

BGP OPERATIONAL MESSAGE

draft-ietf-idr-operational-message

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BGP OPERATIONAL Message:

- End result of merging the DIAGNOSTIC and ADVISORY proposals.

WG Adoption.

- Draft is now draft-ietf-idr-operational message (replacing ADVISORY).

Additional Use Cases.

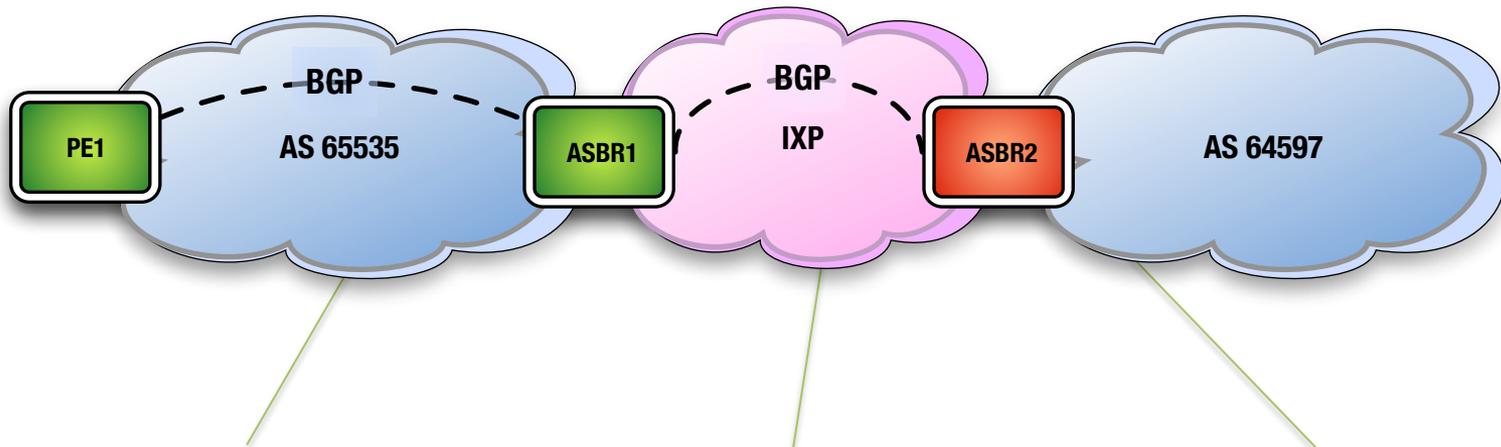
- Discussion of where we see utility of the mechanisms proposed.

Working Group Feedback/Discussions.

- Very keen to discuss comments, further feedback and use cases.

Aiming to Improve Ease of Operating BGP.

- Both for in-band event notification and simple debugging uses.



STATE TLVs:

Intra- and inter-domain debugging capabilities, based on both prefix counts (APCQ, RPCQ) and simple query language (SSQ).

Advisory Demand Message (ADM):

Intended to provide in-band information between BGP neighbours relating to real-time events.

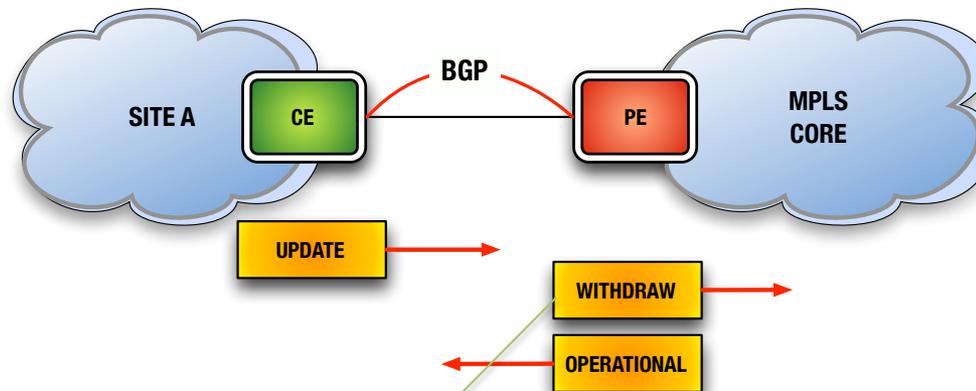
Advisory Static Message (ASM):

“Sticky” information relating to the session – e.g. contact details for NOC.

BGP Error Handling.

Providing Operator Visibility of Enhanced Error Handling.

- Provide a means to notify operator of errors occurring.



Visibility of 'treat-as-withdraw' across devices:

Currently there is no means for occurrences of treat-as-withdraw to be identified (specified in the GROW operational requirements) – lightweight information via MUP or DUP.

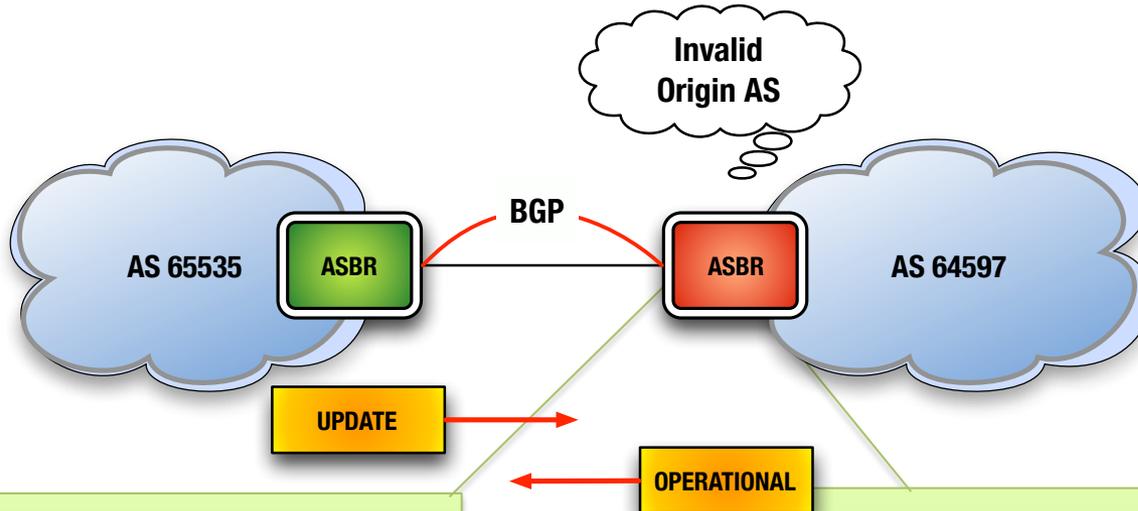
Communication of UPDATE Message:

Key to provide full information of format of erroneous message through encapsulating and retransmitting invalid UPDATE message. Specified in Error Handling requirements draft.

Extensible TLV-based Messaging.

Provide a Reusable In-Band Messaging Framework.

- Both through reusing currently defined TLVs and future developments.



Provide Operator Visibility for UPDATE Content Validation:

Where validation is performed against received UPDATE – OPERATIONAL is a means to notify remote neighbour that invalid information is being propagated.

Intention to be Extensible for Future Use Cases.

By defining new TLVs – intention is for base framework to include required mechanisms (e.g. query/response) to support future uses.

Soliciting Feedback/Comments.

- Is there additional base functionality that should be included?
- Further use cases, or query types that are specifically relevant here?

Next Steps.

- WG discussion of concerns/complexities.
- Update to -01 based on feedback received.