



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 go
“lightweight generic signaling protocol”
for general operation & management