

self-published (IP) geofeeds

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ietf://geopriv:88/

Overview

- Response to real world scenarios
 - network operators wanting to publish geo data for rapid updates
 - technical conferences which reuse the same block in different meeting locations
- Ideally faster than waiting for
 - passive discovery
 - deployment of updates from geolocation providers

Concept

- Extremely simple
 - publish a list of prefix and locality attributes
 - as accurate as the publisher needs to describe infrastructural addressing plan—not user-identifying
 - essentially “prefix x/y is my San Jose CMTS”
 - prefixes w/o locality data are requests to “clear” existing data
 - could theoretically accommodate other "network attributes"

Format

- UTF-8, CSV-style text format
 - `ip_prefix, country, region, city, postal_code`
 - All fields except `ip_prefix` are optional
- Each line consists of:
 - CIDR prefix
 - ISO 3166.1 alpha 2 two letter country identifier
 - ISO 3166.2 region identifier
 - freeform city string, postal code

Examples

- <https://meetings.ripe.net/geo/google.csv>
 - 193.0.24.0/21, GR, GR-I, Athens, 117 45
2001:67c:64::/48, GR, GR-I, Athens, 117 45
- <https://registration.icann.org/geo/google.csv>
 - 199.91.192.0/21, US, US-CA, Los Angeles,
2620:f:8000::/48, US, US-CA, Los Angeles,

Relation to geopriv

- Quoting 3693#section-5.1

Excluded from this definition is the determination of location information wholly without the knowledge or consent of the Target (or the Target's network or access service provider), based on generally available information such as an IP or e-mail address. In some cases, information like IP address can enable someone to estimate (at least roughly) a location. Commercial services exist that provide rough location information based on IP addresses. Currently, this type of location information is typically less precise than the type of location information addressed in this document. Although this type of location computation still raises significant potential privacy and public privacy concerns, such scenarios are generally outside the scope of this document.

But seriously...

- In 6280 parlance
 - network-based positioning system (#4.1.1)
 - locations of service regions of operator's prefixes
 - primarily infrastructural (CMTS, GGSN, [SP]GW)
 - exclude operator-routed customer prefixes
 - never user locations
 - operator is RM, LG, and its web server is the LS
 - authorization/access control implemented in the LS (e.g. via HTTP)

And now for some XML

- vis. 5139

```
<civicAddress>
  <country>country</country>
  <A1>region</A1>
  <A2>city</A2>
  <PC>postal_code</PC>
</civicAddress>
```

- vis. 6772#6.5.1

```
<ruleset>
  <rule>
    <conditions/>
    <actions/>
    <transformations>
      <provide-location
        profile="civic-transformation">
        <provide-civic>building</provide-civic>
      </provide-location>
    </transformations>
  </rule>
</ruleset>
```


From here?

- Need to incorporate lots of outstanding private feedback from geopriv members
- Want to have something that addresses concerns yet operationally useful
- Might this be of interest to geopriv?
 - Any operators present who might be interested?

thanks

tools.ietf.org/html/draft-google-self-published-geofeeds