Information Systems & Services – BATCIS DT

BATUS Safety System (BSS)

Statement of Requirement for Provision of Post Design Services to the BATUS Safety System under BATCM/0309

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Defence Equipment & Support

AUTHORISATION

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AMENDMENT HISTORY

Issue No.	Details of Amendment	Amended By	Date
0.1	Initiation (First Draft)	ISS Dev-BATCIS-TAC PM3-PPM	12/11/18
0.2	2nd Draft – Commerical Comments	ISS Comrcl-D-51	12/11/18
0.3	3rd Draft – Culmination of Project/Commercial discussions of 2nd Draft	ISS Comrcl-D-51	14/12/18
0.4	Final Draft for ITN	ISS Comrcl-C2-09	15/01/19

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List of Abbreviations

Term	Definition
AESP	Army Equipment Support Publications
AFV	Armoured Fighting Vehicle
BATCIS	Battlefield and Tactical Communication and Information Systems
BATUS	British Army Training Unit Suffield
BSS	BATUS Safety System
CNR	Combat Net Radio
DTC	Domo Tactical Communications Ltd
ICD	Interface Control Document
ICSS	Information and Communications System Support
IU	Initiator Unit
MOD	Ministry of Defence
NSN	NATO Stock Number
OPFOR	Opposition Forces
PM	Project Manager
PMR	Project Management Review
SoR	Statement of Requirements
TDOL	Technical Documents Online
WU	Warning Unit

Background

1. The BATUS (British Army Training Unit Suffield) Safety System (BSS) is a risk mitigation measure employed by Commander BATUS to enhance safety during training at BATUS and is currently supported by Domo Tactical Communications (DTC) Ltd.

2. The BSS acts as a fail-safe to Combat Net Radio (CNR or BOWMAN), which remains the primary means of command and control between safety staff and the training audience at BATUS. However, with the current CNR capability, there is no break in facility over-the-air; hence the reason for BSS being designed and introduced. BSS can override the BOWMAN communication system whether transmitting or receiving, but remains independent of CNR, as it only works through the systems headphone interface.

3. The BSS consists of three main elements: an Initiator Unit (IU); a Warning Unit (WU); and a vehicle-mounted antenna. The system is fitted to: the AFVs within the battlegroup; safety staff; and Opposition Forces (OPFOR - military representing enemy). Its primary role is to enable safety staff to direct the crews of the AFVs to stop the vehicle and cease firing to prevent the loss of life due to driving over dismounted troops, firing at incorrect targets, or any other imminent safety related event, where they have been unable to do so over the CNR. The BSS WU connects into the BOWMAN radio harness and, when the IU is activated, a "stop-stop-stop" voice message is broadcast through the BOWMAN headsets. Initiation can be activated up to 1km within line of sight.

4. The system predates BATCIS, having been brought into service under the Information and Communications System Support (ICSS) Delivery Team. The main thread of history is from personal accounts from those posted to BATUS at the time of its inception. From these accounts, it has been deduced that the system came into service on the recommendation of a coroner's report post-incident. This incident resulted in a fatality after an AFV drove over a dismounted soldier. The AFV crew could not be halted by safety staff because there was no means of interrupting CNR in an emergency. This system remains an indispensible safety measure.

Work Packages

1. **Note**: Reports shall be **Soft / Electronic / Printable / Auditable** using any (where specified) or a combination (as appropriate) of **MS Word, PDF, MS Power-Point or Excel** formats.

Item Number	Description	SoR Detail	Evidence Criteria
1	Managed System and Product to ensure capability	The Contractor shall maintain the availability, integrity, safety, knowledge base, security, and performance of the BATUS Safety System through a proactive programme. This is to be managed via the Authority PM. Any availability issues are to be highlighted at the earliest opportunity. Additional tasks will be put through the Tasking Process as detailed in Clause 47.1 to the Contract.	• Managed programme of activities as set out in the sections below.
2	Tasking Process	The Contractor shall support the task management process. Timescales and priority per task will be agreed at task start point. Any design problems, risks, and issues which the Contractor feels require tasking consideration are to be reported to the Authority PM within 5 working days of identification.	• Tasking Process followed as detailed at Clause 47.1 of the Contract. • Individual tasks fulfilled in accordance with the task's deliverables, and provided in accordance with agreed schedule and completion date.

3	Technical Support	The Contractor shall provide Technical Support via phone calls and email correspondence as appropriate in support of Post Design Services. The Contractor shall host 3 Programme Review meetings per year, which are to be held at the Contractor's facilities. This will include: issuing invites alongside an agenda to the relevant Authority stakeholders and ensuring the presence of necessary Contractor stakeholders; producing minutes, which provide a record of discussion, detail any outstanding actions for all stakeholders, and provide a provisional date for the subsequent meeting. Minutes produced are to be issued to the Authority PM via email within 5 working days of the associated meeting.	• Advice provided as required, all MOD queries passed from the Authority via BATCIS to the Contractor. • Invites and meeting documentation delivered within the specified timelines.
4	Obsolescence	The Contractor shall be solely responsible for managing product obsolescence throughout the duration of the Contract period. The Contractor shall take a proactive approach to obsolescence management. All identified obsolescence issues are to be raised to the Authority PM within 10 working days of identification. If the Authority wishes to take action to address any such obsolescence issues, a task will be raised in accordance with the	• Obsolescence Register included for discussion at the Programme Review meetings detailed in sub-heading 1.3. • Obsolescence-related taskings completed within agreed timescales. • Obsolescence price information provided when appropriate.

		Tasking Process as described at Clause 47.1 of the Contract. The Contractor shall maintain an obsolescence register detailing supplier, product, NSN/part number, and stock data. If required, a solution is to be presented at the Programme Review meeting. Where appropriate and agreed, obsolescence price information will be provided by the Contractor on a case-by-case basis.	
5	Documentation	The Contractor shall maintain the following documentation with version control and details of any amendments: • AESP 5820-F-510 (to be reviewed by the Contractor every 4 years): This shall be accessed through Technical Documents Online (TDOL). Reviews are estimated to be required x 1 in 2019 and x 1 in 2024. • Safety Case 3210SC: This shall be uploaded to eCassandra. Reviews are estimated to be required x 1 in 2019, x 1 in 2021, and x 1 in 2023. • Technical Drawings: These shall be held by the Contractor and can be requested by the Authority PM to provide support such as ICD cable pins to upcoming platforms to be fitted with the BSS.	• Listed documentation maintained in the specified manner throughout the life of the Contract. • Completion of all appropriate AESP 5820-F-510 reviews as directed by the Authority when firm dates are known and agreed. • Completion of all appropriate Safety Case 3210SC reviews as directed by the Authority when firm dates are known and agreed. • Technical Drawings provided to the satisfaction of the Authority PM.

		The Contractor shall fulfil any further documentation updates as requested by the Authority, via the Tasking Process as described at Clause 47.1 to the Contract.	• Taskings related to documentation updates completed within agreed timescales.
6	The Contractor shall facilitate open information sharing	The Contractor and associated sub-Contractors shall provide information as requested by the Authority in support of BSS interest from other platforms. Timescales and priorites for the provision of information shall be agreed on a case-by-case basis. Should a meeting be required to support such requests further, a task shall be raised by the Authority through the Tasking Process as described at at Clause 47.1 to the Contract.	• Provision of requested information provided to specified parties within agreed timescales. • Taskings raised to provide meetings to further support information requests completed within agreed timescales.
7	Configuration of Hardware	The Contractor shall maintain the configuration of hardware in response to any hardware changes driven by Sub-Contractor information or equipment failure reports. Any action required as an outcome of the equipment failure report shall be raised by the Authority through the Tasking Process as described at Clause 47.1 to the Contract.	• Configuration of hardware maintained throughout the life of the contract. • Configuration-related taskings completed within agreed timescales.