SMOTANET |

Development of Software Defined Mobile Ad-hoc Tactical Network Devices and Testbed

SELECTED PROJECTS –EUROPEAN DEFENCE INDUSTRIAL DEVELOPMENT PROGRAMME (EDIDP) 2019

CALL TITLE:	Cyber situational awareness and defence capabilities, military networks and technologies for secure communication and information sharing
TOPIC TITLE:	Modular and adaptive tactical network to control, change and manage network behaviour, including cyber security
DURATION OF THE PROJECT:	36 months
TYPE(S) OF ACTIVITIES:	Studies; Design
TOTAL COST:	€ 3,907,724.00
MAXIMUM EU CONTRIBUTION :	€ 3,907,724.00

MEMBERS OF THE CONSORTIUM AND COUNTRY OF ESTABLISHMENT:

NAME OF THE ENTITY	COUNTRY
INTRACOM DEFENSE SINGLE MEMBER S.A. (COORDINATOR)	Greece
GRIDNET S.A.	Greece
ATHENS UNIVERSITY OF ECONOMICS AND BUSINESS – RESEARCH CENTER	Greece
SIGNALGENERIX LIMITED	Cyprus
ITTI SP. Z O.O.	Poland

SHORT DESCRIPTION OF THE PROJECT:

The objectives of the proposed action is to design a modular, adaptive and secure tactical network. To achieve this, the SMOTANET project will:

- Design tactical devices that integrate three different technologies, namely, Software Defined Radio (SDR), Mobile Ad-hoc Networks (MANET) and Software Defined Networks (SDN).
- Develop testbeds based on the aforementioned devices that will be used to test and evaluate operational scenarios and the corresponding technical solutions according to well defined metrics.

The testbeds will realize representative tactical scenarios, they will implement controller-to-controller, controller-to-switch, and switch-to-switch links and will ultimately unite them in a holistic network-wide network control architecture managed by SDN controllers.

The Studies will deliver operational scenarios and technical requirements in cooperation with the Greek and Cyprus MoDs. The Design Activities will deliver the design specifications of the controller and the switch as well as a testbed that can evaluate the performance of relative networks under realistic conditions.

Related PESCO project: Not Applicable