Discovery issues in atoca

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We need to handle several cases

- Some alerts are broadcast via some access network specific mechanism (multicast, cell broadcast, …)
  - These go to all devices that are connected or "subscribed"
  - Device may filter (opt out)
  - Need to get source & authentication data
- We have requirements for other cases:
  - Opt in
  - Non local location (location of my children)
  - Need to know who to subscribe to (and get source & authentication info)

What is the "right" server?

- At the high level it's "sends the alerts I want/have to get
  - In many cases, this implies "server for my location"
    - Which needs the opt out
    - Usually don't need to send location to find it
- But have to handle the case of "server for someone else's location"
  - Which is the opt-in
  - Need to send location

What is the information we need to discover?

- Identity and/or contact information
- Server and/or source(s)
- IP address
- Domain name
- URI (e.g., SIP URI)
- Public key(s) of source(s)

Discovery Mechanisms

- Local Broadcast server discovery is LOCAL. L2 mechanism is likely preferred (DHCP or similar), like LIS/LoST discovery

- Opt in, non local server discovery is location sensitive, needs something like LoST

- If it's not location sensitive, either there is a well known server (pass along a URI), or we're discovering based on alert typing (something along the lines of LDAP)