A proposal for a lightweight GRASP

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Lightweight GRASP (Issues)

GRASP is a **generic and extensible** protocol for management and operation, covers all generic operation behaviors without depending on any specific objectives

- Discovering on certain objective

- Request and response for information

- Synchronizing or flooding information

- Negotiating for convergence

It is **build on TCP and IPv6/IPv4**

- Both are heavy for resource-constrained devices

- TCP does not perform well when the network connections are dynamic changed

- TCP is time-consumption for create the connection

Lightweight GRASP (Proposal)

Lightweight GRASP

- Shorten the fixed fields

- Remove TCP dependency, instead by optional embedded reliability check & response model

- Remove IP dependency, extensible to combine with any other protocols, Layer2 protocols, UDP, QUIC, etc.

- Intent for EXPERIMENTAL

Lightweight GRASP (Next)

- Is this proposal in charter of ANIMA WG?

- If yes, is ANIMA WG interested in it?

- If answer for any one of above question is negative, we will change to be

  "lightweight generic signaling protocol" for general operation & management