

R Cloud Tasking Form – Part B: Statement of Requirement (SoR)

Title of Requirement	All Through Water Communications
Requisition No.	1000169623
SoR Version	0.21

1.	Statement of Requirements
1.1	Summary and Background Information
	<p>The future underwater (UW) battlespace requires a range of communications solutions to meet the complex requirements for enabling UW effects. There is no single solution for this, but submarine Optical Communications (OCOMMS) provides an opportunity to achieve enhanced levels of communications with submarines REDACTED UNDER FOIA EXEMPTION</p> <p>REDACTED UNDER FOIA EXEMPTION</p>
1.2	Requirement
	<p><u>Objective of the Research</u></p> <p>As part of its research programme, Dstl has a requirement to demonstrate a modified Commercial Off the Shelf (COTS), All through Water (ATW) Optical Communications (OCOMMS) system. REDACTED UNDER FOIA EXEMPTION</p> <p>REDACTED UNDER FOIA EXEMPTION</p> <p>REDACTED UNDER FOIA EXEMPTION To achieve this, there is a requirement to design, construct and conduct demonstrations of an ATW OCOMMS system. REDACTED UNDER FOIA EXEMPTION</p> <p>REDACTED UNDER FOIA EXEMPTION</p> <p>REDACTED UNDER FOIA EXEMPTION Demonstration (by the Contractor) and delivery will take place in the UK during 2020/21, REDACTED UNDER FOIA EXEMPTION</p> <p>REDACTED UNDER FOIA EXEMPTION</p>

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This task is the follow on optional work from a previous Contract, DSTL/AGR/PS/03, Tasking Form

REDACTED UNDER FOIA EXEMPTION REDACTED UNDER FOIA EXEMPTION The scope of work for this contract replaces the Optional tasks detailed under the previous Contract, DSTL/AGR/PS/03, REDACTED UNDER FOIA EXEMPTION due to the expiry of the Task and Framework before Optional work was able to be enacted.

The work described under previously issued Contractor Tender response, REDACTED UNDER FOIA EXEMPTION shall be performed. The work completed and paid for under the previous contract will not be in scope here.

3.2 Work Packages

3.2.2 WP2 REDACTED UNDER FOIA EXEMPTION. The Contractor shall produce a prototype REDACTED UNDER FOIA EXEMPTION

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REDACTED UNDER FOIA EXEMPTION A rigorous design process will be followed and documented throughout this process. Comparative REDACTED tests will be conducted at the Contractor's facilities REDACTED UNDER FOIA EXEMPTION

REDACTED UNDER FOIA EXEMPTION. The design shall:

- REDACTED UNDER FOIA EXEMPTION
- REDACTED UNDER FOIA EXEMPTION
- Be available in the timescales required for subsequent work.

Following on from this research period and design collaboration, a decision will be made as to whether to proceed with the design improvements or revert back to a baseline COTS acquisition, where the strength of any solution (including potential performance improvements) will be assessed compared with the cost of the improvement that might be gained.

1.3 Options or follow on work *(if none, write 'Not applicable')*

The Contractor shall not commence this Optional Work Package work below, unless instructed to do so by the Commercial Services team in writing.

3.2.3 WP3.1 REDACTED UNDER FOIA EXEMPTION construction

The Contractor will construct the ATW OCOMMS modifying components as necessary and testing the system for operational use.

The Contractor will verify operation of the system to the requirements agreed under REDACTED UNDER FOIA EXEMPTION, REDACTED UNDER FOIA EXEMPTION and to the goals of the demonstration. Evidence of conformity shall be provided where required.

3.2.4 WP3.2 Planning of demonstration

The Contractor will plan, in collaboration with Dstl, demonstration of the ATW OCOMMS system, and produce a trials plan for agreement with Dstl.

The trial is proposed to take place **REDACTED UNDER FOIA EXEMPTION** as this site provides an ideal test environment with the following facilities and features:

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The Contractor will be responsible for all aspects of the trial, including, but not limited to:

- Facility booking
- Equipment transportation
- On-site support facilities (both administrative & technical)
- Safety and security clearances
- Visitor hosting
- Trials Plan including clear details of candidate test serials
- Conduct of the trial
- Reporting of results and findings

Indicative performance requirements will be refined. Typical questions to be answered shall include (but not be limited to):

- **REDACTED UNDER FOIA EXEMPTION**
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Output from this demonstration shall be used to test the operation of the system and also to validate the performance models produced in other phases of OCOMMS work. It is therefore imperative that sufficient, repeatable data is obtained from the UK demonstration to be able to populate the models for the purposes of validation.

3.2.5 WP3.3 Execution of Demonstration

The Contractor will successfully conduct the demonstration as planned.

REDACTED UNDER FOIA EXEMPTION
REDACTED UNDER FOIA EXEMPTION Data being recorded shall include but not be limited to:

	<ul style="list-style-type: none"> • REDACTED UNDER FOIA EXEMPTION [REDACTED] • REDACTED UNDER FOIA EXEMPTION [REDACTED] • REDACTED UNDER FOIA EXEMPTION [REDACTED] <p>Note that Dstl will be present as observers for all aspects of the demonstration.</p>
<p>1.4</p>	<p>Contract Management Activities</p>
	<p>The Contract will be carefully managed by the technical team to ensure delivery is kept to schedule and that the Optional work is able to be let in a timely manner before contract expiry.</p>
<p>1.5</p>	<p>Health & Safety, Environmental, Social, Ethical, Regulatory or Legislative aspects of the requirement</p>
	<p>The Supplier shall perform risk assessments for all activities under the contract and shall provide proof of conformance to any of these aspects which are relevant to this requirement, as part of the trials plan deliverable.</p>



1.6 Deliverables & Intellectual Property Rights (IPR)						
Ref.	Title	Due by	Format	Expected classification (subject to change)	What information is required in the deliverable	IPR Condition
D - 3	REDACTED UNDER FOIA EXEMPTION [REDACTED]	T0 + 2 months	Report/presentation (Word/PPT)	OS	REDACTED UNDER FOIA EXEMPTION [REDACTED]	Condition 7 of the R Cloud Version 4 Terms and Conditions applies
D - 4	REDACTED UNDER FOIA EXEMPTION [REDACTED]	T0 + 2 months	Demonstration	OS	REDACTED UNDER FOIA EXEMPTION [REDACTED]	Condition 7 of the R Cloud Version 4 Terms and Conditions applies
D - 5	Technical Report and Presentation: [REDACTED] [REDACTED]	T + 2.5 months	Report / Presentation (Word/ PPT)	OS	REDACTED UNDER FOIA EXEMPTION [REDACTED]	Condition 7 of the R Cloud Version 4 Terms and Conditions applies

	construction and testing'				REDACTED UNDER FOIA EXEMPTION [REDACTED]	
D - 6	Hardware and Software: [REDACTED] [REDACTED] [REDACTED]	T0+4.5 months	Hardware /Software	OS	REDACTED UNDER FOIA EXEMPTION [REDACTED]	Condition 7 of the R Cloud Version 4 Terms and Conditions applies

					<p>REDACTED UNDER FOIA EXEMPTION</p> <p>[REDACTED]</p> <p>[REDACTED]</p>	
D – 7	<p>Trial: REDACTED UNDER FOIA EXEMPTION</p> <p>[REDACTED]</p>	T0+4 months	Trial	OS	<p>REDACTED UNDER FOIA EXEMPTION</p> <p>[REDACTED]</p>	Condition 7 of the R Cloud Version 4 Terms and Conditions applies
D – 8	<p>Technical Report and Presentation:</p> <p>REDACTED UNDER FOIA EXEMPTION</p> <p>[REDACTED]</p>	T0+4.5 months (31 st March 2022 at latest)	Report / Presentation (Word/ PPT)	OS	<p>REDACTED UNDER FOIA EXEMPTION</p> <p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p>	Condition 7 of the R Cloud Version 4 Terms and Conditions applies
D – 9	<p>Technical memo: REDACTED UNDER FOIA EXEMPTION</p> <p>[REDACTED]</p>	T0+1 month	Memo (Word)	OS	<p>REDACTED UNDER FOIA EXEMPTION</p> <p>[REDACTED]</p> <p>[REDACTED]</p>	Condition 7 of the R Cloud Version 4 Terms and Conditions applies



<p><i>D – 10</i></p>	<p>Technical memo: REDACTED UNDER FOIA EXEMPTION </p>	<p>T0+1 month</p>	<p>Memo (Word)</p>	<p>OS</p>	<p>REDACTED UNDER FOIA EXEMPTION </p>	<p>Condition 7 of the R Cloud Version 4 Terms and Conditions applies</p>
<p><i>D – 11</i></p>	<p>Technical Memo: REDACTED UNDER FOIA EXEMPTION</p>	<p>T0+1 months</p>	<p>Memo (Word)</p>	<p>OS</p>	<p>REDACTED UNDER FOIA EXEMPTION </p>	<p>Condition 7 of the R Cloud Version 4 Terms and Conditions applies</p>

1.7	Deliverable Acceptance Criteria
	<p>As stated above for each individual line item.</p> <p>The final technical report shall include, but not be limited to details of work undertaken; the generated data shall be presented in a clear and concise manner.</p> <p>The report is required to be in the form of a written document and be sent to the Technical POCs of the contract</p> <p>Dstl will be responsible for acceptance of the deliverable/s. The outputs will be checked by Dstl for consistency and quality before acceptance.</p> <p>Acceptance will be determined by a formal review of the delivered document/reports to Dstl.</p> <p>Acceptance will take place within 30 days of receipt of the deliverable by Dstl/upon completion of the Contract by the Contractor.</p> <p>The Contractor will be advised if and when the deliverable is acceptable. If any deliverables are not accepted, the Contractor shall be required to take remedial action to the satisfaction of Dstl, at no additional cost to Dstl.</p> <p>The standard Acceptance Criteria where a report is the main deliverable is as follows:</p> <ul style="list-style-type: none"> • All Reports included as Deliverables under the Contract e.g. Progress and/or Final Reports etc. must comply with the Defence Research Reports Specification (DRRS) which defines the requirements for the presentation, format and production of scientific and technical reports prepared for MoD. • Interim or Progress Reports: The report should detail, document, and summarise the results of work done during the period covered and shall be in sufficient detail to comprehensively explain the results achieved; substantive performance; a description of current substantive performance and any problems encountered and/or which may exist along with proposed corrective action. An explanation of any difference between planned progress and actual progress, why the differences have occurred, and if behind planned progress what corrective steps are planned. • Final Reports: shall describe the entire work performed under the Contract in sufficient detail to explain comprehensively the work undertaken and results achieved including all relevant technical details of any hardware, software, process or system developed there under. The technical detail shall be sufficient to permit independent reproduction of any such process or system.

	<ul style="list-style-type: none">• All Reports shall be free from spelling and grammatical errors and shall be set out in accordance with the Statement of Requirement above.• Failure to comply with the above may result in the Authority rejecting the deliverables and requesting re-work before final acceptance.
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