TCP-AO Protection for BGP Monitoring Protocol (BMP)

Requested by
Hemant Sharma
hemant.sharma@vodafone.com
TCP-AO Protection for BMP


• 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.