IDR at IETF 84

Chairs slides
Note Well

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Agenda

- Administrivia 10 minutes
- BGP Flow-spec Extended Community for Traffic Redirect to IP Next hop
  Adam Simpson 10 minutes
- BGP Tunnel Address Prefix Attribute and Tunnel Address Prefix Extended Community
  Xuxiaohu 15 minutes
- Transitive BGP Graceful Restart
  Alvaro Retana 10 minutes
- North-Bound Distribution of Link-State and TE Information using BGP
  Stefano Previdi 5 minutes
- Using BGP for routing in large-scale data centers
  Petr Lapukh 20 minutes
- Autonomous System (AS) Reservation for Private Use
  Jon Mitchell 15 minutes
- Speaker shuffling time 5 minutes Total 1 hour 30 minutes
Status - outgoing

- Published RFCs
  - RFC 6608 (draft-ietf-idr-fsm-subcode-03)
- Approved Waiting for RFC editor
  - Draft-ietf-idr-as0-05
- Approved Waiting for AD write-up
  - draft-ietf-idr-rfc4893bis-07
- Submitted for IESG approval
  - Draft-ietf-bgp-issues-01
- In MIB Doctor review
  - Draft-idr-bgp4-mibv2
Status

Added since Last IETF

• draft-ietf-idr-rfd-usage-00

WG Adoption Call Closed not adopted

• draft-uttaro-idr-bgp-persistence
Looking for implementations

- draft-ietf-idr-aigp-07
- draft-ietf-idr-as4octet-extcomm-generic-subtype-05
- draft-ietf-idr-bgp-enhanced-route-refresh-01
- draft-ietf-idr-bgp-flowspec-oid
- draft-ietf-idr-bgp-gr-notifications
- draft-ietf-idr-bgp-ipv6-rt-constrain-01
- Draft-ietf-idr-bgp-nh-cost-01
- draft-ietf-idr-bgp-optimal-route-reflection-02
- Draft-ietf-idr-bgp-mibv2-13
- draft-ietf-idr-bgp-multisession-06
Looking for implementations (2)

- draft-ietf-idr-custom-decision
- draft-ietf-idr-dynamic-cap-14
- draft-ietf-idr-enhanced-gr-01
- Draft-ietf-idr-error-handling-02
- draft-ietf-idr-ext-opt-param-02
- draft-ietf-idr-legacy-rtc-00
- Draft-ietf-idr-link-bandwidth-02
- Draft-ietf-mrai-dep-dep
- Draft-ietf-idr-rfc4760bis
Upgrades

Need implementations for these upgrade drafts:

• Draft-ietf-idr-as4octet-extcomm-generic-subtype-05
• Draft-ietf-idr-bgp-enhanced-route-refresh-01

BIS-es

• draft-ietf-idr-rfc4760bis-03 (MP-BGP)
NM - MIBS

• Draft-ietf-idr-bgp-mibv2-13 –
  — Heading for Last call (see messages)
• Draft-ietf-idr-bgp-mibv2-tc-mib-03
  — Will be coming
Status Error Handling (Group)

Key draft by Grow WG:
• draft-error-handling-02
  ─ Still getting good implementation reports

Other documents:
• draft-idr-as0-03 – passed WGLC
• draft-idr-bgp-extended-messages
• Draft-idr-operational-message-00

Upgrade Documents
• Draft-ietf-idr-as4octet-extcomm-generic-subtype-05

Draft with combination list & process for upgrade
• Draft-hares-RFC4271-error-update-00 (coming)
Status Graceful Restart

• Graceful Restart Respin started
• Goal:
  – Clarify operational modes (helper, managed, headless),
  – Fix bugs, clarify language

• Related drafts
  – Draft-idr-bgp-gr-notification-00
  – Draft-idr-enhanced-gr-00

Draft with combination list & process for upgrade
• Draft-hares-RFC4271-GR-update-00 (coming)
Status Route Refresh/ORF update

• Route Refresh Update
Draft-ietf-idr-bgp-enhanced-route-refresh-0

• Goal:
  – Collect changes to RR
  – Update Pull in any ORF (Add your proposals)

Draft with combination list & process for upgrade
• Draft-hares-RFC4271-RR-ORF-update-00 (coming)
Servers

- draft-ietf-ix-bgp-route-server-03
BGP Paths & Path Selection

- Draft-idr-add-paths-06
- Draft-idr-add-paths-guidelines-01
- Draft-idr-best-path-external-06
- Idr-bgp-nh-cost-00
- draft-ietf-idr-custom-decision

- Still looking for implementations
- Path Calculation will be consider as a cluster after Error, GR, RR/ORF –
Q & A