LDP Hello Cryptographic Authentication

draft-zheng-mpls-ldp-hello-crypto-auth-01

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Problem Statement

Reported as real problem in operation networks

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mechanisms for use with Hello messages

 The current TCP authentication mechanism can not help here

Page 2

Draft Objective

Enhances the authentication mechanism for LDP

- LSR can be configured to only accept Hello messages

from specific peers when authentication is in use

It's Simple, its Backward Compatible and its Secure

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Page 3

Draft Status

- Karp BGP/LDP/MSDP Design Team formed
- draft-mahesh-bgp-ldp-msdp-analysis-00 produced

Changes Since Last Version

SHA-1 and MAY support either HMAC-SHA-384 or HMAY phographic algorithms update

- Keyed MD5 dropped-considered not strong enough
- HMAC-SHA used instead
- HMAC-SHA-256 is a MUST, SHOULD support HMAC-SHA-1 and MAY support either HMAC-SHA-384 or HMAC-SHA-512

Next Steps

- Continue to gather feedback from the list
- Where should we take this work?
 Need more feedback from security experts
 - Present in Karp tomorrow

Thank you

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