

French PSAP solution for victim's location

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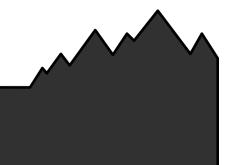


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genesis



- 2002: European directive for the Public Safety access to the Caller location;
- Phone company's response to the French law transcription, poor and delayed;
- Several initiatives using phone apps, tested in rural and mountain situations, but applied to a restricted public;
- Large extension of smartphone equipment in the population.

The main problems



- Solutions based on a pre-loaded smartphone application
 - concerning a restricted population;
 - Several development, no standard;
 - Need a inscription to every websites.
- Emergency call center's national location platform
 - Poor quality of location : range in Km around the cellular radio site



Mains steps identification

- Cellular GPS equipment generalization
 > 62 % for the whole population
 > 82 % for active population sample
- Phone company network upgrade is needed to provide precise location : "it will take time"
- Good cell cover in most of French landscape
- Html 5 functions *getCurrentPosition()*
- Growing of cellular owners with GPS and data option

The concept



- Use the cellular browser self-location function
- A html 5 based Website on the net
- The site's ULR sent to the caller by SMS
- The smartphone owner has to open the URL received
- The website ask the browser to access to the smartphone location (GPS or WIFI)
- The user also has to formally allow the location transmission

Benefits / limitations



Benefits

- Very precise location : 5 m
- Caller allowed (legal)
- Quick < 120 s
- Durable location settable: movement : from or to guidable
- Hours of search limited to a few minutes for helicopter's rescue teams

Limitations

- Smartphone with GPS and data access needed
- Distortion inside structure (up to 900 m)
- GPS enabling (ability) : User dependent
- Speed depending of local data access GPRS to 4G

Scenario



- PSAP call reception
- Phone Cell number recognition
- SMS sent to the caller phone number including an URL & a singular reference
- By activating the website url, gsm and geoloc
 PHP based webapp linked
- When allowed, smartphone GPS location sent back to the webapp...



• Film

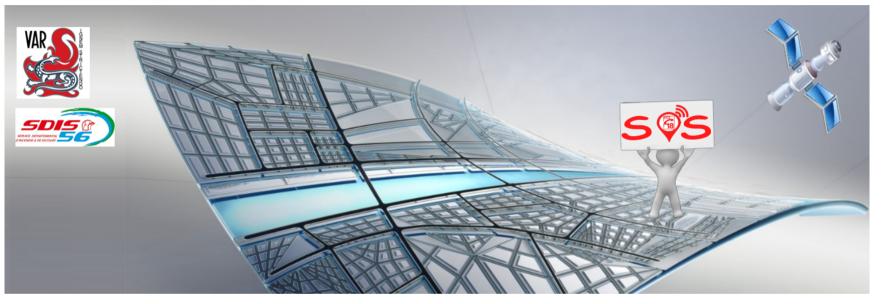


Dessin René Dosne / SPF Mag (édition n° 1086)

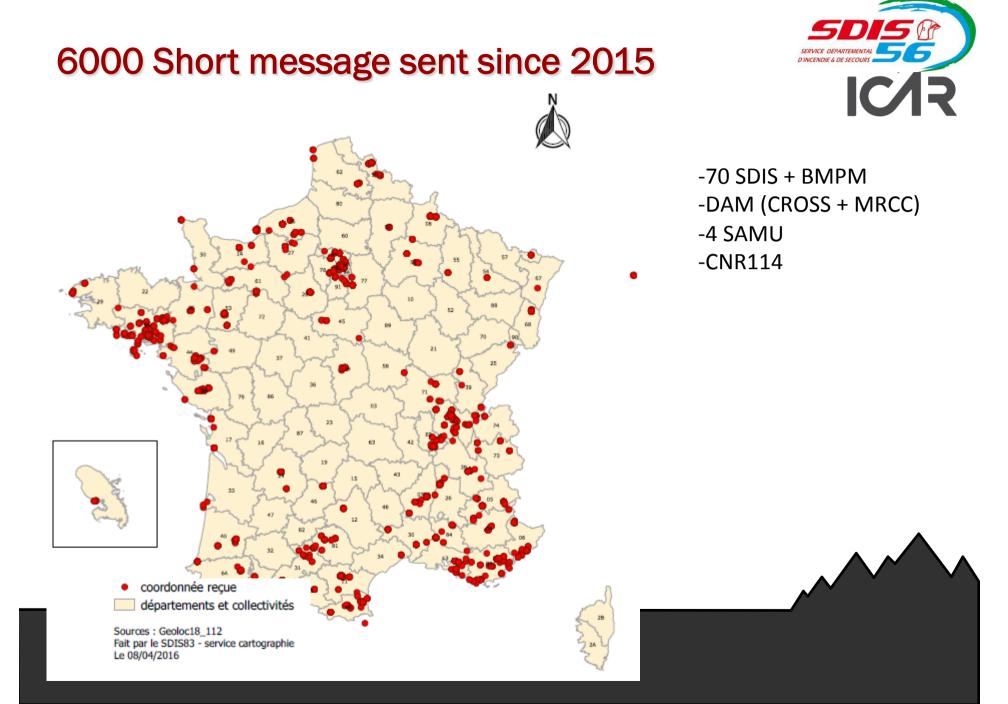


Contacts





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Future improvement



- PSAP Software integration by Soft providers
 - Existing GIS interface for mixing Caller and existing rescues teams following...
- UK Google development on Android Operating system : an automatic SMS send when emergency number is composed
- GenLoc and Geoloc18_112 Hackatlon participation

