RFC 7154](#) (Code of Conduct) and [RFC 7776](#) (Anti-Harassment Procedures), which also apply to IRTF

Goals of the IRTF

The IRTF conducts research; it is not a standards development organization

The Internet Research Task Force (IRTF) focuses on longer term research issues related to the Internet while the parallel organization, the IETF, focuses on shorter term issues of engineering and standards making.

While the IRTF can publish informational or experimental documents in the RFC series, its primary goal is to promote development of research collaboration and teamwork in exploring research issues related to Internet protocols, applications, architecture, and technology.

See “An IRTF Primer for IETF Participants” – [RFC 7418](#)

Online meeting etiquette

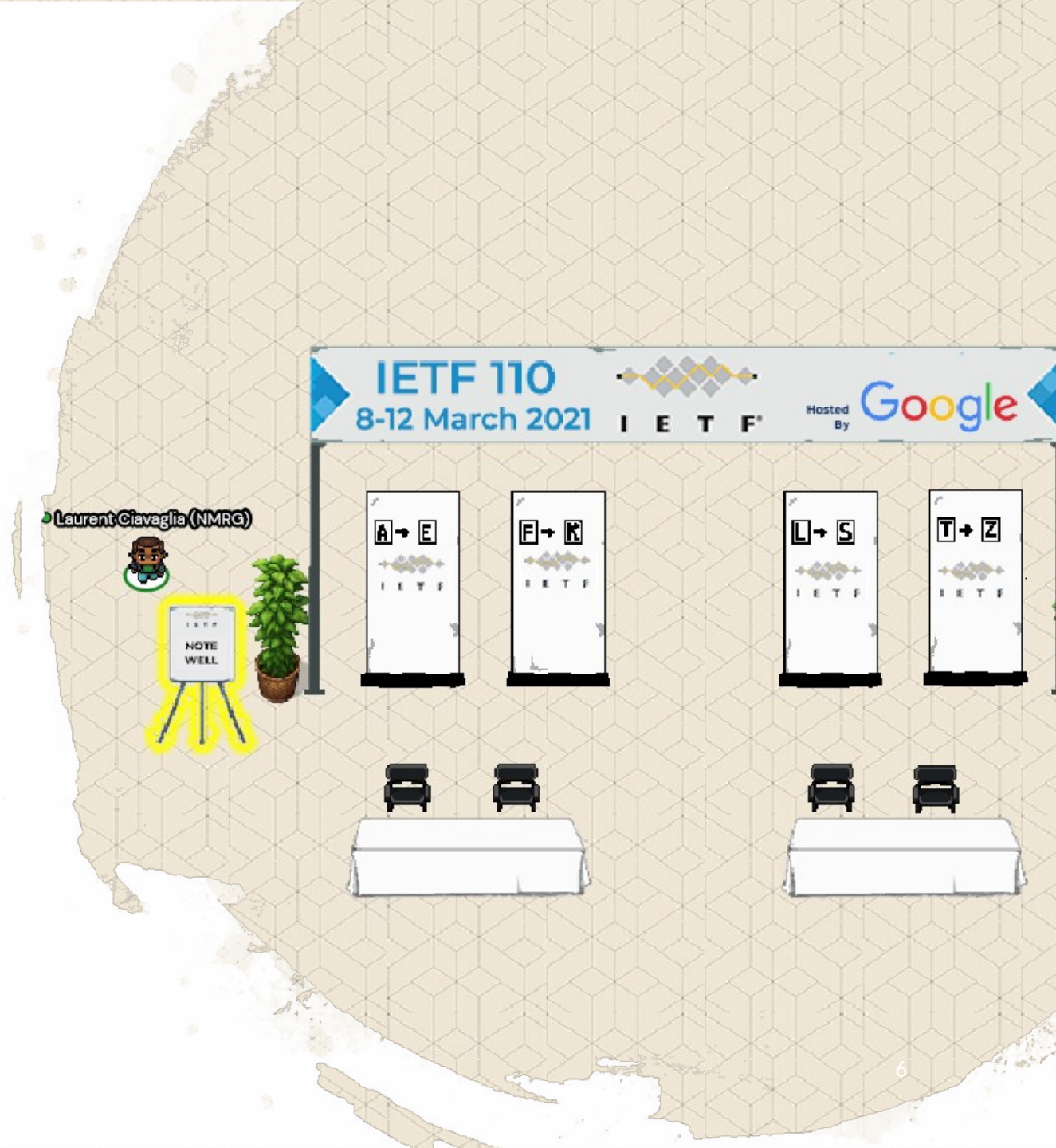
- **The session is being recorded.**
- The list of participants (“Blue sheet”) is automatically recorded based on IETF Datatracker login.
- Please keep your audio muted and video off when not presenting/speaking.
- When speaking, please start by stating your name and any affiliation
- **Useful links:**
 - Materials: <https://datatracker.ietf.org/meeting/110/session/nmrg>
 - Meetecho: <http://www.meetecho.com/ietf110/nmrg/>
 - Meeting notes: <https://codimd.ietf.org/notes-ietf-110-nmrg>
 - Audio recording: <https://www.ietf.org/audio/ietf110/>
 - Video recording: <https://www.youtube.com/user/ietf/playlists>

Online meeting experience

- **Gather**

- Platform for social interactions of an IETF meeting that are hard to do online
- <https://ietf.gather.town/app/L4fNNdm1NJa1sE2v/ietf>
- Guidelines at:
https://docs.google.com/document/d/172eqRpW8dod_Hpts1kGleel8JrGF4vCzcahTTpn3c0s/edit#
- MeetEcho integration:
 - Meetecho should ask if you want to join the Gather space when you exit the meeting.
 - You can also join the MeetEcho session directly from the appropriate room in the Gather space.

So please continue discussions and interactions on Gather after our session !



Future meetings

- April 2021, Interim , *online*
- (tentative) May 2021, Interim, co-located with IEEE IM conference, *online*
- (tentative) June 2021, Interim , *online*
- July 2021, IETF 111, San Francisco or online ? *decision on April 16th, 2021*

Until further notice, the default mode of operation will increasingly rely on:

- (bi-)monthly Online meetings
- Mailing list
- Collaborative platforms (e.g. Github, Google Docs, etc.)

Do not hesitate to share your questions, ideas or needs with the groups or chairs !

Agenda

16:00 Introduction, RG Chairs, 5 min.

Status on active Internet Drafts (35 min.)

16:05 Concepts of Digital Twin Network, Cheng Zhou, 10 min. + Q&A

<https://datatracker.ietf.org/doc/draft-zhou-nmrg-digitaltwin-network-concepts/>

16:20 Intent Classification (in RG last call), Olga Havel 5 min. + Q&A

<https://datatracker.ietf.org/doc/draft-irtf-nmrg-ibn-intent-classification/>

16:30 Network Measurement Intent, Danyang Chen 5 min. + Q&A

<https://datatracker.ietf.org/doc/draft-yang-nmrg-network-measurement-intent/>

Technical talks on Intent-based Networking (50 min.)

16:40 Automated Performance Evaluation of Intent-based Virtual Network Systems, Kazuki Tanabe, 15 min. + Q&A

<http://dl.ifip.org/db/conf/cnsm/cnsm2020/1570659331.pdf>

16:55 SDN Heading North: Towards a Declarative Intent-based Northbound Interface, Shiyam Alalmaei, 10 min. + Q&A

<http://dl.ifip.org/db/conf/cnsm/cnsm2020/1570662931.pdf>

17:10 An Intent Demonstration in an Adaptive Policy Environment, Joseph McNamara, 15 min. + Q&A

<http://dl.ifip.org/db/conf/cnsm/cnsm2020/1570679866.pdf>

Technical talks on AI for Network Management and Operation (30 min.)

Focus on technical presentations in relation to challenges presented in the AI research challenges document

https://docs.google.com/document/d/1dQOzZustl2mkYr_omtigu3FqUvoqLgaCp7nbRj4ZJyw/edit

17:30 Self-Driving Network and Service Coordination Using Deep Reinforcement Learning, Stefan Schneider, 15 min. + Q&A

<http://dl.ifip.org/db/conf/cnsm/cnsm2020/1570659307.pdf>

17:45 Problems and Strategies implementing in-network AI models, Matthews Jose

18:00 End