IETF-95 (Buenos aires)  
ANIMA WG Meetings  
(Autonomic Networking Integrated Model and Approach)

Monday, 17:40-19:40, Afternoon Session III, Buen Ayre B  
Thursday, 16:20-17:20, Afternoon Session II, Atlantico C

Last update: April. 4th, 2016
Note Well

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Before begin the meeting

- Hope you noted the Note Well
- Blue sheets
- Need Jabber scribe(s)
- Need minutes takers
- Remote participation
  
  https://www.ietf.org/meeting/95/remote-participation.html
- Slides
  
  https://datatracker.ietf.org/meeting/95/materials.html#anima
Before begin the meeting

• Mailing List:
  anima@irtf.org
  https://www.irtf.org/mailman/listinfo/aniam

• WG co-chairs:
  – Sheng Jiang
  – Toerless Eckert

• WG web page:
  https://datatracker.ietf.org/wg/anima
Meeting Agenda

- Monday (April 4th, 2016) 2-hour session:
  17:40-19:40  Afternoon Session III, Buen Ayre B

1. WG Dash - 5 min
   17:40 - 17:45, by co-chairs

2. ANIMA Generic Signaling (Design team) - 20 min
   17:45 - 18:05, by Bing Liu, draft-ietf-anima-grasp

3. ANIMA Auto Bootstrapping (Design team) - 15 min
   18:05 - 18:20, by Max Pritikin, draft-ietf-anima-bootstrapping-keyinfra

4. Autonomic Control Plane - 20 min
   18:20 - 18:40, by Michael Behringer, draft-ietf-anima-autonomic-control-plane

5. Reference model - 40 min

6. Autonomic Prefix Management in Large-scale Networks - 10 min
   19:20 - 19:30, by Sheng Jiang, draft-ietf-anima-prefix-management

7. An open source implementation of SNBI & ACP - 5 min
   19:30 - 19:35, by Toerless Eckert

8. Using Autonomic Control Plane for Stable Connectivity of Network OAM - 5 min
   19:30 - 19:40, by Toerless Eckert, draft-ietf-anima-stable-connectivity
Meeting Agenda (Cont.)

- Thursday (April 7th, 2016) 1-hour session:
  16:20-17:20  Afternoon Session II, Atlantico C

1. On-site progress update for WG documents - 5 min
   16:20 - 16:25

2. * Autonomic Function Lifecycle Management - 10 min
   16:25 - 16:35, by Pierre Peloso, draft-peloso-anima-autonomic-function

3. * Autonomic Functions Coordination - 10 min
   16:35 - 16:45, by Laurent Ciavaglia, draft-ciavaglia-anima-coordination

4. * Information and Knowledge exchange in Autonomic Networks - 10 min
   16:45 - 16:55, by Laurent Ciavaglia, draft-ciavaglia-anima-knowledge

5. * Autonomic Network Intent Concept and Format - 10 min
   16:55 - 17:05, by Jeferson C Nobre, draft-du-anima-an-intent

6. * Information Distribution over GRASP- 10 min
   17:05 - 17:25, by Bing Liu, draft-liu-anima-grasp-distribution

7. Summary & ANIMAfuture activities - 5 min
   17:25 - 17:20, by co-chairs

* mean the non-chartered work items.

ANIMA WG
WG Milestone Status

• WG Documents
  – draft-ietf-anima-gdn-protocol 04 ( Adopted Aug 2015)  
    Next Milestone: Apr 2016, Submit discovery and negotiation protocol(s) to IESG
  – draft-ietf-bootstrapping-keyinfrastructures 02 ( Adopted Aug 2015)  
    Next Milestone: Apr 2016, Submit bootstrap a trust infrastructure solution to IESG
  – draft-ietf-anima-autonomic-control-plane 02 ( Adopted Aug 2015)  
    Next Milestone: Sep 2016, Submit autonomic control plane solution to IESG
WG Milestone Status (2)

• Documents adopted since last meeting
    Next milestone: Sep 2016, Submit the two validation drafts to IESG (Informational)
  – draft-ietf-anima-prefix-management (Adopted Dec 2015)
    Next milestone: Sep 2016, Submit the two validation drafts to IESG (Informational)
    Next milestone: Dec 2016, Submit reference model to IESG (Informational)
ANIMA WG Info

• More discussion will be taken into ANIMA mail list (anima@ietf.org)
• Chairs can be reached by anima-chairs@tools.ietf.org
• Next meeting
  – 96th IETF, July 17-22, 2016, in Berlin, Germany
  – Interim meeting may be arranged
• Next Chartered Milestone:
  – Apr 2016 Submit discovery and negotiation protocol(s) to IESG (Standards Track)
  – Apr 2016 Submit bootstrap a trust infrastructure solution to IESG (Standards Track)
• Proposals without IPRs may be favored over proposals with IPRs by the WG
Reading List

• Background
  – RFC7575, Autonomic Networking: Definitions and Design Goals
  – RFC7576, General Gap Analysis for Autonomic Networking

• WG Documents
  – draft-ietf-anima-gdn-protocol
  – draft-ietf-bootstrapping-keyinfrastructures
  – draft-ietf-anima-autonomic-control-plane
  – draft-ietf-anima-stable-connectivity
  – draft-ietf-anima-prefix-management
  – draft-ietf-anima-reference-model
Reading List (2)

• Individual Documents
  – draft-ciavaglia-anima-coordination
  – draft-ciavaglia-anima-knowledge
  – draft-du-anima-an-intent
  – draft-liu-anima-grasp-distribution
  – draft-liu-anima-grasp-api
  – draft-peloso-anima-autonomic-function
  – draft-richardson-anima-state-for-joinrouter
  – draft-strassner-anima-control-loops
Recharter

• In current charter, as milestone:
  – Dec 2016, recharter to refocus scope, or close

• We have been running second sessions as a forum for potential future work items
  – AN Intent, distribution, coordination, exchanging, …
  – Autonomic Service Agents

• Calling for more potential work items
AN Workshop

• “Research and Standards for Self-Managing 5G Networks” workshop

• European Conference on Networks & Communications (EuCNC 2016), Athens, Greece, June 27-30, 2016
  ➢ http://www.eucnc.eu/
  ➢ as part of the stream “Standardisation”, merged in a half-day workshop with “Network Machine Learning”

• To collect and build
  – A comprehensive roadmap for autonomic networking industry, articulating the research, development and standardization efforts,
  – New research items for study in the IRTF (NMRG and other RGs),
  – Propositions for evolution of the ANIMA WG recharter,
  – Coordinated research efforts, collaborations, and initiatives for research and standards, validation in the frame of the EU 5GPPP, IRTF, IETF and other relevant SDOs and open source projects/communities.

ANIMA WG
Self-organizing in ETSI NGP

- ETSI NGP ISG
  - Next Generation Protocol Industry Specification Group

- Self-organizing Control & Management Planes (work item)
  - Calling individual contribution on autonomic
  - Introducing machine learning as mechanism for autonomic decision

ANIMA WG