KARP IS-IS security gap analysis
draft-chunduri-karp-is-is-gap-analysis-03

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Quick Recap:

This draft summarizes
- the current state of cryptographic key usage in IS-IS protocol
- several previous efforts to analyze IS-IS security
  - base IS-IS specification [RFC1195]
  - [RFC5304], [RFC5310] etc..
Analysis per RFC 6518 (KARP Design guide) & ietf-karp-threats-reqs

- Current State of key usage
- Threat analysis
- Per KARP Design Guide: Requirements for PH-1 (manual keying)
- Per KARP Design Guide: Requirements for PH-2 (Auto Keying)
Issues Addressed in ’01’ version

- WG question on Life time coverage in LSP (impact of 0 lifetime)
  - No threat as full packets are not accepted for purge
- CSNP Packet related threat issue and other issues
  - Processing burden

All the above are addressed.
Issues Addressed in ’02’ version

- P2P deployment threats as pointed by Naiming
- Also SNP related threats (further clarified)
Issues Addressed in ’03’ version (current)

- Comments from IS-IS WG member Les Ginsberg
  - on LSP current recovery mechanism for inter-session replay attacks
- Comments from Sean Turner
  - on IS-IS MI draft analysis
    - threat scope
    - group key requirements

All the above are taken care and sent for review.
Next Steps

- Request WG adoption
Questions & Comments?

Thank You!