

ROLL Interim - 14th Oct 2019

Discussion Points:

1. Configuration Option Structure
2. Cap unaware 6LR
3. Capabilities Option structure and semantics

Configuration Option freshness

- How to elide?
 - Use counter in Reserved low-4b
 - Lollipop counter
 - Using just 4b might be an issue?
 - Which doc should this go in?
- What should this counter be called?
 - SET (Static info Eliding counTer)
 - Wanted to call it SEAL but could not think of an appropriate full-form

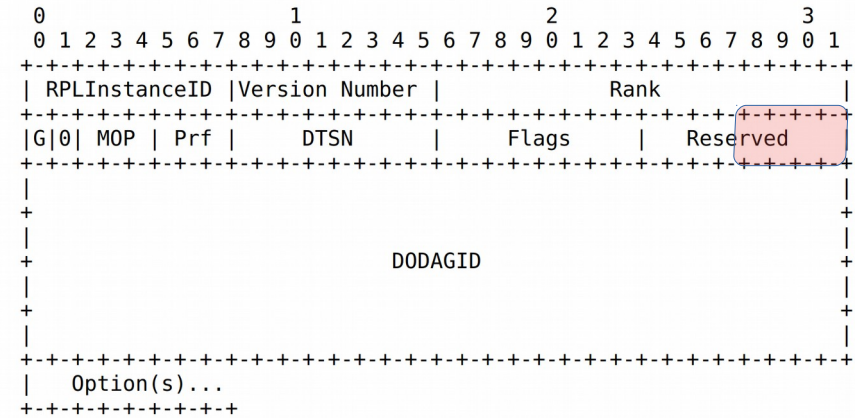


Figure 14: The DIO Base Object



SET counter applicability

- Elide what?
 - Configuration Option
 - Future { Cap Option, MOPex }
 - What else?
 - Prefix Information Option and other options which rarely change
- It is not a problem if different nodes elide different options
 - Since a query will still reveal the complete set of info regardless of what is elided
- Only the root is allowed to change the counter

Capability Option syntax

- Current draft considers CAPs as sequence of bits, but we are moving towards TLV format
- CAP bits
 - Join as router/leaf if cap not understood
 - Copy to children
 - Why do we need such flag? Individual cap spec should define whether the node should copy or not.
 - CAP Info (optional), provides ext info for the CAP

Capability option syntax

[illegible][illegible]

J = Join only as leaf if CAP not understood

C = Copy cap to children

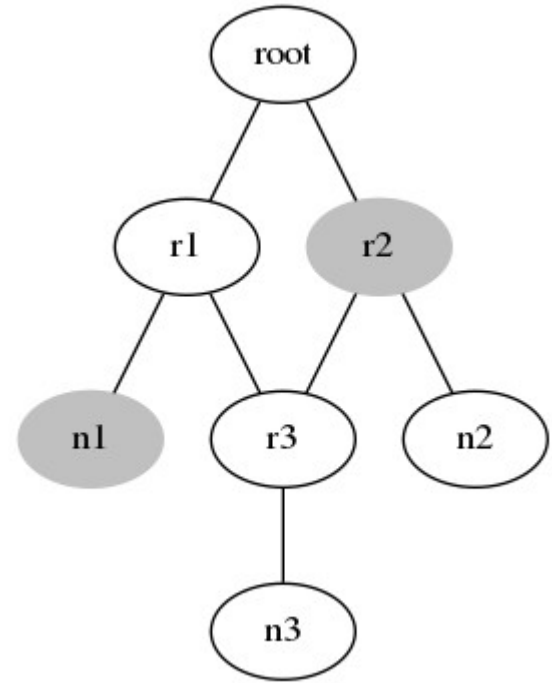
I = Cap Info present

[illegible]

Optional, present only if I-bit set

CAP unaware nodes

- CAP unaware node would strip-off the CAP option
- Thus a mandatory CAP may be ignored
- How to handle it?
 - Should we let CAP be used with only newer MOPs?



Other Points

- Where to carry capabilities?
 - Last time we discussed using new messages!
 - Shall we allow the node to proactively update the capability set?
 - If caps are used for parent selection, then it will result in additional messaging post parent selection.