

PARTNER SEARCH FORM

DATE: 2007-08-80

SOURCE: *iUZ Technologies*

PROJECT INFORMATION

TITLE: Real Time Location Framework for First Responders

ACRONYM: SecureISNow

SUMMARY:

Nowadays, first responders plan rescue missions and define action plans based on critical and accurate information about who, where and when things happen.

Whenever an emergency happens (e.g. fire, earthquake, hurricane, robbery, terrorism attempt), the demand for information increases. Unfortunately, the availability of information systems tends to diminish every time an organization has to deal with a critical situation, as for example when power supplies and/or communications collapse or communications are purposely cut off.

First responders such as the police, medical teams or fire fighters don't usually have access to key information that is kept on the information systems run by the organizations in need of help. This lack of information increases response time and reduces the efficiency of rescue missions, where most of the times the failure is measured in "number of lives lost".

SecureISNow believes that there is a way to make this extremely valuable information available for the rescue forces using both standard solutions and novel technologies.

SecureISNow aims to provide organizations a Location-Based Services Framework (LBS Framework) that will allow first responders to seamlessly connect and process accurate information about the location and state of people, critical equipment and dangerous materials inside the organization facilities immediately before the emergency situation happens and/or when the emergency is happening.

SecureISNow proposes to develop a platform solution that allows different kinds of organizations and first responders to build specific software tools that use the information available from the LBS Framework installed in each organization. Different tools can be developed according the specific function and mission of certain rescue forces.

The LBS Framework is set on a service-based architecture with redundancy mechanisms, in order to assure the availability of the LBS Framework on day-to-day organization activities as well on emergency and critical situations where systems collapse.

In order to provide flexibility, LBS Framework aims to operate based on several standard and widespread technologies such as Wi-Fi, RFID, GPS or Galileo and GSM/GPRS. This flexibility will allow the selection of what technologies should and can be adopted according to the working environment, context and dimensions of the organization facilities.

Possible Scenario

Imagine a fire in a 10 floor building. The energy supply and communications collapse. When the fire fighters arrive at the building, they can use their PDA or Laptop PC to connect to the LBS Framework of that specific building and find out the number of people that were inside when the fire started, as well as their location. They can also find out which sectors of the building contain dangerous materials (e.g. explosives, gas, chemicals). With the correct tools the rescue forces can get an accurate overview of the emergency scenario not only when planning the mission, but also during the mission itself. This kind of information may leverage the success of rescue missions – Saving Lives.

KEYWORDS: Location Services, Real Time, Framework, First Responders, Crisis, Security, Infrastructure, RFID, WI-FI, RTLS

TYPE OF PROJECT:

ACTIVITY 5: Security systems integration, interconnectivity and Interoperability

AREA: Security

TOPIC: ICT-SEC-2007-1.0-04 ICT support for first responders in crises occurring in critical infrastructures

CALL: *FP7-ICT-SEC-2007-1*

PROJECT STATUS: **Planned for submission** **Running EU project**

PARTNERS INVOLVED:

Creative Systems - Development of IT Solutions based on Radio Frequencies.

IT - Create and disseminate scientific knowledge in the field of telecommunications

iUZ Technologies - Integration middleware solutions and Human Computer Interaction

	Partner	Nationality	Functions
1	Creative Systems	Portuguese	Integration Middleware Development Wi Fi Positioning Engine
2	IT – Instituto de Telecomunicações	Portuguese	Development RFID Position Engine
3	iUZ Technologies	Portuguese	Requirements Analysis and Specification Software Solutions Development
4			
5			
6			
7			

PARTNER SOUGHT		
EXPERTISE REQUESTED: RFID Reader Development (Research and Development) WI-FI Portable Tag Miniaturization (Research and Development) First Responder Institution (Demonstration) Critical Infrastructure Organization (Demonstration)		
ROLE: <input checked="" type="checkbox"/> Technology development <input type="checkbox"/> Dissemination	<input checked="" type="checkbox"/> Research <input checked="" type="checkbox"/> Demonstration	<input type="checkbox"/> Training <input type="checkbox"/> Other: Policy impact assessment
ORGANISATION TYPE: <input checked="" type="checkbox"/> SME <input type="checkbox"/> Education/training	<input checked="" type="checkbox"/> Research <input checked="" type="checkbox"/> Technology Transfer	<input type="checkbox"/> Other enterprise <input type="checkbox"/> Other: Intern. Organisation
HOW MANY PARTNERS ARE REQUIRED? 4		
EXPIRY DATE:		
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