Similar Location Extension to LoST

http://tools.ietf.org/html/draft-marshall-ecrit-similar-location-01

Document Authors:
Roger Marshall, Jeff Martin, Brian Rosen

IETF81 – Quebec City
7/25/2011

Status

- Version -01 is a merging of similar-00 and returned-li-00
- The LoST validation mechanism currently only returns /valid, /invalid, or /unchecked qualifiers based on discrete civic address elements that are input
- This draft extends LoST for two use cases:
  - *Valid Address case: A "complete" set of civic address elements are returned when result is valid – based on what the LoST server has provisioned*
  - *Invalid Address case: One or more "similar" set(s) of civic address elements are returned, based on the data that the LoST has loaded*
- 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

<A3>Seattle</A3>
<RD>15th</RD>
<STS>Ave</STS>
<POD>NW</POD>
<HNO>6000</HNO>

…

findServiceRequest

w/ validateLocation=true

LoST Server

findServiceResponse "valid"

<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>
<ca:POD>NW</ca:POD>
<ca:HNO>6000</ca:HNO>
<ca:PC>98106</ca:PC>
<ca:PCN>SEATTLE</ca:PCN>

A complete civic location set gets returned based on data the LoST server has.

…
!– complete address
…

Provides Quality Feedback Mechanism

<country>US</country> <A1>WA</
A1>
<A3>Seattle</A3>
<RD>15th Ave</RD>
<HNO>6000</HNO>
…

#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>
<ca:POD>NW</ca:POD>
<ca:HNO>6000</ca:HNO>
<ca:PC>98106</ca:PC>
<ca:PCN>SEATTLE</ca:PCN>

#2
<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>
<ca:POD>NE</ca:POD>
<ca:HNO>6000</ca:HNO>
<ca:PC>98105</ca:PC>
<ca:PCN>SEATTLE</ca:PCN>

findServiceRequest

w/ validateLocation=true

findServiceResponse "invalid"

LoST Server

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

…
!– similar address #1
!– similar address #2
…

Next Steps?

- Clean up, based on NENA comments so far:
  - <A6> replaced by <RD>
  - Remove <mapping></mapping> from similar result
- More examples to be provided
- Number of similar locations returned not defined
- Fix-up RelaxNG schema
- Needed as an ECRIT work group item
  - NENA 08-003 specifies like functionality