Serapis Tasking Form

Tasking Form Part 1: *(to be completed by the Authority's Project Manager)*

To:	Lot 4 QinetiQ Plc	**From:**	The Authority, Dstl

Any Task placed as a result of your quotation will be subject to the Terms and Conditions of Framework Agreement Number:

LOT 4 DSTL/AGR/SERAPIS/AII/01

VERSION CONTROL

Final 04/11/2021

REQUIREMENT

Proposal Required by:	ASAP	**Task ID Number:**	AII104
The Authority Project Manager:	[REDACTED]	**The Authority Technical Point of Contact:**	[REDACTED]
Task Title:	Machine Speed C2 - Enabling Architectures - Phase 1		
Required Start Date:	04/01/2022	**Required End Date:**	31/03/2022
Requisition No:	1000167212	**Budget Range**	Up to £700k (Including Task Management Services)

TASK DESCRIPTION AND SPECIFICATION

Serapis Framework Lot	☐ Lot 1: Collect ☐ Lot 2: Space systems ☐ Lot 3: Decide ☒ Lot 4: Assured information infrastructure ☐ Lot 5: Synthetic environment and simulation ☐ Lot 6: Understand

Statement of Requirements (SOR)

Background

The future battlespace will become increasingly dynamic and complex driven by greater diversity of threats and actors operating not just in physical domains, but also in virtual and cognitive domains. Military operational leadership will have to interact with allies and non-governmental organisations within a full spectrum approach. These factors, combined with the increasing use of technology, places great demands on a C2 system's ability to generate decisions and actions at pace.

C2 is the pre-eminent joint function and therefore is at the forefront of addressing these challenges. There is a need to transform C2 processes and the application of AI/ML technologies is a potential route to achieving this. In particular:

- *In enabling specialised C2 functions to run at machine speed, enabling time critical responses to be made operationally3.*

- *In undertaking generic C2 tasks to release human capital within a HQ, such as analysis, sensemaking, planning and decision-making.*

The Machine Speed C2 (MSC2) project of the Artificial Intelligence (AI) Programme aims to exploit a wide range of Generation-after-Next AI & ML technologies. This will be enabled by a scalable & adaptable data architecture to significantly enhance C2 activities as well as allowing deployed & other Headquarters to anticipate & adapt faster than adversaries.

Work Package 2 (WP2) of the MSC2 project, titled "Enabling Architectures", aims to design, develop and demonstrate a C2 data architecture that will enable the future use of AI whilst being evergreen, modular and open in nature. The architecture will better enable the C2 community to make use of the rich data holdings available elsewhere across the wider MOD enterprise but to also to better utilise innovative AI tools to make faster and better decisions.

[REDACTED]

Procurement Strategy

☒ Lot Lead to recommend   ☐ Single Source / Direct Award

Pricing:

☒ Firm Pricing   ☐ Ascertained Costs*   ☐ Other*

Firm Pricing shall be in accordance with DEFCON 127 and DEFCON 643

Ascertained Costs shall be in accordance with DEFCON 653 or DEFCON 802.

*only at Authority's discretion

Task IP Conditions

Task IP Conditions (Follow the NIPPY guide to identify your information and IP requirements for each deliverable)	Summary of the Authority's rights in foreground IP (IP generated by the supplier in performance of the contract)
DEFCON 703 ☒ - see deliverables table below	Vests ownership with the Authority
DEFCON 705 Full Rights ☒ - see deliverables table below	Enables MOD to share in confidence as GFI or IRC under certain types of agreements. Can be shared in confidence within UK Government.
OTHER IP DEFCONS: 14* ☐, 15* ☐, 16* ☐, 90* ☐, 91* ☐, 126* ☐	Generally only suitable for deliverables at TRL 6 and above.
BESPOKE IP Clause ☐ *	Details to be added and agreed by IP Group

* Do not use without IPG advice and approval

Please state in this text box if MOD or the customer has a requirement a) that one or more Other Government Departments is able to share confidentially with their own suppliers, b) to publish but you do not think there is a requirement to own or control the deliverable, or c) to share under a procurement* Memorandum of Understanding (MOU).

If any of these three issues applies, please contact IPG for advice before completing this form. *Listing research MOUs is not required, but can be a helpful courtesy to the supplier.

DELIVERABLES

Ref	Title	Due by	Format	TRL	Expected classification (subject to change)	Information required in deliverable	IPR DEFCON
D1	Summary of existing work across MOD and wider industry that could be applied in this space	Within 1 mth of contract start	Memo	n/a	Official		703*
D2	C2 Characteristics Report	Within 2 mths of contract placement	Living document (e.g. wiki) Electronic document record at delivery date**		Official-Sensitive	Characterisation of Key C2 data and Functions Summary of the delta between the current data estate and the future data and architecture requirements for the use of AI in C2	703*
D3	Development and Assessment Plan	Within 2 mths of contract placement	Living document (e.g. wiki) Electronic document record at delivery date **		Official	Plan and approach for undertaking the iterative design, assessment and refinement of prototype architecture designs	705
D4	Demonstration Design and Implementation Plan	End of Feb '22	Living document (e.g. wiki) Electronic document record at delivery date **		Official	Detailed plan for the lab scale demonstration of at least one novel approach applied to C2 data at the storyboard event.	705
D5	Final Report	End of Mar `22	Electronic document		Official-Sensitive	A summary of what's been done in the task, conclusions and recommendations.	703*

OUTPUTS

Ref	Title	Due by	Format	TRL	Expected classification (subject to change)	Information required	IPR DEFCON
O1	Architecture Iterations	n/a	Living document (e.g. wiki)		Official	The iterations of the architecture should be captured in order to provide history and evidence of evoluition. It is expected that This will be an input to the Final Report	703*
O2	Architecture Performance Assessment		Living document (e.g. wiki)		Official	It is desired to see the assessed performance of the architecture as it evolves. It is expected that this will be an input to the Final Report	703*
O3	Demonstration Costed Proposal	End of Feb '22	Electronic Document		Official		n/a
O4	IBEP	End of Mar '22	Electronic document		Official		705

* The IPR DEFCONs listed above are the ideal, but if suppliers feel that there is any existing background IP that may be required to deliver this task and will therefore affect the ability to deliver at DEFCON 703, this should be raised at EOI stage so that the implications can be considered and an approach agreed.

** This deliverable is expected to be continually updated/ developed to reflect how our understanding changes with time. As such it should be mastered in a format that allows collaboration and incrementa updates, such as a wiki. At the end of the task, it should be exported into a formal electronic document deliverable but the focus should be on the content rather than style

DELIVERABLE: ACCEPTANCE / REJECTION CRITERIA

Unless otherwise stated below, Standard Deliverable Acceptance / Rejection applies. This is 30 business days, in accordance with DEFCON 524 Rejection, and DEFCON 525 Acceptance.

Standard Deliverable Acceptance / Rejection:-

Yes ☒ (DEFCON 524 Rejection, and DEFCON 525 Acceptance)

No ☐ (if no, please state details of applicable criteria below)

Deliverable Acceptance / Rejection Criteria:-

If there are any other specific acceptance/rejection criteria you would like to apply to any of the deliverables, please state them here.

Government Furnished Assets (GFA)

ISSUE OF EQUIPMENT/RESOURCES/INFORMATION/FACILITIES (*if not applicable, delete table and insert "None" in this text box*)

Throughout the CSA programme there will be a number of technical research activities taking place which are relevant to MSC2 project and as such relevant information should be shared between them. However, we are not currently in a position to understand the level of potential synergy between the MSC2 project and those elsewhere so the GFX required should be identified in the discovery phase of the project. Relevant information will be shared as it is identified and becomes available.

The wider project will be identifying how and where to source data that may be used for this and subsequent phases of the project as well as a shared environment that can be used for demonstration, testing and evaluation.

QUALITY STANDARDS

☒ **ISO9001**   (Quality Management Systems)

☐ **ISO14001**   (Environment Management Systems)

☐ **ISO12207**   (Systems and software engineering — software life cycle)

☒ **TickITPlus**   (Integrated approach to software and IT development)

☐ **Other:**   (Please specify in free text below)

The outcome needs to be high quality research but for any prototype that is developed, the quality approach needs to be suitable for the needs of the task. It is desired to understand the proposed approach to have confidence that the software, the data used and any of its integration are appropriate.

SECURITY CLASSIFICATION OF THE WORK

The highest classification of this SOR
OFFICIAL   ☐   OFFICIAL-SENSITIVE   ☐   SECRET   ☐   TOP SECRET   ☐   STRAP   ☐   SAP   ☐

The highest expected classification of the work carried out by the contractor
OFFICIAL   ☐   OFFICIAL-SENSITIVE   ☐   SECRET   ☐   TOP SECRET   ☐   STRAP   ☐   SAP   ☐

The highest expected classification of Deliverables/Output
OFFICIAL   ☐   OFFICIAL-SENSITIVE   ☐   SECRET   ☐   TOP SECRET   ☐   STRAP   ☐   SAP   ☐

Is a Security Aspects Letter (SAL) required? *(A Security Aspects Letter (SAL) will be required for each Task above Official-Sensitive and above)*

Yes☐   No ☐

TASK CYBER RISK ASSESSMENT. *(In accordance with DEF STAN 05-138 and the* Risk Assessment Workflow)	
Cyber Risk Level	[REDACTED]
Risk Assessment Reference	[REDACTED]
ADDITIONAL TERMS AND CONDITIONS APPLICABLE TO THIS CONTRACT	

Please ensure all completed forms are copied to DSTLSERAPIS@dstl.gov.uk when sending to the Lot Lead.

Tasking Form Part 2: *(To be completed by the Lot Lead)*

To:	The Authority		From:	The Lot Lead

Proposal Reference	Serapis Task Lot 4 WP2 Phase 1: Machine Speed C2 - Enabling Architectures proposal dated 21st Jan 22	**(attached)**

Delivery of the requirement:

The proposal shall include, but not be limited to:

- A full technical proposal that meets the individual activities that are detailed in Statement of Requirements (Part 1 to Tasking Form).
- Breakdown of individual Deliverables, with corresponding Intellectual Property rights applied.
- Breakdown of Interim Milestone Payments, with corresponding due dates.
- A work breakdown structure/project plan with key dates and deliverables identified.
- A list of required Government Furnished Assets from the Authority, including required delivery dates.
- A clear identification of Dependencies, Assumptions, Risks and Exclusions which underpin your Technical Proposal.
- Sub-Contractors Personnel Particulars Research Worker Form and security clearances (if applicable)

COMMERCIAL

[REDACTED]

PRICE BREAKDOWN

You are to use the costs detailed in Item 2 Table I in the Schedule of Requirement and at Annex E Table 2 of the Serapis Framework Agreement. Please also provide a price breakdown which should include, but is not limited to: Lot Lead Rates, Sub-contractors costs and rates, travel and subsistence. In support of your Proposal you are requested to provide clear details of all Dependencies, Assumptions, Risks and Exclusions that underpin your price.

Offer of Contract: *(to be completed and signed by the Contractor's Commercial or Contract Manager)*

	Firm Price Quotation of **£514,785.51 (Five Hundred and Fourteen Thousand, Seven Hundred and Eighty Five Pounds and Fifty One Pence** (ex VAT), Firm Price Option of **£143,459.70 (One Hundred and Forty Three Thousand, Four Hundred and Fifty Nine Pounds and Seventy Pence)**, and a Limit of Liability Option budget of **£160,959.10 (One Hundred and Sixty Thousand, Nine Hundred and Fifty Nine Pounds and Ten Pence** (ex VAT) is submitted for **Task No All104** and broken down as shown below	
Total Proposal Price in £	£819,204.31	(ex VAT)

Start Date:	1 Feb 22	**End Date:**	15 May 22

Lot Leads Representative	Name	[REDACTED]
	Tel	[REDACTED]
	Email	[REDACTED]
	Date	

Position in Company	Assistant Commercial Manager
Signature	[REDACTED]

Core Work – Breakdown

[REDACTED]
[REDACTED]
[REDACTED]
[REDACTED]

Core Work – Milestone breakdown costs

Proposed Milestones Payments

Your TMS bid costs shall be included in milestone 1.

The final Milestone must reflect the actual cost of the deliverable, and be greater than 20% of the Task value, unless otherwise agreed with your Commercial POC

Please duplicate the template per milestone table format below as necessary, and rename milestone number accordingly.

[REDACTED]
[REDACTED]
[REDACTED]
[REDACTED]

Total Cost	£514,785.51

Options – Summary
[REDACTED]

Any Limit of Liability expenditure will be invoiced at appropriate periods by agreement with the Dstl PM.

Tasking Form Part 3:

To be completed by the Authority's Commercial Officer and copied to the Authority's Project Manager.

1. **Acceptance of Contract:**		
Authority's Commercial Officer	Name	[REDACTED]
	Tel	[REDACTED]
	Email	[REDACTED]
	Date	10/02/2022
Requisition Number		R1000170047
Contractor's Proposal Number		Serapis Lot 4 All104 Machine Speed C2 - Enabling Architechtures - Phase 1 - Proposal - Issue 2
Purchase Order Number		DSTL0000000601
Signature		[REDACTED]
Please Note: Task authorisation to be issued by the Authority's Commercial Officer or Contract Manager. Any work carried out prior to authorisation is at the Contractor's own risk.		