

LISP Map Server Reliable Transport

draft-kouvelas-lisp-map-server-reliable-transport-07

J. Leong
D. Lewis
B. Pitta
C. Cassar
I. Kouvelas
J. Arango

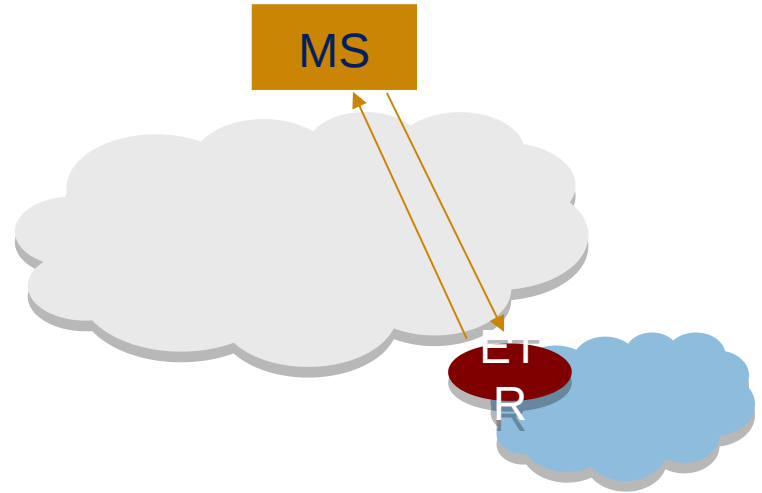
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Comments from last meeting

- How does an ETR know that it can switch to reliable transport?
- Add additional transport protocols: QUIC

How does the ETR know it can use reliable transport?

- An ETR starts with the periodic UDP registration
- The periodic UDP registration is maintained until an optional reliable session is established
- How does the ETR know that it can establish a reliable transport session?

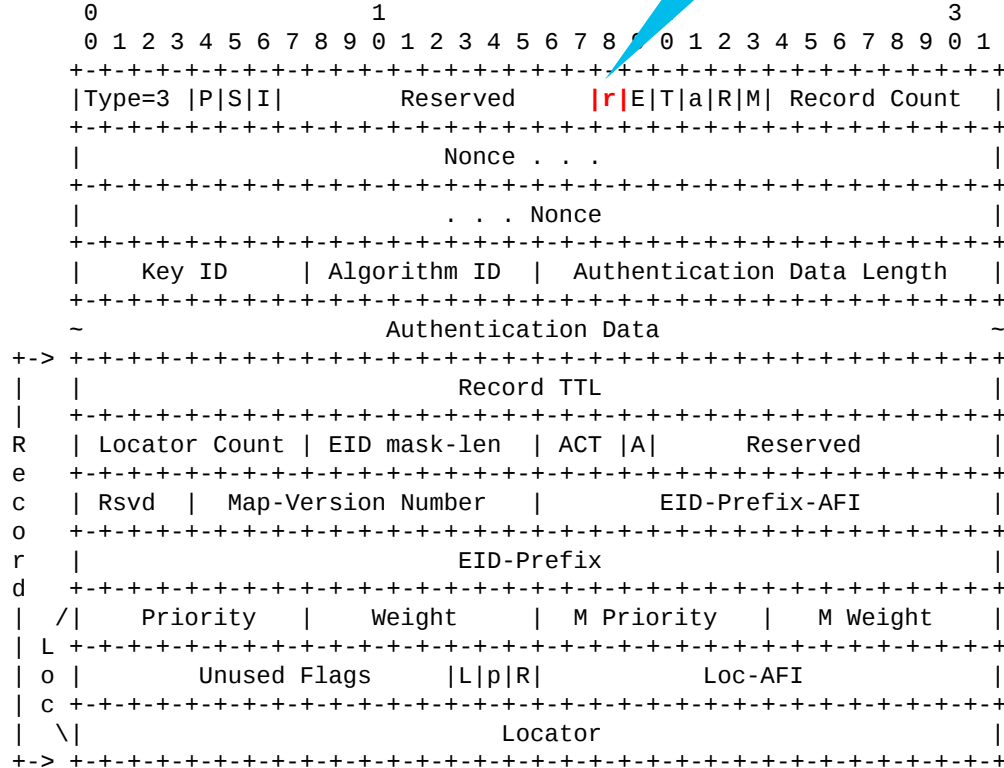


Proposal in the mailing list

- (1) Since we have bits available in the Map-Register header, ETR sets a new "RT" bit to indicate to the Map-Server that it wants to use TCP.
- (2) If the Map-Server sends a Map-Notify with the "RT" bit set (ie. copied from the Map-Register), then the ETR knows the Map-Server is listening on TCP port 4342 and will accept TCP connections.
- (3) If the Map-Server sets the "RT" bit to zero, then the ETR knows it cannot use RT. This can be due to a MS implementation that supports but doesn't want to use RT (so it clears the bit in the Map-Notify) or to an old implementation that doesn't know about the bit so it would default to 0.

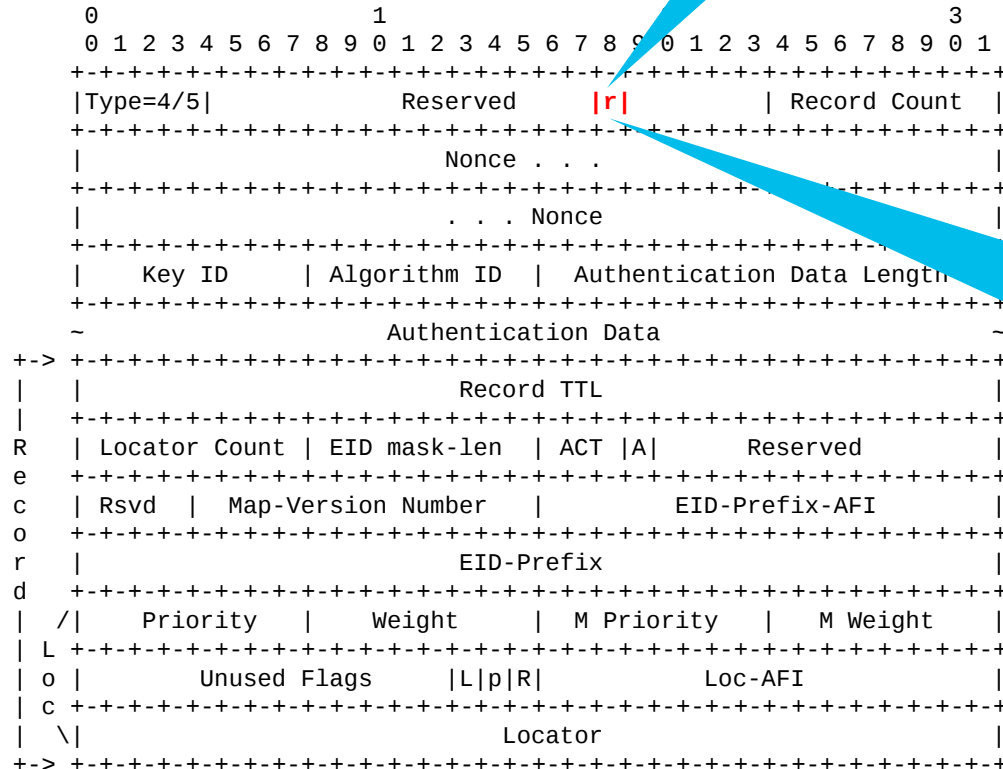
Map-Register RT bit

RT bit



Map-Notify RT bit

RT bit



Should we use the same location for the bit in the Map-Notify?

QUIC support

- Working on incorporating QUIC support in the draft
- Two outstanding points:
 - 1) Should we reserve a UDP port other than 4342? Should we use default QUIC ports?
 - 2) How does the ETR choose a specific reliable transport protocol?
 - Leaning towards making the option an implementation choice
 - The ETR should always be able to try the different protocols that it supports until it succeeds establishing a session.

Comments, Questions,
WG Adoption?