HELD Extensions: Identity, Measurements and Contexts

IETF-72 GEOPRIV

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How a LIS works

- A LIS first identifies the Target/Device
- Then it collects location-related measurements for the Target
- It then determines location
Location-related Measurements

- **draft-thomson-geopriv-held-measurements**
- The information that the LIS needs to determine location information
  - E.g. Switch/port attachment (LLDP, DHCP RAIO), cell ID, WLAN/WiMAX BS, GNSS, DSL circuit
- Measurements can be observed by the LIS (not our concern) or the Target
  - A framework for reporting measurements
  - And a basic set of common measurements
Location-related Measurements

• Measurements need to be added to the LCP
  – DHCP has RFC 3046, which is enough
• There are several deployments that will need this work standardized
  – UK ES, WiMAX Forum
Held Contexts

- draft-winterbottom-geopriv-held-context
- Provides a means of creating and controlling a location reference
- This draft enables compliance with the requirements in geopriv-lbyr-requirements
- Open issue on how to provide some of the context creation controls using policy
HELD Context Issue

• In the interim it was decided to use policy to provide the three controls:
  – Snapshot, limited use and location type
• Location type is easy
• We need input/ideas on how to do the others
  – It’s not that straightforward
Identifying the Target

• [draft-winterbottom-geopriv-held-identity-extensions](#)
• HELD uses source IP by default
• Source IP doesn’t work for all cases:
  – l7-lcp-ps requirement 1 states that the device be able to provide identification information
  – Requirement 4 describes the layer2-layer3 exchange of this information