

Similar Location Extension to LoST

<http://tools.ietf.org/html/draft-marshall-ecrit-similar-location-00>

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Status

- Currently, within a LoST validation for location, a set of location elements is input, but if not found, LoST provides nothing more than “invalid”
- This draft proposes to extend LoST in order that a LoST server - one that knows it has a similar location to what was input - can return one (or more) comparative sets of location elements
- Used commonly among civic location applications given a “Address not found, *did you mean:?*”
- Simple ca: set of elements (rather than PIDF-LO)

Provides Quality Feedback Mechanism

6000 15th Ave
Seattle, WA

...

**6000 15TH AVE NW
Seattle, WA 98107**

findServiceRequest

w/ validateLocation=true

findServiceResponse

One (or more) similar
civic location sets returned,
“No match found, did you mean”?

...

!– similar address #1

!– similar address #2

...



LoST
Server

LoST Validation Input

```
<findService xmlns="urn:ietf:params:xml:ns:lost1"
  validateLocation="true">
  <location id="587cd3880" profile="civic">
    <civicAddress
      xmlns="urn:ietf:params:mxl:ns:pidf:geopriv10:civicAddr">
      <country>US</country>
      <A1>WA</A1>
      <A3>Seattle</A3>
      <A6>15th Ave</A6>
      <HNO>6000</HNO>
    </civicAddress>
  </location>
  <service>urn:service:sos</service>
</findService>
```

LoST Providing Similar Location Output

...

<locationValidation

xmlns:ca="urn:ietf:params:xml:ns:pidf:geopriv10:civicAddr">

<valid>ca:country ca:A1 ca:A3</valid>

<invalid>ca:A6</invalid>

<unchecked>ca:HNO</unchecked>

<ca:civicAddress> <!-- "similar" address #1 -->

<ca:country>US</ca:country>

<ca:A1>**WA**</ca:A1>

<ca:A3>**SEATTLE**</ca:A3>

<ca:RD>**15TH**</ca:RD>

<ca:STS>**AVE**</ca:STS>

!– breaks out “AVE” into it’s appropriate street suffix

element

<ca:POD>**NW**</ca:POD>

!– finds match w/“**NW**” **post directional**

<ca:HNO>**6000**</ca:HNO>

<ca:PC>**98107**</ca:PC>

!– can add other expected information

<ca:PCN>**SEATTLE**</ca:PCN>

!– additional supplemental info, such as Postal Code Name

</ca:civicAddress>

...

Next Steps?

- More examples would be good...
- Extend to geo inputs (for syntax)
- Parameter value considered for maximum number of similar locations returned
- Needed as an ECRIT work group item
 - NENA 08-003 specifies similar functionality