NMRG Virtual Meeting
26 January 2021

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

IRTF

Goals of the IRTF

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

The Internet <u>Research</u> Task Force (IRTF) focuses on longer term research issues related to the Internet

The Internet <u>Engineering</u> Task Force (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](RFC 7418)

IRTF follows IETF policies

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)

Virtual Meeting Etiquette

Please remember that **sessions are being recorded**

Please also:

- **Keep yourself muted** unless you are speaking
- If you want to speak/comment,
    - In the Webex chat, type:
        - 'RH' (Raise Hand)
        - 'LH' (Lower Hand)
    - Respect the line i.e. speak when it's your turn; the Chairs will manage the queue
    - State your name
    - Stay to the point, be concise and precise

Useful links

- Agenda: https://datatracker.ietf.org/doc/agenda-interim-2021-nmrg-01-nmrg-01/

- Materials: https://datatracker.ietf.org/meeting/interim-2021-nmrg-01/session/nmrg

- Webex: https://ietf.webex.com/ietf/j.php?MTID=m82628046e48984c53ab7998c1788ad9f

- Notes: https://codimd.ietf.org/nmrg-online-20210126#

- Recording: WebEx recording will be available after the meeting on the YouTube IETF Channel

  https://www.youtube.com/channel/UC8dtK9njBLdFnBahHFp0eZQ

- Attendance: please add your name at the bottom on the Notes page (https://codimd.ietf.org/nmrg-online-20210126#)

Agenda

1. **Meeting introduction, Chairs**
18:00 - 05 min
      1.1 New participant: Nikhil Handigol, Forward Networks

2. **Status on IBN Concepts and Definitions, Alex Clemm, draft-irtf-nmrg-ibn-concepts-definitions**
18:05 - 05 min

3. **Status on Intent Classification, Olga Havel, draft-irtf-nmrg-ibn-intent-classification**
18:10 - 10 min -

4. **IBN Use Cases "work session"**
18:20 - 60 min
      4.1 Short presentations on use cases in scope of NMRG
      4.2 What do we want to achieve: common objectives (inputs to reference model, lessons learned) and end result
      4.3 What do we want/need to document: common description, requirements, functional blocks, validation aspects...

5. **IBN activities outside of NMRG (ZSM, TMF…), Laurent Ciavaglia**
19:20 - 15 min

6. **(TBC) Status on Research Challenges in AI for NM, Jérôme**
19:35 - 10 min

7. **Any other business?**
19:45 - 15 min
20:00 - end of meeting

Future meetings

Online interim in February?

March 2021, IETF 110, *Online*

- A 2hr session has been requested

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

- Monthly Virtual 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 item #2
Status on IBN Concepts and Definitions

Agenda item #3
Status on Intent Classification

Agenda item #4
IBN Use Cases

IBN Use Cases

- Work plan item #5:
  " Define appropriate validation scenarios and use cases describing concrete examples of intent expressions and functions.
  Goal: assess the quality and completeness of specifications and evaluate intent-based systems functionalities in experimental settings."

- Considerations
  - Use cases of interest: e.g. on 5G/Network Slicing, Enterprise/DC networking and operations, Smart-x (-home, -city...)
  - Definition of guidelines, common structure, expectations, use case template
  - Connection with Intent Classification

4.2 What do we want to achieve: common objectives (inputs to reference model, lessons learned) and end result
4.3 What do we want/need to document: common description, requirements, functional blocks, validation aspects...

https://github.com/jcnobre/draft-nobre-nmrg-ibn-use-cases

Positive feedback already received from: Amina, Luis, Jeff, Jéferson, Laurent, Alex...
Next steps...: work sessions, use case template...

Agenda item #5
IBN activities outside of NMRG

ETSI ZSM

- New Group Report (GR) starting in ETSI ZSM ISG on Intent-based management, ZSM011.

  Scope and latest draft on available in Open area: https://docbox.etsi.org/ISG/ZSM/Open

TMF AN project

- Ongoing activity on intent modeling in TMF Autonomous Networks Project.

  AN technical architecture report available (for registered users)

Position of NMRG IBN activities?

Agenda item #6
Status on Research Challenges in AI for NM

Agenda item #7
Any other business?