

Interoperability Profiles for Command/Control Systems and Sensor Systems in Emergency Management

PROJECT DESCRIPTION

- Effective management of emergencies, crises and disasters depends on timely available, reliable and intelligible information.
- To achieve this, different Command and Control (C2) Systems and Sensor Systems have to cooperate which would only be possible through interoperability. However, unless standards and well-defined specifications are used, the interoperability of these systems can be very complex.

OBJECTIVES

- To develop a profile based Emergency Interoperability Framework by the use of existing standards and semantically enriched Web services to expose the functionalities of C2 Systems, Sensor Systems and other emergency/crisis management systems.
- To define a pilot application and to validate it on a flood scenario in Italy

SCIENTIFIC CHALLENGES

- Profiling approach for Interoperability, Services Oriented Architecture, Semantic Web Technologies

PARTNERS

SAGEM (FR)	Coordinator Data/Object model interoperability
LUTECH (IT)	Protocol interoperability Software integration
AIT (AT)	Knowledge interoperability Specifications Standardization activities
SRDC (TR)	Information interoperability Profiles integration Certification and testing mechanisms
REGIONE PUGLIA (IT)	Pilot app, requirements and validation
INNOVA PUGLIA (IT)	Pilot app, design and deployment
PIAP (PL)	Organizational and physical interoperability
REGOLA (IT)	Harmonized doctrines - Validation

APPLICATIONS

- Crisis management : Many different stakeholders (i.e. organizations/actors/agencies/entities/...) having different Command and Control Systems and Sensing Systems have to cooperate: *Army, Police, Fire Fighters, Hospitals, Volunteer organizations, Municipality, Civil Protection units, Rescue units,*

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