draft-polk-geopriv-include-exclude-filters-00

IETF74 – San Francisco

James Polk

The Scope

- This doc consolidates a set of Subscription filters for Location Retrieval

- Specifies how to ask for Location in a certain way, rather than just take what's given in response and have to be happy with what you get.

- Why this?
  – Although Subscription Filters were created in RFC 4661, the specifics for asking for location, or which location format or location elements remains undefined
  – Brian's location-filters doc is all about "compelling events" (i.e., movements), which just asking for location is not

Filters in scope for this ID

- For Civic format only

- For Geo format only
  - A point
  - A circle
  - A polygon (perhaps with a centerpoint)
  - In 2D and 3D
    - Is this an LR only issue?
  - (Other shapes?)

- Combination format
  - Some parts in geo, some in civic

- For any format

How is this accomplished?

- Using the
  - <include type="xpath">

  and

  - <exclude type="xpath">

Example of Civic only

```
<?xml version="1.0" encoding="UTF-8"?>
 <filter-set xmlns="urn:ietf:params:xml:ns:simple-filter">
   <ns-bindings>
     <ns-binding prefix="pidf" urn="urn:ietf:params:xml:ns:pidf"/>
     <ns-binding prefix="rpid" urn="urn:ietf:params:xml:ns:pidf:rpid"/>
     <ns-binding prefix="gp"
                 urn="urn:ietf:params:xml:ns:pidf:geopriv10"/>
     <ns-binding prefix="cl"
                 urn="urn:ietf:params:xml:ns:pidf:geopriv10:civilLoc"/>
     <ns-binding prefix="gml"
                 urn="urn:ietf:params:xml:ns:pidf:geopriv10:gml"/>
   </ns-bindings>
   <filter id="123" uri="sip:presentity@example.com">
     <what>
       <include type="xpath">
         /pidf:presence/pidf:tuple/pidf:status/gp:geopriv/gp:location-info/c1:civilAddress
       </include>
       <exclude type="xpath">
         /pidf:presence/pidf:tuple/pidf:status/gp:geopriv/gp:location-info/gml:location
       </exclude>
     </what>
   </filter>
 </filter-set>
```

Open Issues

- ID far from done

- Bringing on Martin Thomson as co-author

- Adam Roach believes this may be an extension to RFC 4661, but Martin does not believe that yet
  - We'll get with Adam as this effort evolves

- We may split extensions part into separate doc(s) or into Filters doc (if that doc changes its expectations)
  - Which Brian seems open to (as of Tuesday)