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?