

Experimental Codepoint Allocation for PCEP

draft-dhody-pce-pcep-exp-codepoints

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Experimental Code Points in PCEP

- PCEP registry - <http://www.iana.org/assignments/pcep>
 - Allocation Policy is – ‘IETF consensus’
 - New assignments via RFCs approved by IESG
- There is a need for keeping some codepoints for ‘Experimental Use’ in PCEP
 - Facilitate experimentation of PCEP and testing in closed environment
 - The value should not collide with existing and future allocations
 - Experiments on Open source PCEP implementation (ODL, ONOS...)

PCEP Codepoints

Messages

- Range – 246 to 255 (8)
- *8 is not prime*
 - *That is true for 255 too!*

Objects

- Range – 224 to 255 (31)

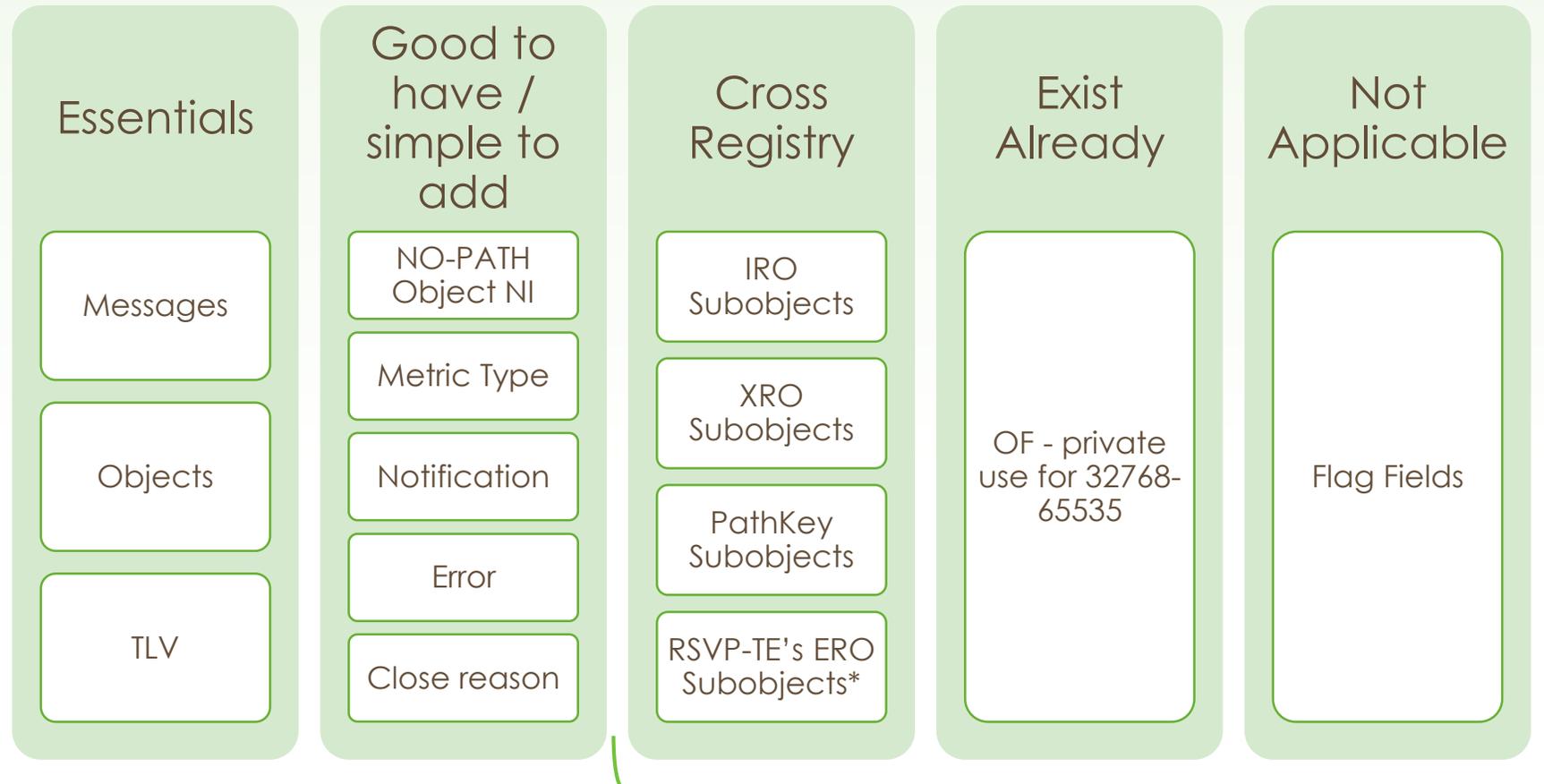
TLVs

- Range – 65280 to 65535 (255)
- Suggestion to increase this a bit more
 - 65024 to 65535 (511)

Allocation Policy

- Set as “Experimental”
- IANA does not record specific assignment
- The ongoing experiment codepoints could be maintained at the PCE WG wiki
 - <https://trac.tools.ietf.org/wg/pce/trac/wiki>
 - A new section is added
- As the experiment matures and an early IANA allocation (or RFC publication) is done, the new IANA assigned value is used.
 - The experimental codepoints are freed up.

Classifications for PCEP sub-registries



Our Opinion – to not include this in the scope of this work

Errors & Notifications

Error-Types
& Error-
Values

Error-Types – 224 to 255 with Error-Value 0 to 255 each

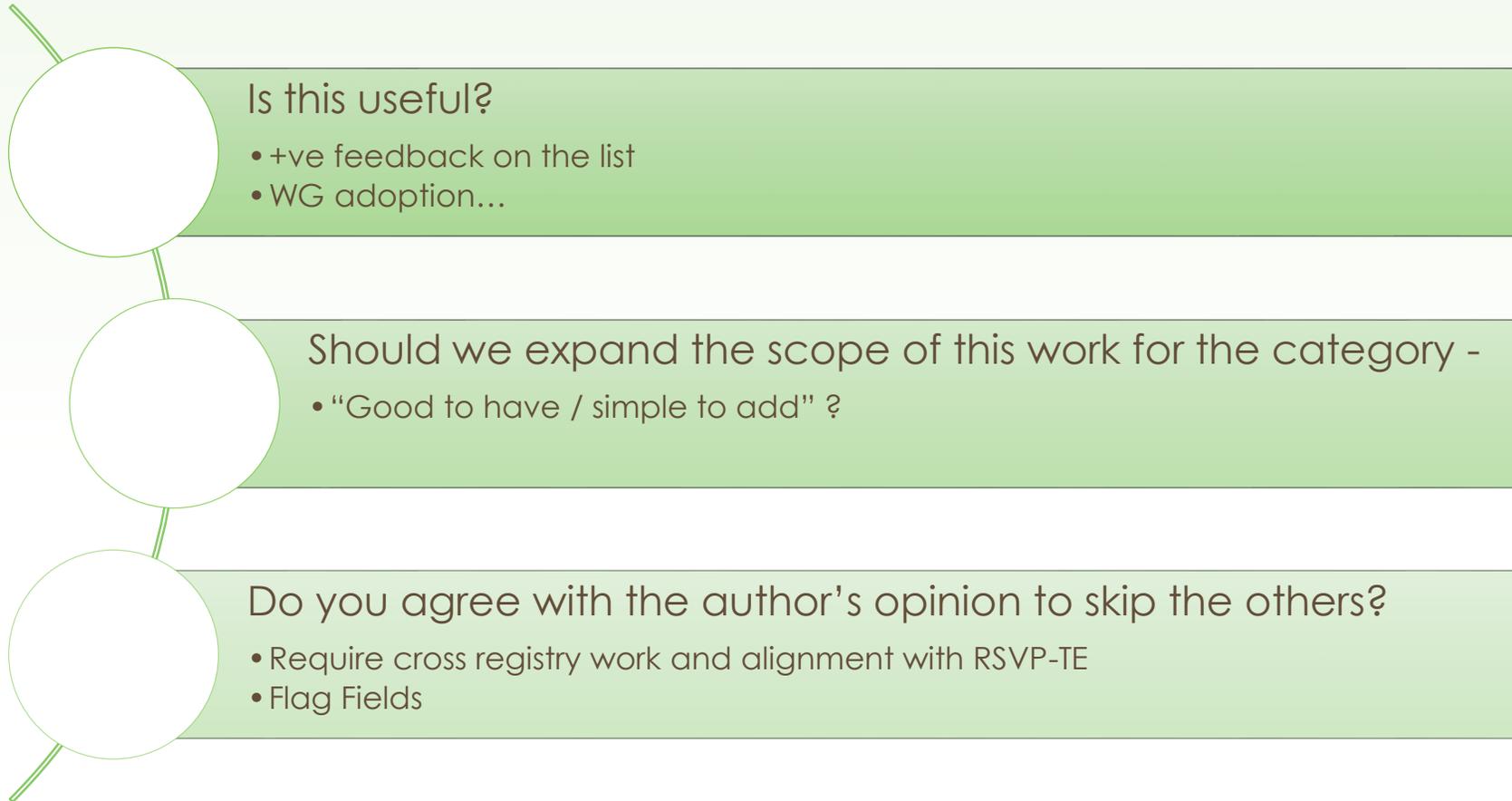
Existing Error-Types – should error-value 224 to 255 be set aside for experimentation?

Notification-
Types and
Notification-
Values

Notification-Types – 224 to 255 with Notification-Value 0 to 255 each

Existing Notification-Types – should notification-value 224 to 255 be set aside for experimentation?

Questions to the WG?



Thank You!