

SIP for Emergency Services

Henning Schulzrinne
Dept. of Computer Science
Columbia University
New York, New York
schulzrinne@cs.columbia.edu

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Issues

Need emergency access for all-IP environments – tel:911 is not a solution (and may have unintended side effects. . .)

- emergency address (network, application)
- find PSAP
- obtain caller civil/geo address

Will focus on SIP layer issues

Emergency Address

- similar to `postmaster`, `webmaster`, etc.
- can have several, e.g., `911`, `110` (Europe), `help`, ...

Find PSAP

- outbound proxy
 - works iff outbound proxy is geographically bounded
 - hard-configured
 - use DNS, e.g., `pittsburgh.pa.911.arpa`
- SLP - but scope not likely to coincide with ESR
- central server (250,000/day)

Obtain Caller Identity and Location

- minimize prank calls
- GPS is not sufficient (doesn't work in buildings, altitude)
- solutions classes:

- caller provides in request

```
GPOs: 42 21 54 N 71 06 18 W -24m 30m
```

```
GL: S3.US.45420.1910 "1425 Arbor Avenue, Dayton OH"
```

- PSAP queries caller (see 'spatial' BOF)
 - PSAP queries third party based on caller identity

