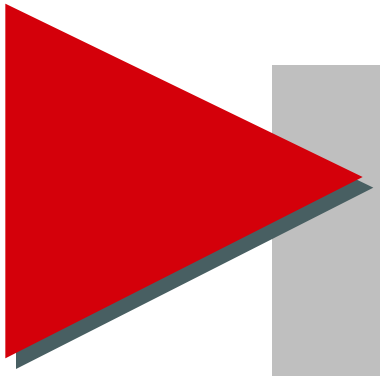
IDRP for IPv4 and IPv6



Yakov Rekhter
Paul Traina

Changes since last meeting

Open / Refresh / Update messages

- Open parameters valid for length of session
- Refresh parameters for occasionally changing data
- Update parameters for data that changes with each path

Changes since last meeting

Open / Refresh / Update messages

- "additional" parameters have unified encoding
- [flags | type | length | value]

Changes since last meeting

attributes

- QOS attribute supported (debate)
- residual error attribute supported
- transmit-delay attribute supported
- IDRP algorithm for distinguising attributes not supported

Changes since last meeting

Support for IP version 4 added

- IP version 4 is a valid transport
- IP v4 address family supported
  - NLRI information
  - NEXT_HOP information
- IP v4 addresses may be RDIs
- IP v4 ASs may be RDIs

RDI encoding

RDIs are 16 octets long (IPv6 prefixes)

- IPv4 address prefixes
  - 12 octet fixed prefix (tbd)

```
0                 1
0123456789012345
----------------   (octets)
ppppppppppppIPv4
```

RDI encoding

RDIs are 16 octets long (IPv6 prefixes)

- AS numbers
  - 12 octet fixed prefix
  - additional 2 octets of zeros

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0                 1
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