Statement of Requirement (SoR)

Reference Number	RQ0000011904
Version Number	1.0
Date	10/07/2022

1.	Requirement									
1.1	Title									
	LCA Dismounted Demonstrator Phases 2 & 3									
1.2	Summary									
	Examine the feasibility of using the OpenVPX standard to deliver a body worn dismounted Radio Frequency (RF) military capability. An initial feasibility study was completed as Phase 1 of this overarching task, showing that use of OpenVPX was a viable standard for certain uses cases. The follow on Phases described in this Requirement will design and manufacture a dismounted demonstrator system, based on outline concepts developed in Phase 1. Each Phase of this task will build to support the overall development and definition of the Land CEMA Architecture (LCA) whose technical specifications are captured in the LCA Technical Standard (LCATS) document.									
1.3	Background									
	The LCA is being developed to provide an open and flexible RF mission system architecture for the benefit of future Land Equipment Programmes. The LCATS defines the use of a number of existing open standards, including									
	 Modular Open RF Architecture (MORA) Generic Vehicle Architecture (GVA) OpenVPX Open Component Portability Infrastructure (OpenCPI) Redacted under FOIA Section 26 – Defence 									

	ecosyste	ntention that the LCATS will be openly published, to facilitate the growth of an em of vendors and products compliant with the LCATS. Release of LCATS under ract may be subject to further commercial conditions.							
1.4	Require	ment							
	Redacted under FOIA Section 26 – Defence								
	Deliverables:								
	1)	Kick-off presentation to discuss scope and agree approach							
	2)	Task 1:							
		a. Reorientation briefing							
		b. Phase 2 design definition and analysis document.							
	3)	Task 2:							
		a. Preliminary Design Pack.							
		 b. Phase 2 presentation and discussion with the authority covering key design features and the recommendations that shall form the Phase 3 options. c. Phase 2 preliminary design mock-up (space model) – Optional deliverable. 							
	4)	Phase 3 proposal reflecting the output from Phase 2 and any feedback back from the Authority.							
	Intellect	ual Property Rights (IPR)							
	there ma stem fro this cont potentia	cipated that the majority of the deliverables will attract DEFCON 705. However, ay be a need to apply DEFCON 703 to any deliverables in Phases 2 and 3 that m the need to achieve the aims and intended use of information generated under ract described in the Background (section 1.3). Specifically, this is to protect the l inclusion of elements of the work carried out under this contract within future, published, versions of the LCATS.							
	Property each Ph satisfyin Phases the cont the cont	tors shall bring to the Authority's attention any and all background Intellectual (IP) they may or do wish to use in fulfilling this contract in their bid proposals for ase, including statements on how this IP is necessary for or beneficial to g the requirements. If any Background IP is proposed for use in the completion of 2 or 3 that impacts the potential use in an openly published Technical Standard, ractor shall also include in their proposals how this will be addressed. In addition, ractor shall highlight any background IP that would necessitate linked bles being delivered as both Full and Limited Rights versions under DEFCON							

	Contractors should note that an impact assessment of any declared background IP forms								
	part of the evaluation criteria.								
	Should the use of additional background IP be identified during the course of the contract,								
	the contractor shall raise this with Dstl immediately.								
	In responses, contractors shall also identify any licencing requirements of third party								
	tools/software/libraries etc. Additionally, should the use of additional third party licences								
	be identified during the course of the contract, the successful contractor shall raise this								
	with Dstl immediately.								
	Security								
	Security aspects are described in the accompanying Security Aspects Letter. It is								
	anticipated that the majority of the work and outputs will be up to UK Official Sensitive.								
	However, discussions and rationale for particular technical requirements and/or Use								
	Cases may attract higher classification.								
1.5	Options or follow on work								
	Phase 3 – Dismounted Demonstrator Final Design and Manufacture (subject to additional contract)								
	Phase 3 will take the preliminary design and Authority feedback from Phase 2 and,								
	combined with Authority specific requirements, generate a dismounted demonstrator final								
	design and subsequently manufacture this design. The aspiration is that the activities in								
	this Phase will mature the Phase 2 design pack, adding additional layers of design								
	analysis which shall underpin the delivery of the final design.								
	Redacted under FOIA Section 26 – Defence								
	Deliverables:								
	1. Kick-off presentation to discuss scope and agree approach								
	O Dhasa O destar definition and enalysis desurrent								
	 Phase 3 design definition and analysis document. Phase 3 manufacturing document 								
	 Phase 3 design definition and analysis document. Phase 3 manufacturing document. Phase 3 implementation conformance and testing documentation. 								
	 Phase 3 manufacturing document. Phase 3 implementation conformance and testing documentation. Dismounted demonstrator system hardware and supporting documentation. 								
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	 Phase 3 manufacturing document. Phase 3 implementation conformance and testing documentation. Dismounted demonstrator system hardware and supporting documentation. Dismounted demonstrator ancillaries (as required). Interim and final Phase 3 presentations and discussions with the authority covering: 								
	 Phase 3 manufacturing document. Phase 3 implementation conformance and testing documentation. Dismounted demonstrator system hardware and supporting documentation. Dismounted demonstrator ancillaries (as required). Interim and final Phase 3 presentations and discussions with the authority 								
	 Phase 3 manufacturing document. Phase 3 implementation conformance and testing documentation. Dismounted demonstrator system hardware and supporting documentation. Dismounted demonstrator ancillaries (as required). Interim and final Phase 3 presentations and discussions with the authority covering: Key implementation design features and to agree the final design for 								

Note: Whilst multiple Phase 2 contracts may be let, it is expected (but not certain) that only one Phase 2 design will be taken forward for detailed design and manufacture in Phase 3.

Deliverables and evaluation criteria for Phase 3 will be confirmed to Phase 2 contractors suitably in advance of proposal submission.

1.6 Deliverables & Intellectual Property Rights (IPR)							
Ref.	Title	Due by	Format	TRL*	Expected classification (subject to change)	What information is required in the deliverable	IPR DEFCON/ Condition
Phase 2	Deliverables						
P2-D1	Kick Off presentation	T0+2 weeks	Presentatio n (.pptx)	n/a	Redacted under FOIA Section 26 – Defence	 Presentation pack to include but not limited to: Overview of technical work to be carried out Project schedule. Review of risk management plan. Commercial aspects. Review of deliverables. Risks/issues. GFA and supplier performance 	DEFCON 705 / 703 as per content
P2-D2	Progress Meetings	Monthly (when no other meeting)	Virtual Meeting	n/a	Redacted under FOIA Section 26 – Defence	General progress update, to include but not limited to: • Technical Progress • Progress against schedule • Commercial Aspects • Risks and Challenges	DEFCON 705 / 703 as per content

						Key actions and decisions to be recorded by the contractor and communicated to Dstl.	
P2-D3	Re-orientation Briefing	T0+1mo nth	Presentatio n	n/a	Redacted under FOIA Section 26 – Defence	 To include: A high level summary of Phase 1 Description of each concept generated in Phase 1 preferred Task 2 concept and rationale An outline plan for Task 2 	DEFCON 703
P2-D4	Design definition and analysis document	T0+3mo nths	Document + Review Meeting	n/a	Redacted under FOIA Section 26 – Defence	 To include: Description of the selected concept. A technical specification (e.g. Size, Weight, Power, RF Capability) that shall be targeted in Task 2, including rationale behind each element of the specification. (may draw on Phase 1) Confirm the key areas of risk in the design and their prioritisation Any identified implications for future LCA technical specifications or design approaches. 	DEFCON 703

P3-D5	Preliminary Design Pack	T0+9mo nths	Document Pack	TRL 2/3 desig n for a TRL5/ 6 demo nstrat or	Redacted under FOIA Section 26 – Defence	 Design Pack to include, as a minimum: Specification Mechanical Design Electrical Design (inc. Backplane) External Interfaces Design Functional Design (and/or assumptions) Format as appropriate for each item (e.g. CAD format for Mechanical design etc.) 	DEFCON 705
P2-D6	Preliminary Design Review	T0+9mo nths	Meeting	n/a	Redacted under FOIA Section 26 – Defence	Presentation and discussion with the Authority covering key design features, review of the Preliminary Design Pack and the recommendations for Phase 3 options. Key actions and decisions to be recorded by the contractor and communicated to Dstl.	DEFCON 705
P2-D7	OPTION: Mechanical Space Model	T0+10m onths	Hardware	n/a	Redacted under FOIA Section 26 – Defence	 Non-functional space/mechanical model that should include: Mechanically functional fittings/mounts for antennas/ancillaries. Physically represent (but not functional) Buttons/HMI. 	DEFCON 705

						 OpenVPX slot(s) should be represented and able to accept space mode/non-functional Plug-In Cards (contractor to provide) Anticipated mass should be represented. 	
P2-D8	Phase 3 Proposal	T0+10m onths	Document	n/a	Redacted under FOIA Section 26 – Defence	A firm price proposal for Phase 3. Scope and deliverables as per Section 1.5, as updated through discussions / recommendations during Phase 2.	n/a

*Technology Readiness Level required

Notes- IPR should be inserted / checked by commercial staff before sharing with the supplier(s) to ensure accuracy.

1.7	Standard Deliverable Acceptance Criteria
	As per Framework T&Cs
1.8	Specific Deliverable Acceptance Criteria
	N/A

2.	Quality Control and Assurance										
2.1	Quality Control and Quality Assurance processes and standards that must be met by the contractor										
	ISO9001 (Quality Management Systems)										
	□ ISO14001 (Environment Management Systems)										
	\Box ISO12207 (Systems and software engineering — software life cycle)										
	□ TickITPlus (Integrated approach to software and IT development)										
	□ Other: (Please specify below)										
2.2	Safety, Environmental, Social, Ethical, Regulatory or Legislative aspects of the requirement										
	No Parts / components expected to attract ITAR.										
	Demonstrator hardware may be assumed to always be used by Suitably Qualified										
	and Experienced Personnel, and will be used in a lab-based (non-operational) environment only.										

3.	Security								
3.1	Highest security classificatio	Highest security classification							
	Of the work	REDACTED							
	Of the Deliverables/ Output UK OFFICIAL-SENSITIVE								
3.2	Security Aspects Letter (SAL)							
	Yes								
	If yes, please see SAL reference	ce- RQ0000011904							
3.3	Cyber Risk Level								
	Low	Low							
3.4	Cyber Risk Assessment (RA)	Reference							
	RAR-456760770								
	If stated, this must be complete	ed by the contractor before a contract can be awarded. In							
	accordance with the Supplier C	cyber Protection Risk Assessment (RA) Workflow please							
	complete the Cyber Risk Asses	ssment available at https://www.gov.uk/guidance/supplier-							
	cyber-protection-service								

4. Government Furnished Assets (GFA)

GFA to be Issued - Yes

GFA No.	Unique Identifier/ Serial No	Description:	Available Date	Issued by	Return Date or Disposal Date (T0+)
Redacte	Redacted	Redacted under FOIA	Redacted	Redacted	Redacted
d under	under	Section 26 – Defence	under	under FOIA	under FOIA

FOIA	FOIA		FOIA	Section 26	Section 26 –
Section	Section		Section	– Defence	Defence
26 –	26 –		26 –		
Defence	Defence		Defence		
Redacte	Redacted	Redacted under FOIA	Redacted	Redacted	Redacted
d under	under	Section 26 – Defence	under	under FOIA	under FOIA
FOIA	FOIA		FOIA	Section 26	Section 26 –
Section	Section		Section	– Defence	Defence
26 –	26 –		26 –		
Defence	Defence		Defence		
Redacte	Redacted	Redacted under FOIA	Redacted	Redacted	Redacted
d under	under	Section 26 – Defence	under	under FOIA	under FOIA
FOIA	FOIA		FOIA	Section 26	Section 26 –
Section	Section		Section	– Defence	Defence
26 –	26 –		26 –		
Defence	Defence		Defence		

5.	Proposal Evaluation criteria		
5.1	Technical Evaluation Criteria		
	TBC - single source authorisation being sought.		
5.2	Commercial Evaluation Criteria		
	TBC - single source authorisation being sought.		