

GTSM for LDP

draft-asati-pignataro-mpls-ldp-gtsm-01

LDP IANA Considerations Update

draft-asati-pignataro-mpls-ldp-iana-01

Carlos Pignataro cpignata@cisco.com

Rajiv Asati rajiva@cisco.com

IETF 80 - Prague, Czech Republic

Motivation - mpls-ldp-gtsm

- Increase LDP's security by utilizing the Generalized TTL Security Mechanism (GTSM)
- Simple yet powerful Standards-Track technique [RFC5082]

Methodology - mpls-ldp-gtsm

- GTSM Flag in Common Hello Parameter TLV

G, GTSM

A value of 1 specifies that this LSR wishes to support GTSM procedures, where a value of 0 specifies that this LSR does not wish to support GTSM.

Figure 1: GTSM Flag in Common Hello Parameter TLV

Motivation - mpls-ldp-iana

- When trying to write the “IANA Considerations” to allocate the GTSM bit, we discovered that there was no registry for it

Methodology - mpls-ldp-iana

- Combed through RFC5036 to find all number spaces without IANA policy:
 - ATM Label TLV o Frame Relay Label TLV
 - Common Hello Parameters TLV (* needed for GTSM)
 - Common Session Parameters TLV
 - ATM Session Parameters TLV
 - Frame Relay Session Parameters TLV

Documents Status

- We request both documents become MPLS WG items
- We request both documents advance in parallel (IANA dependency)
- Looking forward to the WG feedback
 - Very short: 2-3 pages each document

Thank You !

{Carlos; Rajiv}