

Note Well

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Interdomain Routing (IDR) WG

TUESDAY, November 10, 2009

1300-1500 Afternoon Session I

Orchid East

CHAIR(s): Susan Hares <shares@ghs.com>
John Scudder <jgs@juniper.net>

AGENDA

- o Administrivia 15 minutes
Chairs
 - Note Well
 - Scribe
 - Blue Sheets
 - Document Status
 - Charter

- o draft-dong-idr-vpn-route-constrain-00 15 minutes
Jie Dong

- o draft-ietf-grow-bgp-graceful-shutdown-requirements-01.txt 15 minutes
Bruno Decraene

- o draft-decraene-idr-rfc4360-clarification-00 15 minutes
Pierre Francois

- o draft-vvds-add-paths-analysis-00.txt 15 minutes
Pierre Francois

- o draft-ietf-idr-advisory-00 15 minutes
Tom Scholl

- o draft-ietf-idr-bgp-bestpath-selection-criteria-00 15 minutes
Rajiv Asati

IDR Working Group status

Susan Hares (skh@ndzh.com)

John Scudder (jgs@juniper.net)

Presenting at IDR

- No draft, no slot
- New: Slides at least one day before, or no slot

Document Status

- New Working Group Documents
 - draft-ietf-idr-bgp-bestpath-selection-criteria
- WGLC to begin after IETF
 - draft-ietf-idr-optional-transitive
 - Rfc4893bis
- Advance 4271 to Standard?

Charter Update — Current

The Inter-Domain Routing Working Group is chartered to standardize and promote the Border Gateway Protocol Version 4 (BGP-4) [RFC 1771] capable of supporting policy based routing for TCP/IP internets.

The objective is to promote the use of BGP-4 to support IP version 4 and IP version 6. The working group will continue to work on improving the scalability of BGP.

The current tasks of the WG are limited to:

- Revise and clarify the base BGP4 document (RFC 1771). Note that RFC 1771 no longer documents existing practice and one goal of the update is document existing practice. Determine whether the document can be advanced as full Standard or needs to recycle at Proposed or Draft Standard.

- Submit updated base BGP4 MIB to accompany the revised base BGP4 document.

Once these tasks are finished (means WG consensus, WG Last Call, AD Review, IETF Last Call, and IESG approval for publication), work will progress on the following:

- Review and Evaluate Existing RFCs on AS Confederations and Route Reflection. If changes are needed, create and advance revisions.

- Review and evaluate Multiprotocol BGP (RFC 2858) for advancement as Draft Standard.

- Progress BGP Extended Communities along standards track.

- Extend BGP to support a 4-byte AS number, develop plan for transitioning to usage of 4-byte AS numbers. Advance support for a 4-byte AS numbers along standards track.

- Produce BGP MIB v2 that includes support for AS Confederations, Route Reflection, Communities, Multi-Protocol BGP, BGP Extended Communities, support for 4-byte AS numbers.

- Progress along the IETF standards track a BGP-based mechanism that allows a BGP speaker to send to its BGP peer a set of route filters that the peer would use to constrain/filter its outbound routing updates to the speaker. Currently defined in draft-ietf-idr-route-filter-03.txt.

- Progress along standards track an Outbound Router Filter (ORF) type for BGP, that can be used to perform aspath based route filtering. The ORF-type will support aspath based route filtering as well as regular expression based matching for address groups. Currently defined in draft-ietf-idr-aspath-orf-00.txt.

- Progress a BGP Graceful Restart mechanism along standards track.

- Progress Subcodes for BGP Cease Notification Message along standards track.

- Progress AS-wide Unique BGP Identifier for BGP-4 along standards track.

- Progress Dynamic Capability for BGP-4 along standards track.

- Progress Flow Specification rules along standards track.

Tasks for this working group are limited to those listed above; new items to be added to the charter must be approved by the IESG.

Charter Update — Proposed

The Inter-Domain Routing Working Group is chartered to standardize and promote the Border Gateway Protocol Version 4 (BGP-4) [RFC 4271] capable of supporting policy based routing for TCP/IP internets.

The objective is to promote the use of BGP-4 to support IP version 4 and IP version 6. The working group will continue to work on improving the robustness and scalability of BGP, and extending the protocol as otherwise needed.

Milestones

- Aug 2010 Base BGP specification (RFC 4271) as Full Standard
- Aug 2010 ASpath ORF draft to IESG as a Proposed Standard
- Aug 2010 Submit Dynamic Capability for BGP-4 to IESG as a Proposed Standard
- Aug 2010 Submit AS-wide Unique BGP Identifier for BGP-4 as a Proposed Standard
- Aug 2010 Submit MIB v2 for BGP-4 as a Proposed Standard
- Aug 2010 Submit Multisession BGP as a Proposed Standard
- Nov 2010 BGP Support for Four-octet AS Number Space (revised version)
- Nov 2010 Revisions to the BGP 'Minimum Route Advertisement Interval'
- Nov 2010 Advertisement of Multiple Paths in BGP
- Nov 2010 Error Handling for Optional Transitive BGP Attributes
- Nov 2010 BGP Link Bandwidth Extended Community
- Nov 2010 The Accumulated IGP Metric Attribute for BGP
- Nov 2010 Advertisement of the best external route in BGP

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