

Autonomic Functions Coordination

[draft-ciavaglia-anima-coordination-00](#)

IETF93 – Prague

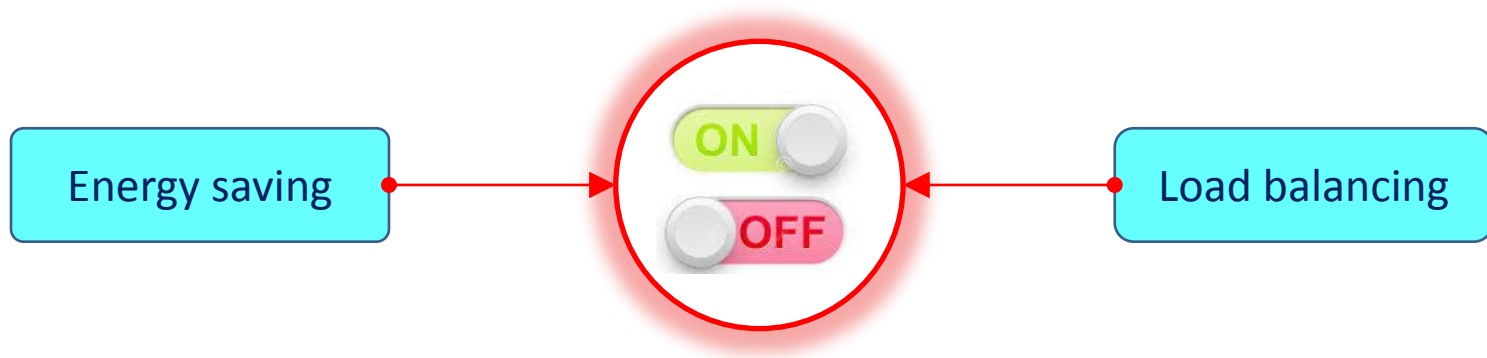
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(remote participation)

Background

- [Topic](#) presented at IETF92/Dallas.
- [Section 8](#) of ANIMA reference model.
- Based on work from EU project [UniverSelf](#).
- Many other references in the literature...

Proposal

- Each AF works towards its individual goal.
- Goals may conflict (cf. diagram).
- Coordinate collective behavior via a common function available in all AFs.



What's in the draft (1)

- Problem statement (cf. previous slide)
- Guiding principles
- Sketch of the solution
- *Requirements (FFS)*
- *Specifications (FFS)*

What's in the draft (2)

- 13 guiding principles
 - Expressing requirements on
 - The coordination function
 - Other components/elements (AF, ACP...)

What's in the draft (3)

- Sketch of the solution
 - Assumptions on AF states / lifecycle
 - Families of algorithms for coordination
 - Random, Time separation, Efficiency bids
 - Coordination lifecycle
 - Sub-functions: identifying, grouping, solving
 - Build-, Deploy- and Run-time

Discussion

- A common function available in all AFs
 - Challenging on many aspects but necessary
 - ANIMA guidance/scoping/inputs needed
- Next steps
 - Revise based on comments received
 - Document impact on other components (AF, ACP, GRASP...)
 - Detail sub-functions and operation
 - Provide evaluation(s) and example(s)