OBJECTIVES OF THE INDUSTRY WORKSHOP ON

STANDARD ARCHITECTURE FOR SOLDIER SYSTEMS – POWER -

1. OBJECTIVES

This workshop aims at collecting feedback at EU industrial experts' level for the currently developed draft reference power architecture for soldier systems (STASS) going to be subject to standardization.

2. STUDY

The workshop takes place in the framework of the EDA-funded study "Standard Architecture for Soldier Systems – Power -" (STASS, 15.CAT.OP.071).

The design of the STASS shall promote interoperability and interchangeability for national dismounted soldier programmes both at the system level and the component level. The STASS shall allow equipping the soldier for each mission with equipment that is readily interchangeable. The design shall also consider the data distribution concept in order to suggest a predisposition to be integrated in a system with reduced cabling effort.

The design of the STASS shall foster harmonization. It shall be based on a harmonized on-the-man general concept of open power architecture for soldier systems covering the aspects described below. It shall allow for a modular approach to support different soldier's equipment configurations as required by EU Member States participating in the activities of the European Defence Agency (pMS). This general concept shall be supported by the development of operational, system and technical architectural views.

There are currently several soldier's equipment programmes running in Europe, such as FELIN (FR), IDZ-ES (DE), Soldato Futuro (IT), TITAN (PL), COMFUT (ES) and FIST (UK). Most of them are still in a prototyping and field test stage and can thus still be influenced. These programmes resulted in a broad range of very different approaches which grew out of the individual national developments and are only loosely synchronized between the nations. As there are a few nations which already fielded their soldier system, their approaches and lessons learned should be considered on a European level as well as in the other nations.

The design of the STASS shall also be geared towards standardisation. It shall thus be based on a harmonized concept, which must be supported by a roadmap to establish a standard based on it. Open Architectures have been used for standardizing the individual aspects of systems in order to guide component developers. These require much lower integration efforts while, at the same time, increase component production numbers. Such architecture shall be developed in the design as a Standard Architecture for Soldier Systems (STASS). At present, all standardization options are possible, including via national mechanisms, NATO or the European Standardization Organization.

However, since all pMS partaking in the Capability Technology (CapTech) Ground Systems activities are heavily involved in the NATO Dismounted Soldier Systems work, synchronization and complementarity with NATO standardization activities should be sought. Therefore, existing standardization activities, such as UK General Soldier Architecture, NATO STANAGs and others, as applicable, shall be analyzed and taken into account for the design of the STASS. A cost-benefit analysis for the development and the implementation of such a standard shall be conducted.

3. PROFILE OF ATTENDEES

Suitable attendees for this workshop are from:
- Soldier System Main Contractors.
- Soldier System Electronic Device / Component Suppliers.
- Logistic Industry and Contractors for Soldier Systems.

4. METHODOLOGY FOR THE WORKSHOP

The study contractor will present different topics from STASS Design v2 with an extensive discussion session after each individual topic. The feedback from the attendees will be collected and documented in the minutes for further use in Design v3.

5. CONTACT INFORMATION

Please contact the EDA Project Officer, Mr Marek KALBARCZYK (marek.kalbarczyk@eda.europa.eu), for any question and access to the STASS workspace on the EDA Collaborative Platform.

DRAFT AGENDA

EDA INDUSTRIAL WORKSHOP ON THE STASS STUDY

21 JUN 16

(EDA premises, Brussels)

	TIME	TOPIC	AIM & REMARKS
1.	1030 – 1045	Introduction	EDA
2.	1045 – 1130	Brief Study Presentation	Rheinmetall Defence Electronics
3.	1130 – 1200	Background View – Background Material and Technologies	Fraunhofer ICT
4.	1200 – 1230	Background View – Current Soldier Systems	Larimart
	1230 – 1330	Lunch break	
5.	1330 – 1415	Capability, Operational View, and Service Oriented View	Rheinmetall Defence Electronics
6.	1415 – 1500	System View	DNV GL
	1500 – 1515	Coffee break	
7.	1515 – 1530	Standards and Technology View	Fraunhofer ICT
8.	1530 – 1545	Concluding remarks and way ahead	Study team/All
9.	1545 – 1600	End of workshop/Break	
10.	1600 – 1700	STASS Design v2 progress meeting	EDA/PMG/Study team only