

# **Re-chartering Progress Update & New Charter Unscrambling IETF 105 Montreal**

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# Where are we at ?

- ANIMA WG has finished work on first charter (original 5 docs)
  - RFC8366 (Voucher) , RFC8368 (Stable Connectivity)
  - RFC-editor waiting on dependencies: GRASP, Prefix-management, Reference Model
  - AD/IESG review: ACP, BRSKI
  - "Only" 6 documents but ca. > 500 pages of good work!
  - Two more drafts under the first charter: grasp-api, constrained voucher
- Charter was tightly constrained to work on these items
  - Round 25 "out-of-scope" individual drafts submit to WG, 11 out of them still alive

# Rechartering Efforts

- Did start to write up proposed charter around IETF 102
  - Many rounds discussions with WG and have converged before IETF 103
- State changed to Informal IESG review from Approved, Nov. 4, 2018
  - 8 update version since then
- The latest version 2.0.9 has clean signal from IESG, waiting for official upload by corresponding AD, Ignas Bagdonas
- Will be public for external review and wider comments
  - We could not have a new charter to adopt new draft until August, 2019
- <https://trac.ietf.org/trac/anima/wiki/Recharter2019>

# Version 2.0.9 Draft charter

- The Autonomic Networking Integrated Model and Approach (ANIMA) working group develops and maintains specifications and documentation for interoperable protocols and procedures for automated network management and control of professionally-managed networks.
- The vision is a network that configures, heals, optimizes and protects itself. The strategy is the incremental introduction of components to smoothly evolve existing and new networks accordingly.
- ANIMA work will rely on the framework described in [draft-ietf-anima-reference-model](#) already approved for publication. Work not related to this framework is welcome for review, but WG adoption of such work requires explicit rechartering. The two concrete areas of the reference model are (1) the Autonomic Networking Infrastructure (ANI), and (2) Autonomic Functions (AF) built from software modules called Autonomic Service Agents (ASA).
- The ANI is specified through prior ANIMA work. It is composed of the Autonomic Control Plane (ACP; [RFC 8368](#)), Bootstrap over Secure Key Infrastructures (BRSKI) including Vouchers ([RFC8366](#)), and the Generic Autonomic Signaling Protocol (GRASP). ANIMA will work on closing gaps and extending the ANI and its components.
- ANIMA will start to define Autonomic Functions (AF) to enable service automation in networks; it will also work on generic aspects of ASA including design guidelines and lifecycle management, coordination and dependency management.
- The reference model also discusses Intent, but ANIMA will not work on this without explicit rechartering. It will rely on the Network Management Research Group (NMRG) to define the next steps for this topic. ANIMA will coordinate with other IETF and IRTF groups as needed.

# Version 2.0.9 Draft charter (II)

- The scope of possible work items are (additional works are subject to extra approval from the responsible AD):
  - Extensions to the ANI, including variations of ANI deployment (e.g. in virtualised environments), information distribution within an AN, ANI OAMP interfaces (Operations, Administration, Management, Provisioning), interaction with YANG-based mechanisms, defining the domain boundary and membership management of the domain.
  - Support for Autonomic Service Agents, including design and implementation guidelines for ASAs, life cycle management, authorisation and coordination of ASA.
  - BRSKI features, including proxies, enrolment, adaptations over various network protocols, variations of voucher formats.
  - Generic use cases of Autonomic Network and new GRASP extensions/options for them, including bulk transfer, DNS-SD interworking, autonomic resource management, autonomic SLA assurance, autonomic multi-tenant management, autonomic network measurement.
  - Integration with Network Operations Centers (NOCs), including autonomic discovery/connectivity to NOC, YANG-based ANI/ASA management by the NOC and reporting AF from node to NOC.

# Version 2.0.9 Draft charter (III)

- The initial set of milestones targets documents for the following topics.
  - Lifecycle and Management of Autonomic Service Agents (ASA), draft-\* -lifecycle-management-asa
  - Guidelines for developing Autonomic Service Agents (ASA), draft-\* -anima-asa-guidelines
  - Information distribution over GRASP, draft-\* -anima-grasp-distribution
  - Constrained Voucher Artifacts for Bootstrapping Protocols, [draft-ietf-anima-constrained-voucher](#)
  - Constrained Join Proxy for Bootstrapping Protocols, draft-\* -anima-constrained-join-proxy

Thank You