Service Coverage Scope for Service URN

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Why a Service Coverage Scope?

- Different Service Providers may provide the same service at the same location
- You can distinguish between them by looking at the coverage area over which they provide their service
- For example, for a given area both sheriff and state police can be called upon in the case of an emergency
  - Sheriff provides service over the area of the county while state police provides their service for the whole state
- How does one specify this in a Service URN?

Service Coverage Scope

- Documented in draft-mongrain-ecrit-service-coverage-scope-urn-00.txt
- The Service Coverage Scope is appended to the Service URN and specifies over which area the SP must provide their service
- It is one of the following:

Service Area Scope	Coverage Area
country	Entire country
A1	National subdivision (state, region, province, prefecture)
A2	County, parish, gun (JP), district (IN)
A3	City, township, shi (JP)
A4	City division, borough, city district, ward, chou (JP)
A5	Neighborhood, block

Service Coverage Scope

- Why not "urn:service:sos.police.state"?
  - Because not every country is divided into states. Canada has provinces, Japan has prefectures, etc.
  - RFC4119 solved this terminology issue by utilizing A1..A5
- "urn:service:sos.police.A1" therefore specifies provincial police in Canada, prefecture police in Japan and state police in the USA

Service Coverage Scope

- Usage:
  - Optional
  - SHALL be the last element of a Service URN
  - SHALL NOT be more than one Service Coverage Scope specified in a Service URN
  - In order to be applicable, the SP SHALL provide its service over the entire coverage area
    - Whoville Fire Department cannot be contacted using "urn:service:sos.fire.A2" as it does not provide fire prevention services over the entire county the city of Whoville belongs to

Service Coverage Scope

- Impact:
  - LoST service implementations do not need to be modified to support Service Coverage Scope
    - It is just like any other Service URN
    - Care must be given to ensure that the SP provisioned does indeed provide the service over the entire designated coverage area
  - If a LoST server does not recognize a Service URN (including a Service URN containing a Service Coverage Scope) it should return the "next best thing" and unroll the Service URN

Not Only for Emergency Services

- Can be used to find a local neighborhood pizza joint:
  - urn:service:restaurant.pizza.A5
- Or on the other hand to find a national chain:
  - urn:service:restaurant.pizza.country

Political Considerations

- Let's avoid having a political debate
  - That is should only urn:service:sos or urn:service:sos.police be used for emergencies?
- State and Provincial Police can be directly called today for emergencies in North America
  - For a list of all 50 states see http://www.kansashighwaypatrol.org/about/state_contact.html
- Let's solve the technical issue of how to do this in a Next Generation environment
  - If a jurisdiction does not want to do it, they do not provision it

IANA Considerations

- Current draft is mute on this subject
- We should avoid adding every permutation of registered Service URN with Coverage Area Scope to the registry
- It should be sufficient to say that any Service URN can be appended with a Coverage Area Scope

Future Considerations

- How about a SP that provides their service internationally?
  - Should we add a .international Service Coverage scope?
  - While not necessarily applicable to emergencies (no one calls Interpol directly to report them) would be useful for other types of services
- At the other end, should we have .A6 (street level)?
  - Too fine of a granularity?

How About It?

- Do we want to accept this draft as a working group item?

Thank You

- And thank you Brian...