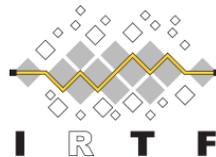


# 45<sup>th</sup> NMRG Meeting - IETF 100

## Session 1

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# Useful links

## Agenda

<https://datatracker.ietf.org/doc/agenda-98-nmrg>

## Materials

<https://datatracker.ietf.org/meeting/100/session/nmrg>

## Remote participation (Meetecho)

<http://www.meetecho.com/ietf100/nmrg>

# Volunteers ?!

Minutes taker(s)

Meetecho / Jabber scribe

# Agenda

Session 1 - Monday, November 13th, 17:40 - 18:40

## 1.a) Intent Based Network Management (IBNM)

- Distinguishing Intent, Policy, and Service Models (10 min.), presenter: Alexander Clemm

<https://datatracker.ietf.org/doc/draft-clemm-nmrg-dist-intent>

- Concepts of Network Intent (10 min.), presenter: Mouli Chandramouli

<https://datatracker.ietf.org/doc/draft-moulchan-nmrg-network-intent-concepts>

- Discussion and next steps (15 min.)

## 1.b) NMRG in 2017, 2018 and beyond (15 min.)

- 2017 RG meetings and progress of work
- 2018 RG meetings plan
- Evolution of NMRG

# Intent Based Network Management (IBNM)

Presentations and Discussion

# **NMRG in 2017, 2018 and beyond**

# 2017 RG meetings and progress of work

## 4 meetings:

- **IETF98**, Chicago, March (66 participants)  
Topic: Autonomic Networks 2.0
- **IM2016**, Lisbon, May (10 participants\*)  
Topic: New research items
- **IETF99**, Prague, July (34 and 85 participants)  
Topics: General meeting, and Workshop on Measurement-Based Network Management
- **IETF100**, Singapore, November  
Topic: Intent Based Network Management, and Use of artificial intelligence (AI) for network management

# 2017 RG meetings and progress of work

## RG document:

- Autonomic Networking Use Case for Distributed Detection of SLA Violations

<https://datatracker.ietf.org/doc/draft-irtf-nmrg-autonomic-sla-violation-detection>

→ Just passed IRSG poll. Next step: IESG review.

4 active (individual) documents

1 document not published after IESG conflict review

# 2018 meetings plan

## Tentative list to be discussed

- IETF 101, London, March
- NOMS 2018, Taiwan, April
- IETF 102, Montreal, July
- IETF 103, TBA, November

Interim and topical meetings with other groups/events. Open for suggestions.

# Evolution of NMRG

Research agenda organized around “themes”

- IBNM, AI techniques, Autonomics 2.0...

Other topics of interest and volunteers to progress the work?

- Derive research items, work plan and milestones

Do we need a new/revised charter?

# NMRG current charter

The Network Management Research Group (NMRG) provides a forum for researchers to explore new technologies for the management of the Internet. In particular, the NMRG will work on solutions for problems that are not yet considered well understood enough for engineering work within the IETF.

The initial focus of the NMRG will be on higher-layer management services that interface with the current Internet management framework. This includes communication services between management systems, which may belong to different management domains, as well as customer-oriented management services. The NMRG is expected to identify and document requirements, to survey possible approaches, to provide specifications for proposed solutions, and to prove concepts with prototype implementations that can be tested in large-scale real-world environments.

# NMRG current charter (cont.)

The IETF Operations and Management Area Directors are members of the NMRG mailing list and invited to NMRG meetings in order to ensure free flow of information in both directions, and to avoid duplication of work with the various IETF working groups.

The group will report its progress through a publicly accessible web site and presentations at IETF meetings. Specifications developed by the NMRG will be submitted for publication as Experimental or Informational RFCs.

# NMRG current charter (cont.)

## **Membership**

Membership is open to any interested parties who intend to remain current with the published documents and mailing list issues.

## **Meetings**

Regular working meetings are held about three times per year at locations convenient to the majority of the participants. Working meetings typically take 1-2 days and are typically co-located with either IETF meetings or conferences related to network management.