

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

Title of Requirement	BISCUIT+
Requisition No.	1000163499
SoR Version	0.1

1.	Statement of Requirements
1.1	Summary and Background Information
	Dstl would like to achieve hardware and software improvements to the ruggedized REDACTED UNDER FOIA SECTION 43, COMMERCIAL INTERESTS (BISCUIT) prototype. BISCUIT is a system delivered to Dstl that 'provides a field-ready prototype means of using 4K cameras with existing bearers'. The BISCUIT system comprises of: - REDACTED UNDER FOIA SECTION 43, COMMERCIAL INTERESTS This system was successfully delivered in March 2021 by Converse Technology Ltd, under Dstl purchase order DSTLX1000149637. During this development, additional work packages (WPs) were identified that were not able to be added due to time constraints. Dstl has identified a number of work packages detailed under section 1.2., that assume, with the exception of work package 4, that the changes or developments made are applied / installed on the 5 * BISCUIT systems previously delivered by Converse Technology to Dstl under purchase order DSTLX1000149637.
1.2	Requirement
	Dstl requests that a firm price is quoted for each of the following work packages. Dstl would like the supplier to note that Dstl may not contract for all of the work packages initially, but instead may include these as optional work packages (task Options) which may be exerted at a future date. WP1: User refinement Additional tweaks following testing and trialling by the users and Dstl to improve the usability of the systems. This includes: - REDACTED UNDER FOIA SECTION 43, COMMERCIAL INTERESTS WP2: Position reporting of risley prisms - To provide a graphical overlay of where the risley prism steering is currently located within the wider region of what is available. Overlay should be able to be switched on/off by the user.

WP3: Camera functionality upgrade

Previous development highlighted that a number of settings available on the Sony block inside the camera unit are not accessible due to the internal architecture of the camera. This meant that several useful functions had to be pre-configured by the manufacturer and were not always optimum for field use.

WP3 will upgrade the camera module to add access to additional controls, and integrate the upgraded camera with the rest of the system. Features to be added are:

- Maintain/return to last known position on start up
- 'Soft' camera reboot
- Assess and minimise initial time to image
- Sony block options, including but not limited to:
 - o Auto/manual focus control
 - o Day/night/auto modes
 - o Image stabilisation on/off
 - o De-fog on/off
 - o Reset to no enhancements

The full list of Sony Block features to be included is to be negotiated once work has commenced.

- The new modes/settings are to be accessible from the REDACTED UNDER FOIA SECTION 43, COMMERCIAL INTERESTS

WP4: Alpha-numeric OSD feasibility

- Testing of the system has found that some feedback to the user displayed on the video feed would be beneficial. This work package is to investigate the feasibility of including an alpha-numeric on the existing REDACTED UNDER FOIA SECTION 43, COMMERCIAL INTERESTS hardware and de-conflict with current processes. REDACTED UNDER FOIA SECTION 43, COMMERCIAL INTERESTS

WP5: Alpha-numeric OSD integration

WP5 is dependent on the success of WP4.

If WP4 concludes that the REDACTED UNDER FOIA SECTION 43, COMMERCIAL INTERESTS unit has the required capacity to host an Alpha-numeric OSD, WP4 will add this aspect to the existing REDACTED UNDER FOIA SECTION 43, COMMERCIAL INTERESTS units and confirm all units still function as expected.

WP6: Risley steering correction options

Risley steering through the REDACTED UNDER FOIA SECTION 43, COMMERCIAL INTERESTS drifts un-intuitively which can be both frustrating and confusing to the user. This WP will investigate options for refining the steering through REDACTED UNDER FOIA SECTION 43, COMMERCIAL INTERESTS

	INTERESTS and the findings formally presented through either a short report or presentation (Supplier to determine most appropriate output) <u>Government Furnished Assets (GFA):</u> In support of this task Dstl confirms that the following items of GFA shall be available for issue to the supplier, and shall be managed in accordance with Clause 21 Government Furnished Assets.
1.3	Options or follow on work <i>(if none, write 'Not applicable')</i>
	WP7: Risley steering correction implementation If suitable options are available for refine the steering in the current system (WP6) this WP will implement an upgrade to the 5 existing prototype units.
1.4	Contract Management Activities
	No specific requirements identified.
1.5	Health & Safety, Environmental, Social, Ethical, Regulatory or Legislative aspects of the requirement
	No specific requirements identified.

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
D1 (WP1)	Reconfigured connectors on REDACTED UNDER FOIA SECTION 40, COMMERCIAL INTERESTS	TBC	Hardware	Official	N/A	Default RCloud Agreement Terms and Conditions shall apply
D2 (WP1)	Deployment aid connectors	TBC	Hardware	Official	N/A	Default RCloud Agreement Terms and Conditions shall apply
D3 (WP3)	Upgraded Camera Units	TBC	Hardware	Official		Default RCloud Agreement Terms and Conditions shall apply
D4 (WP4)	Alpha-numeric OSD feasibility	TBC	Document (.doc or .pdf file type)	Official	Summary document of findings from alpha-numeric OSD inclusion, and go / no-go decision for WP5	Default RCloud Agreement Terms and Conditions shall apply

D5 (WP1, WP2, WP5)	Upgraded REDACTED UNDER FOIA SECTION 40, COMMERCIAL INTERESTS Unit	TBC	Hardware	Official	Including the OSD upgrade where possible.	Default RCloud Agreement Terms and Conditions shall apply
D6 (All WP's)	Updated user guide	TBC	Document (.doc or .pdf file type)	Official	REDACTED UNDER FOIA SECTION 40, COMMERCIAL INTERESTS	Default RCloud Agreement Terms and Conditions shall apply

1.7	Deliverable Acceptance Criteria
	The activity lead for WP3.4 in the Surveillance Project will be responsible for the acceptance. Deliverable are to be assessed on receipt to confirm performance against the SOR. The systems are to be TRL 6, robust and perform as expected/intended. The systems will be free of 'bugs' and suitably reliable and ruggedised for user field trials. The acceptance period will last 30 days from receipt of the 5 systems at Dstl FHD.

2	Evaluation Criteria
2.1	Method Explanation
	Technical & Commercial compliance.
2.2	Technical Evaluation Criteria
	The proposal shall be assessed against technical capability against the specified work packages
2.3	Commercial Evaluation Criteria
	The proposal shall be assessed against the agreed framework labour rates, completion of governance requirements (Research Worker Forms, Cyber Security response), and full acceptance of the RCloud framework terms.