

TCP-AO Protection for BGP Monitoring Protocol (BMP)

Requested by

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TCP-AO Protection for BMP

<https://datatracker.ietf.org/doc/draft-hmntsharma-bmp-tcp-ao/>

- BMP uses TCP as transport (RFC7854).
- BMP is applicable for Internet as well as private mpls networks.
- The current BMP specification prescribes the use of IPSec (RFC4304) to address any security concern or unless a transport which can provide mutual authentication.
- The draft requests for a framework that utilizes the TCP-AO to safeguard the BMP sessions.
- TCP-AO would ensure end-to-end authentication of BMP sessions between routers and BMP stations, enhancing session security.
- It ensures that BMP messages are forwarded to trusted peer/collector, mitigating the risk of unauthorized access or data compromise
- BMP is also a long-lived TCP connection and would require key change without tearing down the session.