

# HELD Extensions: Identity, Measurements and Contexts

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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:
  - I7-lcp-ps requirement 1 states that the device be able to provide identification information
  - Requirement 4 describes the layer2-layer3 exchange of this information