

BGP FSM Error Subcode

draft-dong-idr-fsm-subcode-01

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Problem Statement

- Currently there is no subcode for BGP Finite State Machine Error
- Different problems can be notified as FSM Error
 - Receive unexpected message in particular FSM state
 - ...
- Introduce FSM Error Subcodes will provide more detailed information and help fault diagnosing

BGP FSM Subcodes

- Receive unexpected message
 - Subcode 1: Receive unexpected message (Keepalive/Update/Route-Refresh) in OpenSent State
 - Subcode 2: Receive unexpected message (Open/Update/Route-Refresh) in OpenConfirm State
 - Subcode 3: Receive unexpected message (Open) in Established State
 - Type of received unexpected message is carried in the Data field of Notification

Benefits

- Help fault diagnosing in deployed network
- Help development of BGPv4/new features in labs
- Complete the BGPv4 protocol

Next Steps

- Collect comments & feedbacks
- WG document?