



OMA Location and SIP/IP Core Status

4th SDO Emergency Services Coordination Workshop

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» LOCSIP Description

» Status

LOCSIP Background

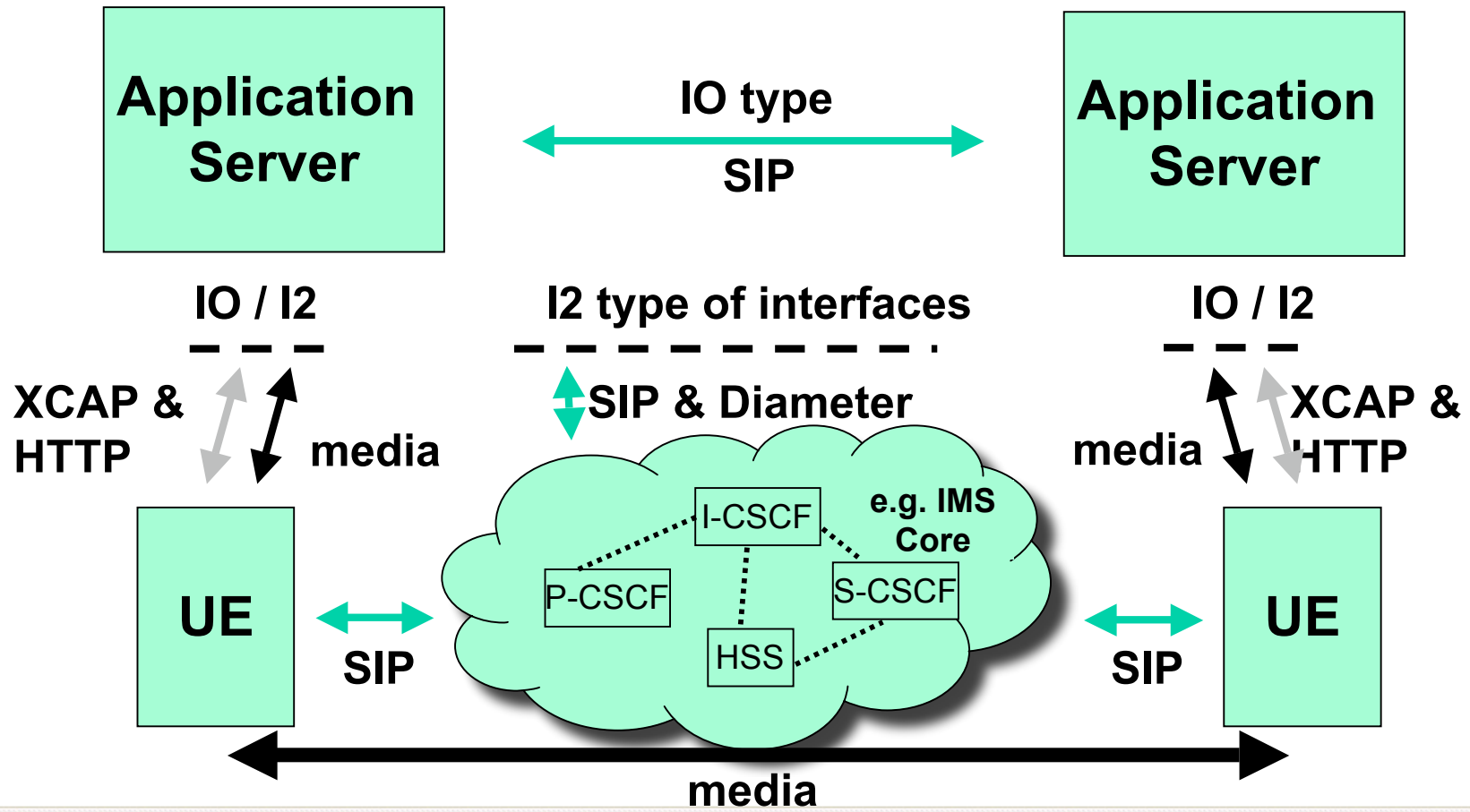


- » OMA developed the MLS enabler (Mobile Location Service) for exposure of terminal location to applications without any positioning determination mechanisms.
- » OMA developed SUPL procedures and protocols for positioning the determination of a terminal utilizing an IP connection between server and terminal in an IP based environment.
- » Both mechanisms support SIP-URI, but not to an application (e.g. IMS) within a SIP/IP core network. The SIP Application Server or Terminal must implement additional non-SIP interfaces to the Location Server to expose location information.
- » OMA wants an easy implementation for the SIP Application Server and Terminal when location service can utilize SIP/IP in its interface and procedure.

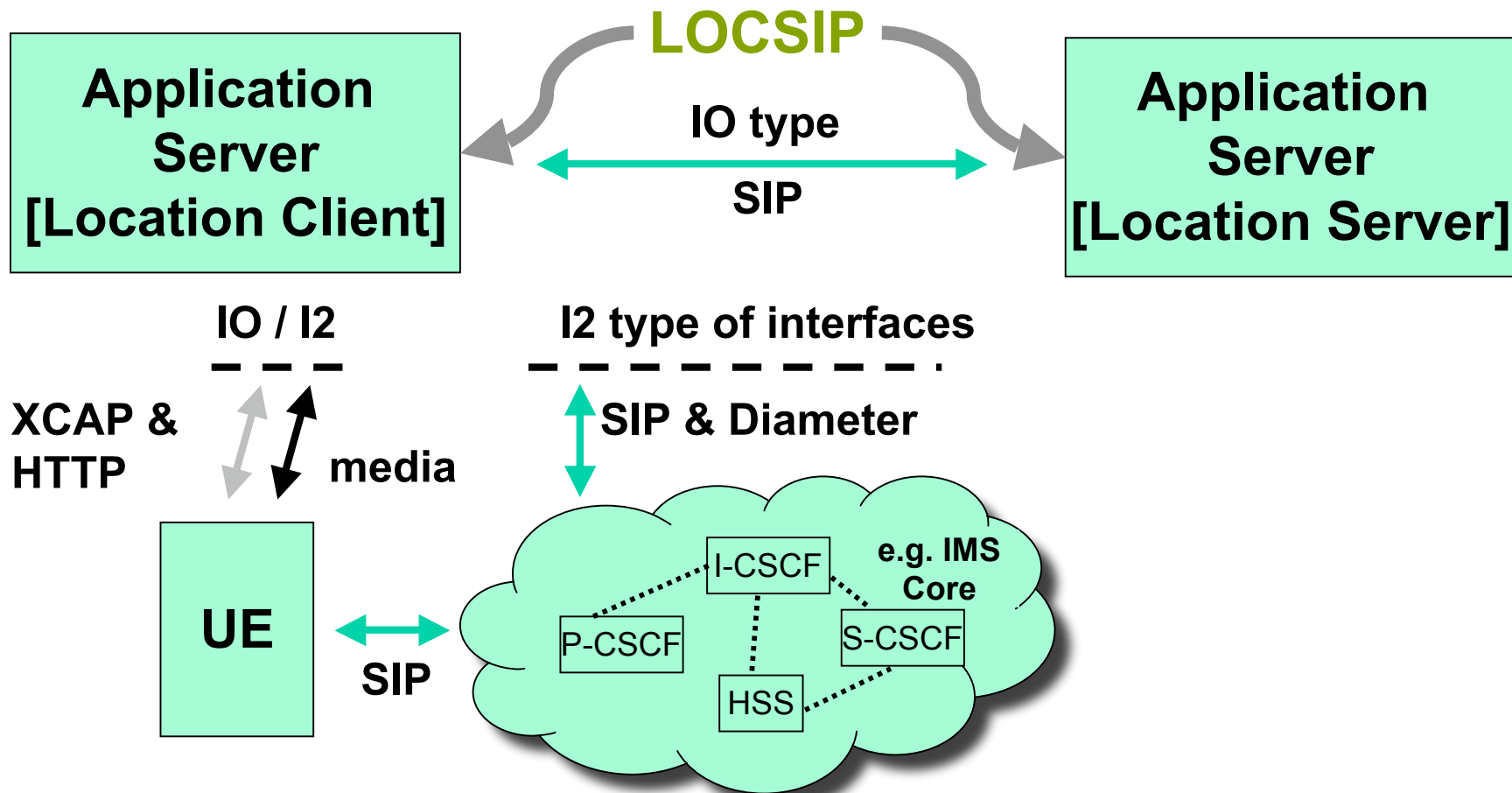
LOCSIP Enabler



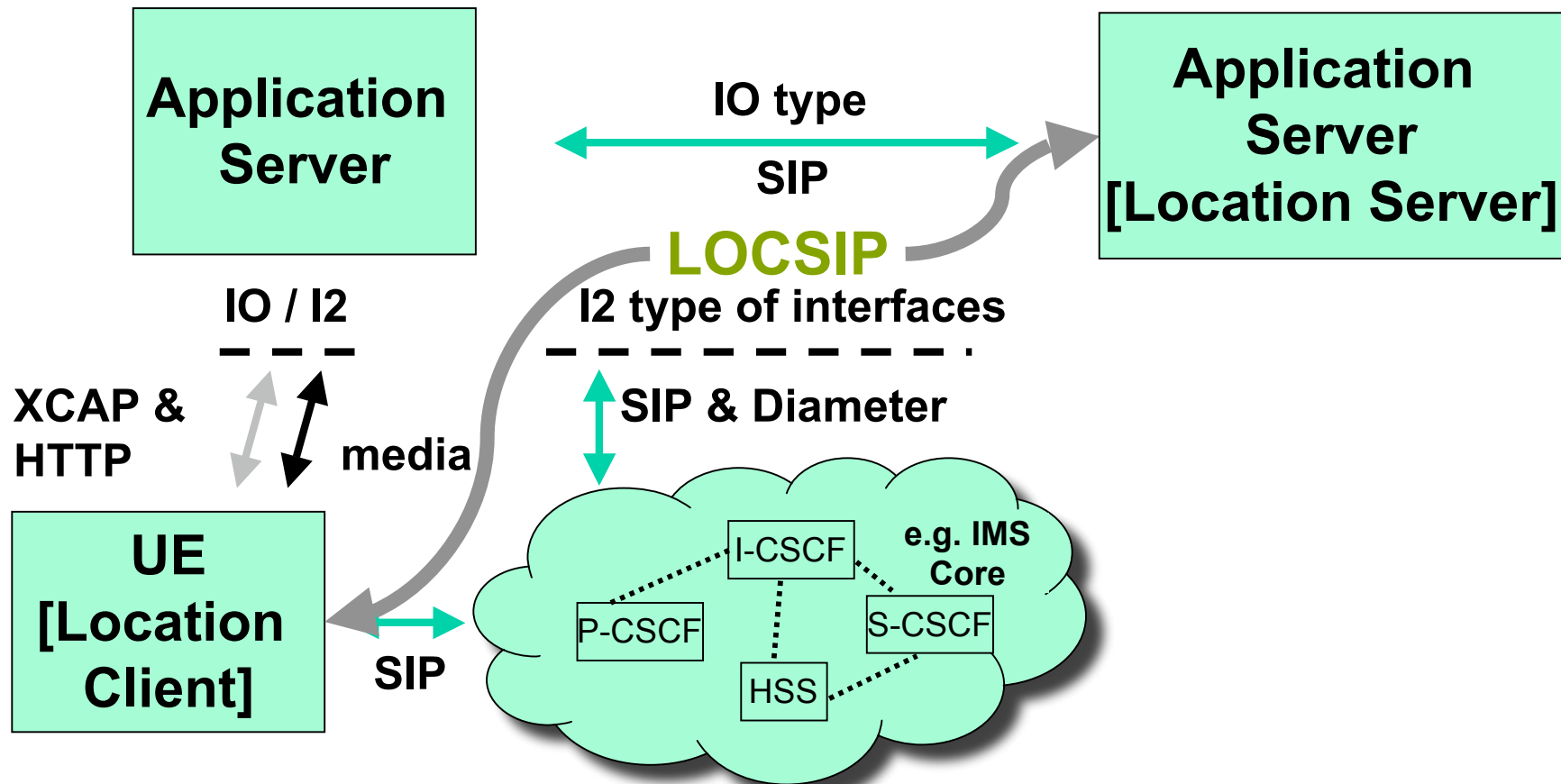
- » It exposes location information to applications (e.g. OMA XDM enabler) in a SIP/IP network and on any application servers and terminals inside SIP/IP.
- » It requests and responds to location subscriptions over a standardised SIP-based interface.
- » The requirement is almost done. The architecture was recently started.
 - » Defined requirements & use cases for some applications e.g. friend finder, advice of charge, push to talk over cellular.
 - » Still defining requirements and use cases for emergency service.
 - » Requirements must be submitted before 28 May 2008.



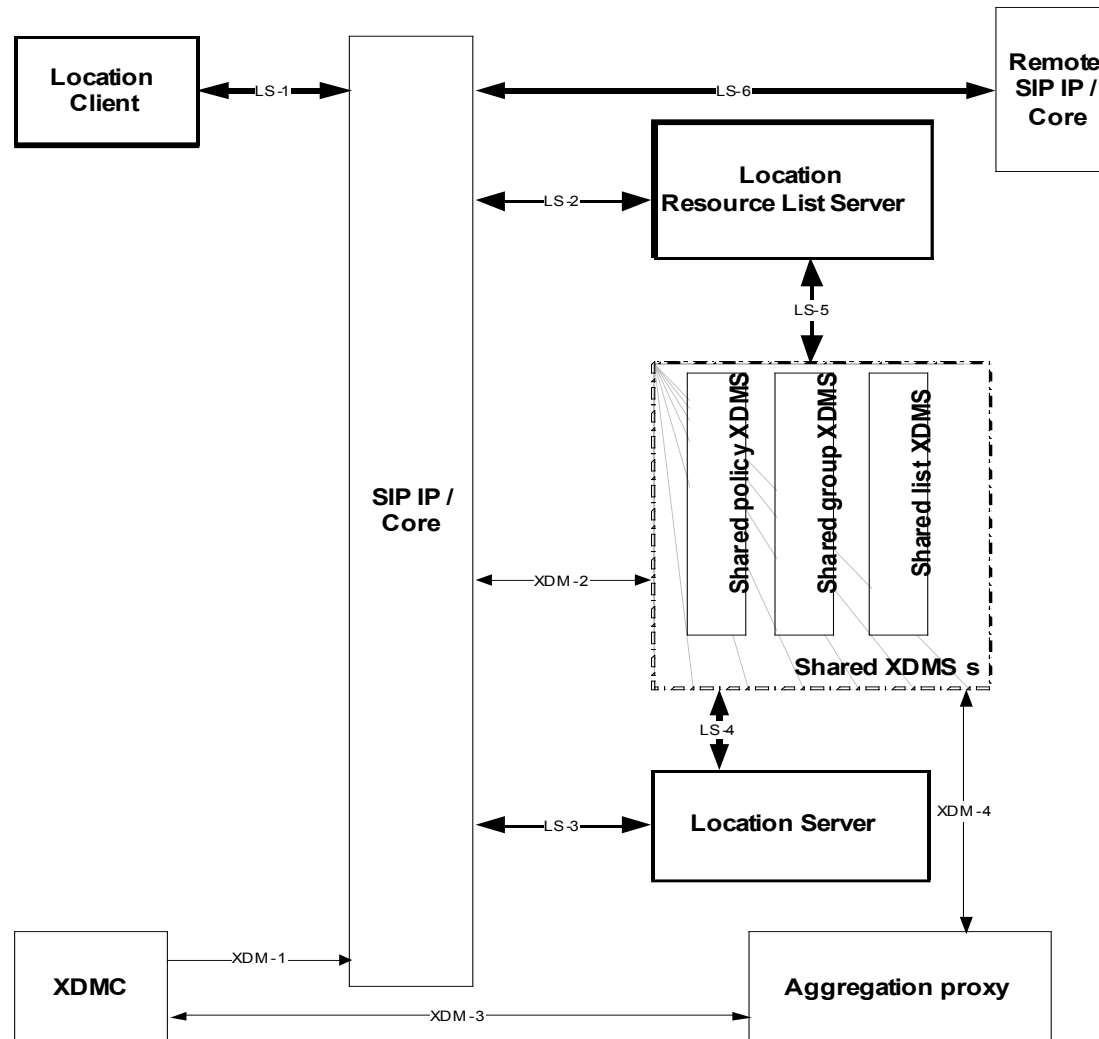
LOCSIP Location Client in an AS



LOCSIP Location Client in UE



LOCSIP v1.0 Architecture (CR draft - not final)



Emergency Services Requirement (draft)



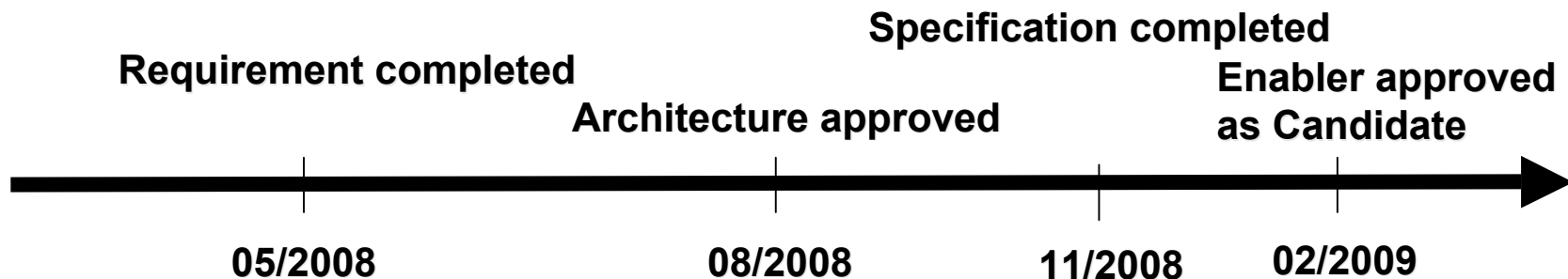
- » LOCSIP SHALL support Emergency Services location requests where applicable by local regulatory requirements.
- » It SHALL be possible to have Emergency Services location requests take a higher priority than Commercial Services requests.
- » LOCSIP SHALL support mutual authentication for the Location Client and Location Server.
- » LOCSIP SHALL only allow authorized Location Clients to access the service.
- » LOCSIP MUST support data confidentiality that ensures that information is not made available or disclosed to unauthorised individuals, entities, or processes.

Proposed Timeline



- » LOCSIP 1.0 enabler package is planned to be approved as Candidate by Feb. 2009.
 - » SIP-based OMA enablers use the services of an underlying SIP/IP core infrastructure, e.g. IMS.
 - » It reuses as much as possible from IETF deliverables (e.g. RFC-4119 PIDF-LO).

- » The new enablers, still in their very beginning, should contribute to enhance emergency services.



LOCSIP Reuse of IETF Efforts



- » LOCSIP RD requirements call for reuse of IETF GEOPRIV RFC 4119.
 - » Normative Reference: “Presence-based GEOPRIV Location Object Format”, J. Peterson, Dec. 2005, RFC 4119, (<http://www.ietf.org/rfc/rfc4119.txt>)
 - » HFR-11 LOCSIP SHALL support location information in a format compliant to RFC 4119 [RFC4119] or its successor.

Future Work-IETF Activities Potentially Relating to LOCSIP (1)

- » **IETF has updated RFC 4119 with RFC 5139**
 - » “Revised Civic Location Format for Presence Information Data Format Location Object (PIDF-LO),” M. Thomson, J. Winterbottom, Feb. 2008, RFC 5139, (<http://www.ietf.org/rfc/rfc5139.txt>)

- » **IETF has an Internet Draft related to RFC 4119 and RFC 5139**
 - » “GEOPRIV PIDF-LO Usage Clarification, Considerations and Recommendations,” J. Winterbottom, et al, Feb. 2008, (<http://www.ietf.org/internet-drafts/draft-ietf-geopriv-pdif-lo-profile-11.txt>)

- » **LOCSIP may benefit from knowledge of other IETF Activities**
 - » “GEOPRIV Layer 7 Location Configuration Protocol; Problem Statement and Requirements,” H. Tschofenig, H. Schulzrinne, Mar. 2008, (<http://www.ietf.org/internet-drafts/draft-ietf-geopriv-l7-lcp-ps-07.txt>)
 - » “Requirements for a Location-by-Reference Mechanism,” R. Marshall, Feb. 2008, (<http://www.ietf.org/internet-drafts/draft-ietf-geopriv-lbyr-requirements-02.txt>)
 - » “Geolocation Policy: A Document Format for Expressing Privacy Preferences for Location Information,” H. Schulzrinne, et al, Mar. 2008, (<http://www.ietf.org/internet-drafts/draft-ietf-geopriv-policy-15.txt>)

Other IETF Activities Potentially Relating to LOCSIP (3)



- » **LOCSIP may benefit from knowledge of other IETF Activities.**
 - » “GEOPRIV Layer 7 Location Configuration Protocol; Problem Statement and Requirements,” H. Tschofenig, H. Schulzrinne, Mar. 2008, (<http://www.ietf.org/internet-drafts/draft-ietf-geopriv-l7-lcp-ps-07.txt>)
 - » “Requirements for a Location-by-Reference Mechanism,” R. Marshall, Feb. 2008, (<http://www.ietf.org/internet-drafts/draft-ietf-geopriv-lbyr-requirements-02.txt>)
 - » “Geolocation Policy: A Document Format for Expressing Privacy Preferences for Location Information,” H. Schulzrinne, et al, Mar. 2008, (<http://www.ietf.org/internet-drafts/draft-ietf-geopriv-policy-15.txt>)

Thank you