

# **GEOPRIV**

## **IETF-69 Meeting**

### **Chicago, July 2007**

**HTTP Enabled Location Delivery (HELD)**  
**draft-ietf-geopriv-http-location-delivery-01.txt**

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# HELD: version -00

- 1) Made the terminology section longer, clarifying terms as some differ from RFC 3693 and adding one for LCS. (Note: I've pinged Henning and Hannes for feedback on this definition and not heard anything back).
- 2) Editorial changes for scope and condensing overview.
- 3) Removed references to the nitty gritty of how the LG and LS generate and maintain the LI, just referencing LCS functionality.
- 4) Removed the explicit policy stuff from the protocol.
- 5) Changes in section 4 and later included changes consistent with defining HELD to just be between an LCS (whose definition has been added) and the Device.
- 6) Removed the references to the HELD extension documents and the NENA requirements mapping in the Appendix.
- 7) Added a section to address discovery of the LCS.

# HELD: version -00

## 8) Removed some of the more advanced concepts:

- Context
  - Thus, removed all context related messages (createContext, contextReponse, contextUpdate)
  - To accommodate returning locationURIs, the responses changed such that rather than just getting a PIDF-LO location requests, there is now a general response that also can include a Location URI
- Location signing
  - As a result, added “options” element to support this in the future
- Device assertion of location

## 9) Changed “Duration Type” to just seconds

# HELD: changes since version -00

- 1. HeldResponse renamed to locationResponse.**
- 2. Changed namespace references for the PIDF-LO geoShape in the schema to match the agreed GML PIDF-LO Geometry Shape Application Schema.**
- 3. Removed "options" element - leaving optionality/ extensibility to XML mechanisms.**
- 4. Changed error codes to be enumerations and not redefinitions of HTTP response codes.**
- 5. Updated schema/examples for the above and removed some remnants of the context element.**

# HELD: changes since version -00

- 6.** Clarified the definition of "Location Information (LI)" to include a reference to the location (to match the XML schema and provide consistency of usage throughout the document). Added an additional statement in section 7.2 (locationType) to clarify that LCS MAY also return a Location URI.
- 7.** Modified the definition of "Location Configuration Server (LCS)" to be consistent with the current definition in the requirements document.
- 8.** Updated Location Response (section 6.3) to remove reference to context and discuss the use of a local identifier or unlinked pseudonym in providing privacy/security.
- 9.** Clarified that the source IP address in the request is used as the identifier for the target/device for the HELD protocol as defined in the document.
- 10.** Miscellaneous editorial clarifications.

# HELD: issues/discussion

- 1. Terminology**
- 2. Response Time**
- 3. Location types indicated in Location Response**
- 4. Server Redirects**
- 5. HELD URI-type**
- 6. Definition for locationType**

# HELD Issue: Terminology

- **Currently, duplicate terms defined in HELD.**
  - Suggest to remove those that are entirely redundant (i.e, defined elsewhere).
  - Other conflicts can be resolved by defining a new term (e.g., Access Network can replace Access Provider and Access Network Provider)
- **Conclusion: remove duplicate definitions, define new terms where current terms don't match original definitions and move terms as appropriate to L7 LCP requirements (e.g., LCS).**

# HELD Issue: Response Time

- **Currently defined such that application is recommended to wait “x” seconds for a response. If no response, then request is deemed to have failed.**
- **Suggestion that this is not useful and that for longer waits, separate notifications (rather than waits) would be required.**
- **Compromise proposal suggested whereby: responseTime is optional and if none provided (zero is default), then the response time indicates the “fastest location available” option.**
- **Conclusion: Accept compromise solution.**

# HELD Issue: Location Types in Location Response

- **Currently, LCS returns types available if “exact” not specified.**
  - In the case where all the requested types are not returned, how does the device know what types have been returned?
- **Proposal to add fields indicating <returned> and <not-returned>.**
- **Suggestion that this isn't necessary since the target knows what types it requested.**
- **However, telling the endpoint alone doesn't help any subsequent recipient of that LI.**
- **Conclusion: Client needs to interpret fields. Thus, don't need to add these new fields, as they don't really help.**

# HELD Issue: Server Redirects

- **Suggestion to add the limitation that cannot redirect outside the domain, due to security issues.**
- **Response was that redirects are part of normal HTTP functionality and don't introduce new security issues.**
- **Conclusion: no changes needed**

# HELD Issue: HELD URI Type

- **Proposal to register a HELD specific URI type.**
- **Discussion was that it wasn't necessary.**
- **Conclusion: no changes needed**

# HELD Issue: Definition of locationType

- **Proposal that rather than having locationURI as one of the locationTypes, define a flag (e.g. locationReference)**
- **Pros:**
  - ?
- **Cons:**
  - More complex logic with the use of “any” :
    - Does “any” with a “false” for “Lbyr” mean that a locationURI must not be returned OR is flag ignored when “any” requested?)
- **Conclusion: keep the current definition**

# Way Forward – HELD

- **Update document:**
  - Editorial changes
  - Ensure XML consistency
  - Issue resolution per conclusions.
- **Note: dependencies on**
  - [draft-thomson-geopriv-lis-discovery](#)
  - [draft-marshall-geopriv-lbyr-requirements-01](#)