# 48th NMRG Meeting - IETF 102
# Session 1

Laurent Ciavaglia, Lisandro Z. Granville

# IRTF follows IETF policy ("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)

# Volunteers ?!

Minutes taker(s)

Meetecho / Jabber scribe

# NMRG @ IETF 102 week

**Session 1** - "Regular" NMRG meeting (this current session)
covering ongoing/future research items and RG status

**Session 2** - IRTF Special Meeting on AI/ML in Networking (18:10, same room)
discussion meeting on relationships between network and AI/ML

**Interim meeting** - Workshop on Intent Based Networking
Friday, July 20th at ETS Montreal (details sent on the mailing list)

# Agenda

**1. Introduction**

**2. Topic: Telemetry & Co**
- 2a. Exploiting External Event Detectors
- 2b. Toward a Network Telemetry Framework

**3. Topic: Management aspects of network slicing**
- 3a. Management slicing problems and gap analysis
- 3b. (remote) Network Slice use cases

**4. Topic: Novel approaches to network management**
- 4a. Intelligent Network Management using Reinforcement Learning
- 4b. Roadmap to a Networkless World
- 4c. (remote) Autonomics 3.0
- 4d. Distinguishing Intent, Policy, and Service Models

# 2018 meetings plan

- *NOMS 2018, Taiwan, April (interim)*
- IETF 102, Montreal, July
- NMRG49, Montreal, July (interim)
- IETF 103, Bangkok, November

Ad-hoc interim or topical meetings with other groups/events.

# Document Status

**RFC 8316** Autonomic Networking Use Case for Distributed Detection of SLA Violations (Feb 2018)

**Congratulations to the authors!**

 4 active (individual) documents

# Research agenda

Organized around "themes"

- Intent based Network Management
- AI techniques for Network Management
- Autonomics 3.0 / Self-Driving Networks / Zero-touch Networking

Other topics of interest and volunteers to progress the work?

Derive research items, work plan and milestones

Published in IEEE Communications Standards Series, March 2018

https://ieeexplore.ieee.org/stamp/stamp.jsp?arnumber=8334913 (page 15)

# Future of NMRG

Lisandro Granville stepping down after 7 years

→ search for a new co-chair

→ good time to "re-think" the NMRG (started in March 1999)

- Evolutions of network management and managed environments
- New ambitions: Hot Topics, Managing/operating at scale and at speed…

Propose and consult with the RG for new name, scope, charter…