Dynamic Capability for BGP

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Document Status

- Version 14 has been there for years
- Multiple implementations
  - Capabilities: address-families, GR
- Comments from implementers on the draft

Recent Updates

- Only template changes in version 15
- Clarifications on "multi-instance capabilities"
  - Each instance SHALL be revised individually
  - Currently only the address-family belongs to this category
- Clarifications on "single-instance capabilities"
  - The whole capability is revised
  - The length field SHOULD be set to zero for "removing" a capability

Implementation Considerations

- Protocol extension is general, and not limited to specific capabilities
- Will be driven by customers' demand
- Be "selective" on capabilities to be supported
  - Tradeoffs between benefits and complexities

Next Steps

- Fix IANA Considerations
  - CAPABILITY message type: value unchanged, re-phrase as suggested
  - Error code: conflicts. New value to be allocated
- Welcome reviews, and implementation experience
- Work with IDR WG chairs on implementation report