

INTEROPERABILITY IN RESCUE **SERVICES**

A system to allow cooperation between rescuers

(CAP) is a simple and general format (XML-based data format) for US Department of Homeland Security, the National Weather Service and the Federal Communications Commission. It is a public alert system designed for events, earthquakes, tsunami, volcanoes, public health, power outages, etc.) and for "all-

Private companies such as Google worldwide.

The Common Alerting Protocol media" (addressing com- and MS are aggregators of the CAP munications media such as sirens, system. Regarding the UN system, cell phones, faxes, radio, television, the International Telecomemergency alerting and public and various other digital munication Union (ITU) has warning. CAP is being developed by communication networks including adopted in 2007 the Common the Internet) through common Alerting Protocol as an OASIS1 standards on category of hazard, standard through its alert level, etc., It has been Recommendation X.1303. The adopted by Canada and Italy and is standard CAP format has been being implemented by other promoted by both WMO and ITU to "all-hazards" (addressing weather countries such as Australia, and other UN bodies concerned by South Africa, all of them for their disaster and emergency Public Alert and Warning System. management and to the public

Some hints

The Corpo Nazionale dei Vigili del is simple and well spread users: a scenario of distribution REACT. CAP was selected because it gated asymmetrically by many made available by the other ones.

Fuoco has adopted the protocols worldwide. RSS and Atom Feed are

"many-to-many" similar to the CAP and Atom Feed in the frame- widely used to publish news on the emergency, where operative work of the European R&D project web which will after been aggre- centres publish and access to data

Three scenarios

Multiple road accident: when a road accident has occurred on a motorway, it may happen that curious drivers cause another accident nearby. Citizens calling accidents happened. emergency numbers are often unaware of the situation and report info concerning one or the other accident with not clearly distinguishable details. If insufficient info is available, the Control Centre operators risk to assess the situation as a one-accident event and to send rescuers to only one of the two actual accidents. Data exchange between Control Centres makes it possible to merge all the info

received and visualize then on a map as "points cloud", thus uncorrelated facts. increasing the probability to understand that two different Micro floods: during severe weather

people release toxic fumes in air, rescuers obtain a fragmented picture: calls reporting "strange rescuers. Through the data smells" are received by firemen, possibly also by the Environmental Protection Agency, while Ambulance services can cooperate in collecting operators are more frequently and forwarding calls to the right called for breathing problems. Data recipient with the correct priority. exchange between Control Centres allows finding the common factor

between diverse and apparently

events, calls from affected citizens may saturate the capacity of the Toxic cloud: whenever malicious infrastructure of dedicated emergency numbers, thus risking to "hide" high risk situations to the exchange, the Public Safety Answering Points of several rescue