



INFRA (Innovative & Novel First Responders Applications)

Recent terrorist attacks in Europe have shown a lot of issues in operation of First responder teams. The most important thing in critical infrastructures is cooperation of First Responder teams and recent terrorist attacks proved the fact that the equipment used by First Responder teams lacks functionality and interoperability. In fact, in the July 7 bombings in London subway system First Responders had to use runners with messages because their radio did not work adequately in tunnels or was incompatible with radios of other teams. Project INFRA is aiming to develop a communication system that will allow First Responders to have reliable means of communication as they enter subway tunnels and buildings with thick concrete walls that are an obstacle to most legacy communication systems. INFRA is also to integrate an intelligent sensory network, a video annotation system and an indoor navigation solution into the equipment of First Responders.

Rinicom's mission in this project is to develop a highly robust system able to communicate regardless of the obstacles. To do that, Rinicom has used its Wireless COFDM mesh networking solution, Rhino, to develop an INFRA node, allowing rapid deployment of a wireless network providing error-free data, voice and video transmission between the teams themselves and the Critical infrastructure command centre.

Upon the completion of the project Rinicom will also submit a standardization proposal for wireless communication infrastructure for First Responders developed in the duration of the project. The proposed standard is to be used by First Responder teams in Europe and will allow Plug & Play functionality for additional applications.



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