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.

• 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.
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.
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.