Statement of Requirement (SoR)

Reference Number	1000166864
Version Number	0.3
Date	07/09/2021

1.	Requirement
1.1	**Title**
	Coda Octopus 3D Sonar for RN Project A Experimentation
1.2	**Summary**
	The Project A Experimentation project (iCAS No. 711179) requires a 3D sonar capable of being integrated with a Videoray Defender ROV.
1.3	**Background**
	The Project A Experimentation project is conducting research to determine the capability of a small ROV to use a 3D sonar to enhance search capabilities.
1.4	**Requirement**

The project requires a real-time, scanning, 3D sonar that is capable of being physically fitted to and carried by (within its buoyancy limits) the Videoray Defender ROV. The sonar must also be compatible with the electronic architecture of the Defender ROV. Specifically the sonar must be able operate at a depth of up to 1000m. The sonar should be capable of imaging both large (e.g. seabed features / wrecks) and small objects (25mm in diameter or less) in sufficient detail to enable identification.

Following an extensive market survey by the ROV OEM and Dstl, only one system, the Coda Octopus Echoscope PIPE C500, meets the requirement. Dstl bought a similar system for a previous ROV project and has experience of integrating it with the Defender.

The following Commercial Off The Shelf (COTS) would be required:

- Echoscope PIPE® C500 Triple Frequency with Internal Tilt Sensor (3000m),

- 4G USE (Live & Replay) for PIPE Core,

- 3D Sonar (4WE) ROV Whip Cable,

- Deck Test Cable Set with power supply and 13 to 10-Pin Echoscope Adapter Cable Assembly (for use with the Deck Test Set),

- 5 Year Echoscope C500 Through Life Support (TLS)

- Delivery to DSTL and Import charges for all items

These COTS items are available from (quote attached):

Coda Octopus Products
38 South Gyle Crescent
South Gyle Business Park
Edinburgh, EH12 9EB, UK
T: [Redacted]
E: [Redacted]

1.5	**Options or follow on work**
	Five years of support has been included in the Coda system.

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
N/A. All items are COTS							

*Technology Readiness Level required

1.7	Standard Deliverable Acceptance Criteria
	N/A. All items are COTS
1.8	**Specific Deliverable Acceptance Criteria**
	N/A. All items are COTS

2.	Quality Control and Assurance
2.1	**Quality Control and Quality Assurance processes and standards that must be met by the contractor**
	☐ **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 below) N/A. All items are COTS and covered under warranty and the servicing package.
2.2	**Safety, Environmental, Social, Ethical, Regulatory or Legislative aspects of the requirement**
	N/A. All items are COTS

3.	Security	
3.1	**Highest security classification**	
	Of the work	OFFICIAL SENSITIVE
	Of the Deliverables/ Output	UNCLASSIFIED
3.2	**Security Aspects Letter (SAL)**	
	Not applicable If yes, please see SAL reference- *Enter iCAS requisition number once obtained*	
3.3	**Cyber Risk Level**	
	Not applicable	
3.4	**Cyber Risk Assessment (RA) Reference**	
	313155423 If stated, this must be completed by the contractor before a contract can be awarded. In accordance with the [Supplier Cyber Protection Risk Assessment (RA) Workflow](#) please complete the Cyber Risk Assessment available at https://suppliercyberprotection.service.xgov.uk/	

4.	Government Furnished Assets (GFA)				
GFA to be Issued - No					
GFA No.	**Unique Identifier/ Serial No**	**Description:**	**Available Date**	**Issued by**	**Return Date or Disposal Date (T0+)**