One-Time Extended Community Based ORF

draft-dong-idr-one-time-ext-community-orf-00

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Motivation

- In some scenarios operators needs to retrieve routes with specific extended communities
  - Changes of local policy which impacts routes with specific extended communities
  - Route recovery for specific VPN instance

![Diagram showing network with VPNs and routers](image)
Motivation (cont.)

• Route Refresh [RFC2918] may not be suitable
  – Whole Adj-RIB-Out re-advertisement
  – Unnecessary route processing overhead
  – Unnecessary bandwidth consumption

• RT Constrain [RFC4684] may not be suitable
  – Will not send updates unless RT is changed
  – Sometimes re-advertisement is needed with RT unchanged

• A new operational tool is needed
One-Time Extended Community ORF

- A new ORF type used to solicit one-time re-advertisement of routes with specific extended communities
  - Only used as one-time filters and MUST not change any previously installed ORF entry
    - **Action**: ignored on receipt (no impact on peers’ ORFs)
    - **Match**: ignored on receipt (same as in [ext-comm-orf])
    - **Type specific part**: a single extended community (8 octets)

- One-Time ORFs may be used in combination with enhanced RR for consistency validation of a subset of RIB
Next Steps

• Solicit comments & feedbacks
• Revise the draft