An Update of Operators Requirements on Network Management Protocols and Modelling

draft-boucadair-nmop-rfc3535-20years-later

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NMOP Work Item

The current topics of focus for the working group are:
- NETCONF/YANG Push integration with Apache Kafka & time series databases
- Anomaly detection and incident management
- Issues related to deployment/usage of YANG topology modules (e.g., to model a Digital Map)
- Consider/plan an approach for updating RFC 3535-bis (**collecting updated operator requirements for IETF network management solutions**)

Excerpt from the NMOP Charter

Some History

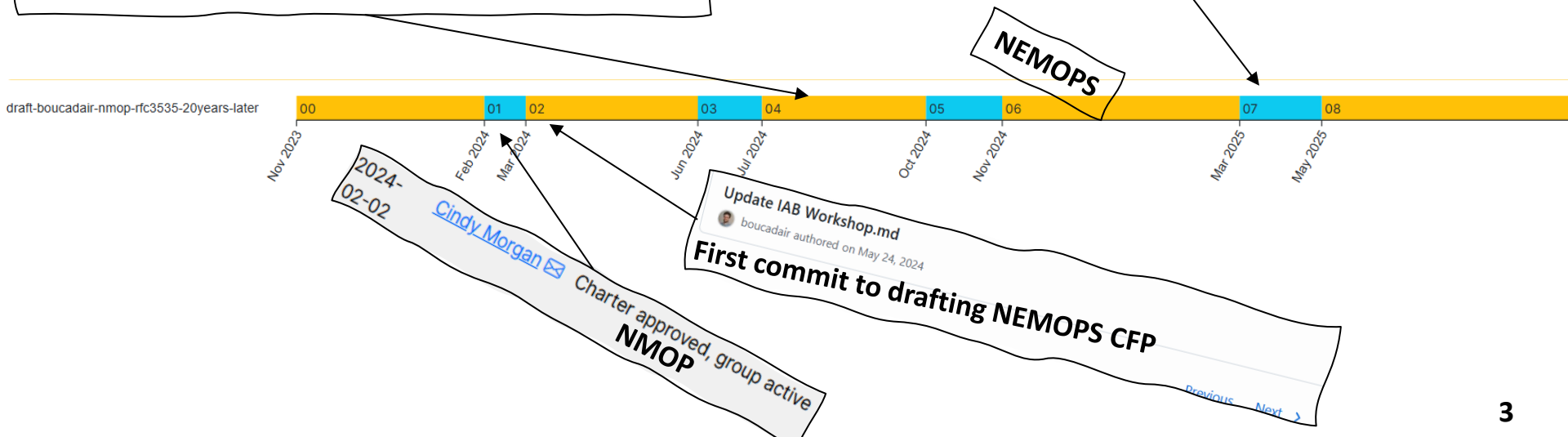# This **SHOULD NOT** Be ...

- a remake of NEMOPS Workshop

- a mirror of items that are already covered by advanced specifications

- a collection of random items without clear justification

What's in Then?

- A consolidated list of requirements from Operators together with an agreed *prioritization* of that list (strong, nice-to-have)
  - All inputs can be found at [rfc3535-20years-later/Prez/NEMOPS/nemops-session2-summary.md at main · boucadair/rfc3535-20years-later](#)

Requirements Level

Feel free to complete a column with your own assessment + update OP# with the operator name.

NEW Ops Requirement Label	Orange	Telefonica	Swisscom	Equinix	Deutsche Telekom	China Telecom	nbnco	Overall

- A collaborative effort that involves all interested parties to build *a very few set of actionable items* that will be the focus of immediate work in the IETF

Candidate Direction of Work

- *Rationalize device models* space and avoid redundant efforts
  - Clear guidance for the development of device models in the IETF

- More *agile process* for developing YANG modules

- *More Profiling*
  - E.g., A profile with a set of recommendations about core/key NETCONF/RESTCONF features with the appropriate justification will help the emergence of more implementations that meet the operators' needs
  - YANG profiles

- *Reassess the value of some IETF proposals* vs. competing/emerging solutions would be useful (e.g., gRPC vs. YANG-Push)

Next Steps

- Udpate the new operators requirements list
- Update

5.4. Collaborative Prioritization

TBC to reflect the priorities set by the WG.

((Including Rob's Inputs))

- Move much faster (NEW-OPS-REQ-QUICK-BUT-WELL, NEW-OPS-REQ-TIMELY-DM)

- Implement minimal functionality, not bells and whistles (NEW-OPS-REQ-GUIDE-AND-PROFILE, NEW-OPS-REQ-ITER)

- Have running code (NEW-OPS-REQ-READILY-IMPLEM, NEW-OPS-REQ-TOOLS)

- Have vendors and operators on board at the time of developing the solution independent compliance suite to validate things.

- Need to coorelating data learned from different means (IPFIX, BMP, Models)