

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

Title of Requirement	Hijacking Hoppers Maturation
Requisition No.	RQ0000013498
SoR Version	0.1

1.	Statement of Requirements
1.1	Summary and Background Information
	<p>Hijacking Hoppers is a novel Radio Frequency (RF) Electronic Attack (EA) technique.</p> <p>The technique has potential applications (non-exhaustive) in providing a Counter Radio Controlled Improvised Explosive Devices (C-RCIED) and Counter Unmanned Aerial Systems (UAS) capability for the EOD ECM Specialist, Force Protection Generalist and Specialist User.</p> <p>MD1 have previously produced a concept and technology demonstrator of this technique at TRL4 under STRONGBACK.</p> <p>MD1 will develop their existing Hijacking Hoppers technique from TRL4 to TRL6. This will include an OpenCPI instantiation of Hijacking Hoppers on Software Defined Radio (SDR) hardware.</p> <ul style="list-style-type: none">• TRL4 is defined as: Technology basic validation in a laboratory environment• TRL6 is defined as: Technology model or prototype demonstration in a relevant environment. <p>An option exists for MD1 to demonstrate their TR6 system during a (Dstl led) field trial to ECM stakeholders with a direct comparison to in-service ECM equivalents.</p> <p>Redacted under FOIA Section 26 – Defence</p>
1.2	Requirement
	<p>Requirement 01 – Design and manufacture a technical demonstrator of ‘hijacking hoppers’ technique (TRL6) in OpenCPI on a SDR. Including any MD1 proposed technology / technique updates.</p> <p>Dstl will not provide formal support or advice on OpenCPI or SDR design decisions. Dstl OpenCPI SMEs have offered informal advice and exchanged contact details on a ‘best endeavours’ basis.</p>

	<p>Requirement 02 - Produce write up of activity including technical development and verification. Include novel techniques / OpenCPI integrations lessons learned and discuss opportunities and challenges of novel technique implementation in ECM Equipment Programme.</p> <p>Requirement 03 – MD1 Support to field trial demonstration.</p> <p>Date, location and duration of trial is TBD (anticipated to be 2-3 days maximum).</p> <p>Specific trial activities and schedule are TBD (anticipated to be setup & testing, presentations practise & delivery, demonstrations practice & delivery, question & answers session, wash-up)</p> <p>MD1 will provide:</p> <ul style="list-style-type: none"> – Planning support via teams / face to face meetings. – Technical information of RF output to support RF clearance application. – Hijacking Hopper TRL6 system, ancillaries and its operation / maintenance. – Attendance, participation, travel and subsidence for MD1 staff. – MD1 Presentations to visitors. <p>Dstl will provide:</p> <ul style="list-style-type: none"> – Planning support via teams / face to face meetings. – Demonstration Trials Plan, Risk Assessment and RF Clearances. – Dstl presentations to visitors. – In-Service ECM Capability and ancillaries and their operation / maintenance thereof. – Booking the trials venue (including paying costs). – Secure storage of sensitive / valuable equipment. – Attendance, participation, travel and subsidence for Dstl staff. <p>Administration of visitors e.g. invitations, clearances, catering and provision of ablutions (e.g. Portable Toilets etc.).</p>
1.3	Options or follow on work <i>(if none, write 'Not applicable')</i>
	N/A
1.4	Contract Management Activities

	As standard
1.5	Health & Safety, Environmental, Social, Ethical, Regulatory or Legislative aspects of the requirement
	<p>As in Ts&Cs/Legal requirement</p> <p>Dstl will take responsibility for Safety, Environmental, Social, Ethical, Regulatory or Legislative aspects of the requirement to transmit RF over the air. MD1Tech will be required to follow a mutually agreed trials plan and risk assessment which will be authored by Dstl.</p> <p>Dstl will lead the trial and MD1Tech will follow all reasonable instructions from Dstl staff throughout.</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-1	Quarterly Progress and Technical Review (QPTR 1)	T0 + 3 months and quarterly thereafter	Presentation or technical letter (.pptx or .docx)	Redacted under FOIA Section 43 – Commercial Interest	Presentation or letter to include but not limited to: <ul style="list-style-type: none"> • Update on technical progress • Progress report against project schedule. • Review of risk management plan. • Commercial aspects. • Review of deliverables. • Risks/issues. • GFA and supplier performance 	<i>Default RCloud Agreement Terms and Conditions shall apply</i>
D-2	Hijacking Hoppers TRL6 Demonstrator	Approx T0 + 20-24 months	Technical demonstrator and associated software	Redacted under FOIA Section 43 – Commercial Interest	MD1 will retain and own all hardware. Dstl require a copy of the HH software.	<i>Default RCloud Agreement Terms and Conditions shall apply</i>
D-3	Hijacking Hoppers Technical Report	Approx T0 + 20-24 months	Technical Report (.docx or pdf)	Redacted under FOIA Section 43 –	Technical report to include but not limited to: <ul style="list-style-type: none"> • Technical development and verification. 	<i>Default RCloud Agreement Terms and Conditions shall apply</i>

				Commercial Interest	<ul style="list-style-type: none"> Techniques / OpenCPI Integration approach and lessons learned. <p>Discussion of opportunities and challenges of novel technique implementation in ECM Equipment Programme.</p>	
<i>D-4</i>	MD1 Stakeholder Presentation(s) and demonstration	Approx T0 + 20-24 months	Presentation (.pptx)	Redacted under FOIA Section 43 – Commercial Interest	<p>Presentation to include but not limited to:</p> <ul style="list-style-type: none"> Introduction to MD1 Hijacking Hopper Overview Summary Work Undertaken <p>ECM EP opportunities and challenges.</p>	<i>Default RCloud Agreement Terms and Conditions shall apply</i>

1.7	Deliverable Acceptance Criteria
	<p>Regular (monthly) technical and project discussion between MD1 and Dstl staff. This is to ensure there is a common understanding and consensus of the activities progress and specific nature of the deliverables.</p> <p>Report and presentation deliverables will be reviewed and when appropriate accepted by Dstl staff (STRONGBACK PM, PTA, Hijacking Hoppers Technical Partner). Dstl feedback to be incorporated into deliverables as necessary.</p>

2	Evaluation Criteria
2.1	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.
2.2	Technical Evaluation Criteria
	<p>The technical team shall assess how well the proposal demonstrates the ability to meet the Statement of Requirement, and task objectives.</p> <p>Technical proposal should thoroughly show how the supplier intends on meeting the criteria, including timeframes and milestones.</p>
2.3	Commercial Evaluation Criteria
	<p>The commercial evaluation shall consists of the following Pass / Fail questions:</p> <ol style="list-style-type: none"> 1. Has the proposal been submitted a firm price, using the accepted RCloud rate card for non-competitive tasks? 2. The proposal is fully compliant, and accepts, the RCloud v4 terms in full 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. 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.