

New Charter Unscrambling

IETF 106 Singapore

ANIMA chairs

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ANIMA WG charter 2 – 2019/09/06 (1)

- 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).

ANIMA WG charter 2 – 2019/09/06 (2)

- 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.

ANIMA WG charter 2 – 2019/09/06 (3)

- 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, authorization and coordination of ASA. - BRSKI features, including proxies, enrollment, 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.

Current documents – from charter 1

RFC

- [RFC 8366](#) (*was draft-ietf-anima-voucher*)
- [RFC 8368](#) (*was draft-ietf-anima-stable-connectivity*)

• MisREF

- [draft-ietf-anima-grasp-15](#)
- [draft-ietf-anima-prefix-management-07](#)
- [draft-ietf-anima-reference-model-10](#)

In IESG review

- [draft-ietf-anima-autonomic-control-plane-21](#)
- [draft-ietf-anima-bootstrapping-keyinfra-30](#)

In WG work

- [draft-ietf-anima-constrained-voucher-05](#)
- [draft-ietf-anima-grasp-api-04](#)

Current Milestones – for charter 2

- Several Milestones wrong

- Milestones proposed before IETF105 by chairs had adoption of documents for between IETF 106 and IETF 107 and then submission to IESG within 3...4 IETF cycles.
- Current Milestones show submission of documents to IESG with dates that are closer to the dates suggested for WG adoption
- Not much sense to re-enter correct information without knowing what went wrong between submitting milestones before IETF 105 and current AD approved milestones.

Nov 2019 Submit Information distribution over GRASP to the IESG
Not adopted by WG yet

Dec 2019 Submit Constrained Voucher Artifacts for Bootstrapping
Protocols to the IESG

Dec 2019 Submit Constrained Join Proxy for Bootstrapping
Protocols to the IESG . Not a WG document yet

Mar 2020 Submit Lifecycle and Management of Autonomic Service
Agents to the IESG. Seems to have been folded into next document ?!

Mar 2020 Submit Guidelines for Developing Autonomic Service
Agents to the IESG. Not a WG document yet

Jul 2020 Recharter or close the WG
Definitely wrong time. Was 2021 I think in what chairs proposed.

Target drafts for WG adoption ! now ?!

- These were mentioned during rechartering to IESG
- Adoption ask after presentations, then staggered (2 week intervals) after IETF106.
- Information distribution over GRASP
 - [draft-liu-anima-grasp-distribution-12](#)
- Guidelines for developing Autonomic Service Agents (ASA)
 - [draft-carpenter-anima-asa-guidelines-07](#)
- Constrained Join Proxy for Bootstrapping Protocols
 - No presentation scheduled @IETF106 ??? (asked authors)
 - [draft-vanderstok-anima-constrained-join-proxy-02](#)
- *Would result in 5 drafts in WG before end of year if successfully adopted*
 - *But wait, there is more*

Anima proposed / associated documents

- Showing only non-expired documents
 - Topics of non-expired documents in this list considered by chairs to be within scope of charter 2.
 - Authors please express your desire / planned timeline for adoption by WG
 - In presentation, or if not presenting, on mailing list
 - WG, please consider what you see as most important next (may want to adopt most mature first)
 - Remember long discussion during recharter how to better manager WG resources to ensure timely WG-adoption->WG-last-call
- More expired documents, authors please refresh first if desired for WG to review again
- [draft-carpenter-anima-grasp-bulk-04](#)
- [draft-carpenter-anima-l2acp-scenarios-01](#)
- [draft-carpenter-anima-quads-grasp-02](#)
- [draft-carpenter-limited-domains-11](#)
- [draft-friel-anima-brski-cloud-01](#)
- [draft-fries-anima-brski-async-enroll-02](#)
- [draft-lear-eap-teap-brski-05](#)
- [draft-richardson-anima-smarkaklink-01](#)
- [draft-friel-brski-over-802dot11-01](#)

The End