pidf-lo extensions for location determination capabilities

draft-hdesinen-geopriv-pidflo-extn-00.txt

PIDF-LO Extension

- Adds one new field with two elements

- lets clients inform servers of supported position determination methods (e.g, AGPS) and signaling (e.g., 3gpp control plane)

- Field *not* intended to be transmitted to location recipients

Purpose

- Server in path of emergency call can know client's capabilities

- Server can save time in knowing immediately which signaling to use to get better location

- Server avoids having to do lookup or try alternate methods

New PIDF-LO Field

- device-loc-capabilities
  - location-method
    - Which location methods are supported (e.g., AGPS)
    - Same IANA registry
  - location-method
    - Which signaling (e.g., 3gpp control plane)
    - New IANA registry
    - Name and oldest version supported by that name
    - Name and version combined in string name

Location Methods

- OMA_SUPL_1.0 (SUPL 1.0)

- OMA_SUPL_2.0 (SUPL 2.0)

- 3GPP_CP_GSM_1.0 (3GPP Control Plane for GSM starting with R98).

- 3GPP_CP_GPRS_1.0 (3GPP Control Plane for GPRS starting with Rel-5).

- 3GPP_CP_UMTS_1.0 (3GPP Control Plane for UMTS starting with R99).

- 3GPP2_CP_Rev0 (3GPP2 Control Plane Revision 0).

- 3GPP2_UP_X.S0024_Rev0 (3GPP2 User Plane X.S0024 Revision 0).

- 3GPP2_UP_V1_V2 (3GPP2 User Plane V1/V2).