Emergency Support System – ESS

FP7-SEC-2007-01:Network Enabled command and control systems: Integrated Project 217951

The Emergency Support System (ESS) is a platform integrating data-centric technologies which support the creation of actionable information and its availability to Incident Commanders during abnormal events.

Crisis management depends greatly on the prompt collection of data from the incident field and efficient flow of information between the actors involved in the response and emergency operations during the crisis.

The aim of ESS is to support the fusion of diverse forms of field-data with spatial data bases and relevant risk assessment modules in a transparent way for the users. Thus the main objective is to develop an IT platform that will integrate interoperable systems and components for creating intelligent information, suitable for supporting decision making at the tactical and operational command level.

A number of data collection technologies are included in the prototype design of the ESS system. These concern the in-situ collection of environmental data, information on toxic materials, field monitoring from air and ground platforms, audio-video and image analysis and transmission, monitoring of the activity and performance of mobile resources (fire trucks, ambulances etc), people presence and distribution in the incident area, traffic monitoring and control etc.

ESS shall implement a web-based gateway for accessing distributed data sources, managing the information flow among C&C components and developing a fusion mechanism for upgrading field data to intelligence.

Three Table Top Exercises were organized during 2009 in Greece, France and Israel with the purpose of interacting with potential users and defining the operational needs and the technological requirements of emergency and crisis managers that are relevant with the ESS platform.

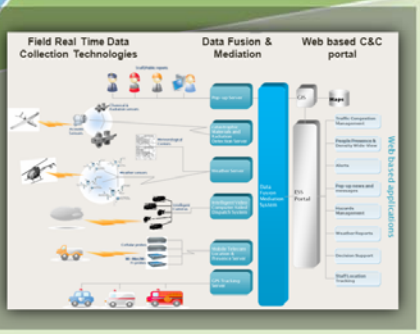
A field exercise for evaluating the system components and testing the context of integrating them into a common ESS platform is planned for April 2010 in Germany.

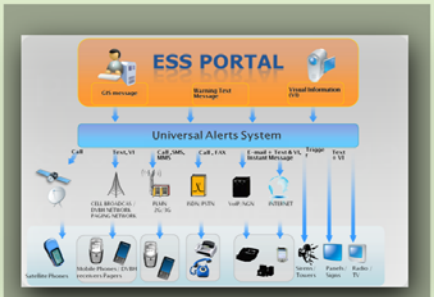
The prototype of the system will be field-tested, demonstrated and validated against three test cases:

- a forest fire following an airplane crash near the French-Italian border,
- an abnormal event in a Stadium in a city in South France and
- an emergency on contamination from toxic substance in Tuscany in Italy.

Two workshops are planned for presenting the ESS platform (2011) and the results of its application into the three aforementioned test cases of crisis management (2013).

Ask for details: info@ess-project.eu





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2nd straw Workshop, March 9th 2010, Madrid (SP)