IETF 115 IDR

IETF 115 (London & Online) – November 2022

WG Chairs:
- Jeff Haas
- Sue Hares
- Keyur Patel

Secretary:
- Jie Dong

This session is being recorded
Note Well

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Definitive information is in the documents listed below and other IETF BCPs. For advice, please talk to WG chairs or ADs:

● BCP 9 (Internet Standards Process)
● BCP 25 (Working Group processes)
● BCP 25 (Anti-Harassment Procedures)
● BCP 54 (Code of Conduct)
● BCP 78 (Copyright)
● BCP 79 (Patents, Participation)
● https://www.ietf.org/privacy-policy/(Privacy Policy)
Meeting Information

- **Blue Sheet**
  - Blue sheets will be automatically generated when you login into the Meetecho

- **Minutes Taking**
  - [https://notes.ietf.org/notes-ietf-115-idr](https://notes.ietf.org/notes-ietf-115-idr)

- **IDR Session Agenda at**

- **Materials/Slides at**
  - [https://datatracker.ietf.org/meeting/115/session/idr](https://datatracker.ietf.org/meeting/115/session/idr)

- **Data Tracker**
  - [http://datatracker.ietf.org/wg/idr](http://datatracker.ietf.org/wg/idr)

- **IDR WG Wiki**
  - [https://trac.ietf.org/trac/idr/wiki](https://trac.ietf.org/trac/idr/wiki)

- **IDR WG Github**
  - [https://github.com/ietf-wg-idr/drafts](https://github.com/ietf-wg-idr/drafts)
IDR Interim held on Oct 13 2022

- CAR/DT Discussion
  - Update on Car progress report - Forum 3 report: on IDR wiki
  - Interoperability Procedures for BGP Routes with Color
    (draft-haas-idr-bgp-diffract) – adopted as drat-ietf-idr-bgp-diffract

- Next Hop Discussion
  - draft-ietf-idr-entropy-label-01
  - draft-ietf-idr-bgp-attribute-announcement
  - draft-kaliraj-idr-multinexthop-attribute-03 - LSVR drafts with BGP next hop changes
  - BESS drafts with BGP next hop changes - call for input
IDR Current Draft Status

Adopted drafts (announced at 10/13 interim)
- draft-ietf-idr-ts-flowspec-srv6-policy
- draft-ietf-bgp-entropy-label-01
- draft-spaghetti-deprecate-8-9-10-01

Adopted since 10/13
- draft-haas-idr-diffract-00 (11/5)
- draft-dunbar-idr-5g-edge-service-metadat-02 – on hold IETF-115 CAN BOF

Not adopted:
- draft-wang-idr-vpn-prefix-orf-04

Drafts still in Adoption process
- draft-dong-idr-node-target-ext-comm-05 (Chairs review)

Next steps on Adopted drafts
- AD review of status, WG LC
- Implementations
  - Draft-spaghetti-deprecate-8-9-10 – contained in existing RFC (9234)
Major Work Items

- BGP-Auto-configuration - DC drafts to ISE/drop, Non-DC?
- BGP-FS -
  - FSv1: Need revised drafts (path-redirect, interfaceset) or drop?
  - FSv2: New drafts should target
- Color/Intent -
  - CAR/CT - Awaiting authors resolution of issues
  - Interop CAR/CT (diffract) – adopted as WG
  - draft-wang-idr-cpr-0 – adoption pending
- NextHop – Working started at 10/13 interim
- Clean-up – Drafts older than 10 years or 5 years?

Details at end of slides
Agenda

- Agenda bashing and Chairs' Slides (10 mins)
- Distribution of TE Policies using BGP-LS (10 mins)
- BGP YANG Model for Service Provider Networks (10 mins)
- Deprecation of AS_SET in BGP (10 mins)
- BGP Extension for 5G Edge Service Metadata (10 mins)
- GP SR Policy Extensions for metric (10 mins)
- Connecting IPv4 Islands over IPv6 Core (4PE) (5 mins)
- BGP Flowspec for IETF Network Slice Traffic Steering (9 mins)
- Problem statement of IDR Traffic Redirection Risks (9 mins)
- BGP for Mirror Binding (9 mins)
- Extended Communities Derived from Route Targets (9 mins)
- BGP MultiNextHop Attribute (14 mins)

Speaker Shuffling Time/Buffer: 5 minutes Total Time: 120 minutes
Details on Major Work Items
## Major work – BGP Auto-config

<table>
<thead>
<tr>
<th>Drafts to WG LC</th>
<th>WG adoption</th>
<th>Implemented</th>
<th>Publication</th>
</tr>
</thead>
<tbody>
<tr>
<td>DC</td>
<td>draft-ietf-idr-bgp-autoconf-considerations-02</td>
<td>Adopted</td>
<td>n/a</td>
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<td>DC</td>
<td>draft-acee-idr-lldp-peer-discovery draft-minto-idr-bgp-autodiscovery draft-ymbk-idr-l3dn draft-ymbk-idr-l3dn-ulpc</td>
<td>Not adopted by IDR</td>
<td>TBD</td>
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<tr>
<td>DC</td>
<td>draft-ietf-lsvr-l3dl draft-ietf-lsvr-l3dl-uplc</td>
<td>No adopted by IDR</td>
<td>Yes</td>
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<tr>
<td>Non-DC</td>
<td>Requirements?</td>
<td>Shall we start?</td>
<td>n/a</td>
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# Major Work – Flow Specification

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<thead>
<tr>
<th>FS work</th>
<th>Drafts to WG LC</th>
<th>WG LC</th>
<th>Implemented</th>
<th>Update required</th>
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<tbody>
<tr>
<td>FSv1</td>
<td>draft-ietf-idr-flowspec-redirect-ip-03&lt;br&gt;draft-ietf-idr-ts-flowspec-srv6-policy&lt;br&gt;draft-ietf-idr-path-redirect&lt;br&gt;draft-ietf-idr-flowspec-interfaceset-05</td>
<td>Pending&lt;br&gt;Pending&lt;br&gt;TBD&lt;br&gt;TBD</td>
<td>Yes&lt;br&gt;Yes – Info draft&lt;br&gt;Maybe&lt;br&gt;Maybe</td>
<td>In process&lt;br&gt;Y: expired&lt;br&gt;Y: expired</td>
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<tr>
<td>FSv2 IDR</td>
<td>draft-ietf-idr-flowspec-v2-01&lt;br&gt;draft-ietf-idr-flowspec-srv6&lt;br&gt;draft-ietf-idr-flowspec-l2vpn&lt;br&gt;draft-ietf-idr-flowspec-nv03&lt;br&gt;draft-ietf-idr-flowspec-mpls-match&lt;br&gt;draft-ietf-idr-flowspec-label</td>
<td>TBD&lt;br&gt;TBD&lt;br&gt;TBD&lt;br&gt;In FSv2&lt;br&gt;In FSv2</td>
<td>No: starting&lt;br&gt;TBD&lt;br&gt;No&lt;br&gt;No&lt;br&gt;n/a&lt;br&gt;n/a</td>
<td>-&lt;br&gt;TBD&lt;br&gt;In review&lt;br&gt;In review&lt;br&gt;EOL&lt;br&gt;EOL</td>
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<td>Individual drafts</td>
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<td>FS – ID</td>
<td>draft-dong-idr-flowspec-network-slice-ts&lt;br&gt;draft-wang-idr-flowspec-dip-origin-as-filter&lt;br&gt;draft-dmc-flowspec-tn-aware-mobility&lt;br&gt;draft-ietf0-idr-srv6-flowspec-path-redirect</td>
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<td>Filter&lt;br&gt;Community&lt;br&gt;Filter</td>
<td>FSv2 Filter&lt;br&gt;FSv2 Filter&lt;br&gt;FSv2 action&lt;br&gt;FSv2 Action</td>
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## Major Work – Color/Intent

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<th>Intent/Color</th>
<th>Drafts to WG LC</th>
<th>WG LC</th>
<th>Implemented</th>
<th>Update required (github)</th>
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<tr>
<td>IDR drafts</td>
<td>draft-ietf-idr-car-00</td>
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<td>Needs resolution of issues</td>
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<td>draft-ietf-idr-ct-00</td>
<td>TBD</td>
<td>Yes</td>
<td>Needs resolution of issues</td>
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<tr>
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<td>Draft-ietf-idr-diffract-00</td>
<td>TBD</td>
<td>TBD</td>
<td>Jeff Haas – will open github</td>
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<tr>
<td>IDR ID</td>
<td>draft-wang-idr-cpr</td>
<td>TBD</td>
<td>Yes (partial?)</td>
<td>WG Adoption call pending</td>
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## Major Work – Next Hop

BESS Chairs asked IDR Chairs to look at Next Hop

<table>
<thead>
<tr>
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<td>draft-kaliraj-idr-multinexthop-attribute-03</td>
<td></td>
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<tr>
<td>BESS drafts</td>
<td>EVPN&lt;br&gt;IPVPN&lt;br&gt;MPVPN</td>
<td>Yes</td>
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<tr>
<td>LSVR</td>
<td>LSVR IBGP Next Hops</td>
<td>Yes</td>
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