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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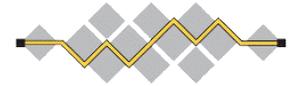
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ANIMA WG

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
     18:40 - 19:20, by Michael Behringer, draft-ietf-anima-reference-model
  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

ANIMA WG

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.
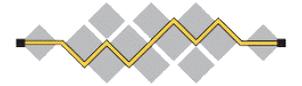
ANIMA WG

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

  - draft-ietf-anima-stable-connectivity (Adopted Dec 2015)
    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)

  - draft-ietf-anima-reference-model (Adopted Dec 2015)
    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
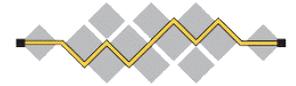
Reading List (2)

- 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.

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
  - https://portal.etsi.org/tb.aspx?tbid=844&SubTB=844