

## RCloud Tasking Form – Part B: Statement of Requirement (SoR)

<b>Title of Requirement</b>	<b>OFFEND+ Concept Demonstrator Development</b>
<b>Requisition No.</b>	<b>RQ0000018965</b>
<b>SoR Version</b>	<b>0.1</b>

<b>1.</b>	<b>Statement of Requirements</b>
<b>1.1</b>	<b>Summary and Background Information</b>
	<p>Further development and upgrades to the OFFEND+ technique and concept demonstrator to implement and demonstrate effectiveness in pseudo-dynamic environments.</p> <p>OFFEND+ is a novel IED Neutralise system that builds on CSA Driving Research and the successful OFFEND concept demonstrator whilst offering the potential of reduced SWaP burden and increased threat coverage.</p> <p>Under previous contracts, the underlying algorithm has been automated and its performance evaluated in an indoor environment. The core algorithm has also been implemented in a “temporarily integrated” Concept Demonstrator system, suitable for static outdoor trials.</p> <p>To achieve Technology Readiness Level (TRL) 6, further development and upgrades to the demonstrator hardware and software control system are required to support live engagement in a pseudo-dynamic environment.</p>
<b>1.2</b>	<b>Requirement</b>
	<p>The overall aim of this approximately 24 month follow-on task is to increase the TRL of the current system and concept demonstrator from its current TRL4 to TRL6 (System/Subsystem model/prototype tested in representative environment).</p> <p><b>Redacted under FOIA Section 26 – Defence</b></p>
<b>1.3</b>	<b>Options or follow on work</b> <i>(if none, write ‘Not applicable’)</i>

	<p>The existing concept demonstrator system hardware is a mixture of equipment procured under previous contracts (signal processing elements) and existing contractor owned hardware (power amplifier, antennas etc.). Whilst it has been suitable for the initial phases of the project, the existing equipment does present some technical and procedural disadvantages that would be remedied with specifically procured equipment.</p> <p>Within the core scope of work <b>Redacted under FOIA Section 26 – Defence</b> the contractor shall provide a firm priced proposal for procurement, integration and testing of an enduring concept demonstrator system, tailored to the OFFEND+ use case, but cognisant of other related projects and use cases such that it could support a range of possible future experimentation and testing. The proposal should focus mainly on replacing the key elements of the system that are currently contractor owned, but may include other hardware/software elements within the budget and time constraints available.</p> <p><b>Redacted under FOIA Section 26 – Defence</b></p>
1.4	<p><b>Contract Management Activities</b></p>
	<p><b>Dstl Bronze level contract management to be led by the project team.</b></p>
1.5	<p><b>Health &amp; Safety, Environmental, Social, Ethical, Regulatory or Legislative aspects of the requirement</b></p>
	<p>Contractor to communicate any health and safety requirements for visitors attending the demonstration(s) in good time prior to the event.</p> <p>All testing shall take place under the contractor’s extant procedures/safe systems of work.</p> <p>No free-to-air/over-the-air transmissions shall take place without obtaining the required transmission licences.</p>

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
D1	Review meetings	Beginning and end of each phase. Additional Midpoint review meeting if phase longer than 6 months.	Meeting and Slide pack (.pdf or .pptx)	n/a	Redacted under FOIA Section 43 – Commercial Interest	<p>A Kick-off meeting at the beginning of each phase. Final review meeting at end of each phase. Midpoint review meeting if phase longer than 6 months. The final review meeting of a phase may be combined with the Kick-off meeting of the next phase if appropriate.</p> <p>Presentation pack to include but not limited to:</p> <ul style="list-style-type: none"> <li>• Update on technical progress</li> <li>• Progress report against project schedule.</li> <li>• Review of risk management plan.</li> <li>• Commercial aspects.</li> <li>• Review of deliverables.</li> <li>• Risks/issues.</li> <li>• GFA and supplier performance</li> </ul> <p>Key actions and decisions to be recorded by the contractor and communicated to Dstl.</p>	DEFCON 705

						<i>Meetings to be held at Contractor or Dstl premises as mutually agreed.</i>	
<i>D2</i>	<i>Progress Updates</i>	<i>Monthly (when no other meeting)</i>	<i>Email or telecon as appropriate</i>	<i>n/a</i>	Redacted under FOIA Section 43 – Commercial Interest	<i>General progress update, to include but not limited to:</i> <ul style="list-style-type: none"> <li>• <i>Technical Progress</i></li> <li>• <i>Progress against schedule</i></li> <li>• <i>Commercial Aspects</i></li> <li>• <i>Risks and Challenges</i></li> </ul> <i>Key actions and decisions to be recorded by the contractor and communicated to Dstl.</i>	<i>DEFCON 705</i>
<i>D3</i>	<i>Technical Report</i>	<i>At appropriate point in schedule (minimum 2 in 24 months)</i>	<i>Report</i>	<i>n/a</i>	Redacted under FOIA Section 43 – Commercial Interest	<i>A formal technical report that accurately describes all work carried out to date, including, but not limited to</i> <ul style="list-style-type: none"> <li>• <i>Algorithm updates</i></li> <li>• <i>Modifications/improvements to hardware/software</i></li> <li>• <i>Experimental testing results and analysis</i></li> <li>• <i>Implications for operational systems based on the concept demonstrator.</i></li> </ul>	<i>DEFCON 705</i>

D4	<i>Trials Report</i>	<i>Trial + 2months</i>	<i>Report</i>	<i>n/a</i>	Redacted under FOIA Section 43 – Commercial Interest	<p><i>A technical report focussing on the final experimental trial (Area 3), including but not limited to:</i></p> <ul style="list-style-type: none"> <li><i>• Description of trials setup and environment</i></li> <li><i>• Description of all experimental tests performed</i></li> <li><i>• All trials data / results obtained</i></li> <li><i>• Analysis of data to quantify SWaP vs performance trade space in various operational configurations.</i></li> <li><i>• Any issues / problems encountered during the trial and their resolution, and any lessons identified/learnt for future trials.</i></li> </ul> <p><i>May be combined with D3 if appropriate.</i></p>	<i>DEFCON 705</i>
D5	<i>Demonstration</i>	<i>At appropriate point in schedule (minimum 2 in 24 months)</i>	<i>Demonstration</i>	<i>n/a</i>	Redacted under FOIA Section 43 – Commercial Interest	<p><i>Demonstration of concept and associated hardware and software. To include presentation/slide pack containing project overview and work carried out to date.</i></p> <p><i>To be held at contractor premises and/or trials site as appropriate.</i></p>	<i>DEFCON 705</i>

						<p><i>Attendees to be mutually agreed between the contractor and the Authority.</i></p> <p><i>Specific scope and content of slide pack and demonstration to be mutually agreed between contractor and Authority (depending on target audience and position in project schedule), at an appropriate point in advance of demonstration date to facilitate appropriate preparation by the contractor.</i></p>	
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**\*Technology Readiness Level required**

<b>1.7</b>	<b>Deliverable Acceptance Criteria</b>
	As per standard T&Cs
<b>1.8</b>	<b>Specific Deliverable Acceptance Criteria</b>
	<p>D5 (Demonstrations) deemed accepted on successfully completion of demonstration and receipt of any accompanying slide pack/material.</p> <p><input checked="" type="checkbox"/> <b>ISO9001</b> (Quality Management Systems)</p> <p><input type="checkbox"/> <b>ISO14001</b> (Environment Management Systems)</p> <p><input type="checkbox"/> <b>ISO12207</b> (Systems and software engineering — software life cycle)</p> <p><input type="checkbox"/> <b>TickITPlus</b> (Integrated approach to software and IT development)</p> <p><input type="checkbox"/> <b>Other:</b> (Please specify below)</p>

<b>2.</b>	<b>Government Furnished Assets (GFA)</b>				
GFA to be Issued - Yes					
<b>GFA No.</b>	<b>Unique Identifier/ Serial No</b>	<b>Description:</b>	<b>Available Date</b>	<b>Issued by</b>	<b>Return Date or Disposal Date (T0+)</b>
GFA-1	TBC	Target technical information (e.g. schematics, component list etc.) as mutually agreed.	T0 +1month	Dstl	Dispose at end of contract
GFA-2	TBC	Targets (whole targets or components) as mutually agreed.	T0 +1month	Dstl	Return at end of contract (if not destroyed during testing)

<b>3</b>	<b>Evaluation Criteria</b>
3.1	Method Explanation
	As the requirement is being offered on a non-competitive bases, the proposal shall be subjected to an informal review, and where required feedback shall be issued to the supplier.
3.2	Technical Evaluation Criteria
	The technical team shall assess how well the proposal demonstrates the ability to meet the Statement of Requirement, and task objectives. Technical proposal should thoroughly show how the supplier intends on meeting the criteria, including timeframes and milestones.
3.3	Commercial Evaluation Criteria
	<p>The commercial evaluation shall consists of the following Pass / Fail questions:</p> <ol style="list-style-type: none"> <li>1. Has the proposal been submitted a firm price, using the accepted RCloud rate card for non-competitive tasks?</li> <li>2. The proposal is fully compliant, and accepts, the RCloud v4 terms in full</li> <li>3. The proposal has included a Supplier Assurance Questionnaire (SAQ) in response to the specified Cyber Risk Assessment detailed in RCloud Document Part A, and the response has included the DCPD correspondence.</li> <li>4. The supplier has submitted One (1) Full Technical proposal excluding all commercial and price details, and has submitted One (1) Full Commercial and Technical proposal including all price data.</li> <li>5. The tender acknowledges the additional terms and conditions in Tasking Order Form Part A?</li> </ol>