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

Title of Requirement	Survive Sentinel Update
Requisition No.	**RQ0000016039**
SoR Version	**1.0**

1.	**Statement of Requirements**
1.1	**Summary and Background Information**

Update the SURVIVE Vulnerability model so that one of its output files can better support Dstl Maritime Integrated Survivability studies.

The Maritime Integrated Survivability team in Dstl uses SURVIVE as a source of vulnerability data within its MISSION model. To facilitate this, SURVIVE can generate a special output file for MISSION.

In recent years, MISSION has proven to be unsustainable as a capability so Dstl are looking to replace it with a tool based on a COTS model ███████████████████████████, which will be called SENTINEL. This new tool will reproduce most of the functionality that exists within MISSION but there is an opportunity to improve on some aspects.

The vulnerability modelling in MISSION is dependent upon the output files produced by SURVIVE, but there is some duplication of functionality in the two models. MISSION interprets a simplified set of system damage data from SURIVE into an effect on the ship's capabilities and functions. Inputting the data into MISSION is a time-consuming process that can only be partially automated so it is easy to make errors.

With this is mind, Dstl would like to simplify vulnerability modelling in the new tool by modifying SURVIVE to only output the headline damage to functions or capabilities, which would require a different format than the existing MISSION output file. This modification would allow SENTINEL to utilise the full capabilities of SURVIVE, including full system trees.

1.2	**Requirement**

The authority requires the SURVIVE model to be modified so that a new output file is produced.

In common with the MISSION file format, the file should provide an output for each hit location modelled.

The output file should state which ship and threat it applies to and then have a single table, with each row being a separate hit location. ██ ████████ Additional columns should contain the following data:

- Whether or not the ship ████████████████████
- Total number of ████████ in each of SURVIVE's ██████████████████████ ████████████████
- An indication of whether there would be sufficient ████████ available to deal with the ████████████████
- Whether each of the high level functions are ██████████████████████████ ████████

The output file should be a comma-separated ".csv" file, which is both machine-readable and human-readable. The exact format of the data can be agreed at the start-up meeting.

The output file should need no additional data beyond that which is already available from SURVIVE. If any requested data values are not available for output from SURVIVE then this should be advised in the bid and additional costed options should be provided for including this in the option.

A short report or letter describing the output file format should be provided.

The authority will also require a set of example files to be produced using the SURVIVE model. These shall be of a suitable ship and five example threats. The data shall be ████████ ████████.

An updated version of the model does not need to be delivered as part of this contract. Instead, the changes can be included in the next SURVIVE release.

Quality Control and Quality Assurance processes and standards that must be met by the contractor: ISO9001, ISO12207, TickITPlus

1.3	**Options or follow on work**
	A costed option to add the following columns of data ███████████ should be provided. It is assumed that SURVIVE can already produce the required data. ██ ██ ██ ██ Deliverables shall be as for the main requirement: short letter report describing the file format and example outputs for a ship model and 5 example threats.
1.4	**Contract Management Activities**
	Monthly reports
1.5	**Health & Safety, Environmental, Social, Ethical, Regulatory or Legislative aspects of the requirement**
	None

| 1.6 | | | | | | |

Ref.	Title	Due by	Format	Expected classification	What information is required in the deliverable	IPR Condition
D-1	Summary report	T0+3 Months	Word (.doc) and pdf	■	Short report/letter summarising the format of the output files	As per R-Cloud Ts&Cs
D-2	Example output files	T0+3 Months	Comma separated files (.csv)	■	Example output files for a suitable ship and selection of threats in the agreed format. These should be no higher than ■■■■■■.	As per R-Cloud Ts&Cs
D3	Option Summary report	T0+5 Months	Word (.doc) and pdf	■	Short report/letter summarising the format of the output files	As per R-Cloud Ts&Cs

	Option Example output files	T0+5 Months	Comma separated files (.csv)	▮	Example output files for a suitable ship and selection of threats. These should be no higher than ▮▮▮▮▮▮▮▮▮.	As per R-Cloud Ts&Cs

1.7	**Deliverable Acceptance Criteria**
	Milestone payment invoices should not be submitted until the deliverable has been accepted in writing (email) by Dstl. All deliverables will be subject to inspection by the Dstl Technical Authority to ensure the deliverable meets the Dstl technical requirements and the supplier's technical proposal. Report deliverables are to describe the 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.

2	**Evaluation Criteria**
2.1	Method Explanation
	The supplier's Technical and Commercial Proposals will be evaluated by the Dstl technical and commercial authorities to assess whether the content meets with Dstl's requirements and represents appropriate value-for-money. The placing of any contract will depend upon consideration of the proposal received and the Authority reserves the right, at its sole discretion, to proceed to contract for any part or all of a suppliers proposal. And if necessary, not to place any contract as a result. Please note the MOD operates a policy of No Acceptable Price No Contract (NAPNOC).
2.2	Technical Evaluation Criteria
	The supplier's proposal will be technically acceptable if considered by Dstl Subject Matter Experts (SMEs) that the plan is credible and it provides sufficient confidence that it will achieve the requirements within the stated timescales.

2.3	Commercial Evaluation Criteria

Commercial Proposals will be assessed as to whether the content meets with Dstl's requirements and represents appropriate value-for-money.

Commercial Compliance:

Firm price and full firm price breakdown for all costs to be incurred to fulfil this requirement, including:

- What rates are being used for what role
- Quantity of manpower hours per role
- Any Materials costs
- Any Facility costs
- Any sub-contractor costs
- Any travel and subsistence costs
- Any other cost

Compliance with this Task specific terms and conditions as stated within the Statement of Requirement and respective Call-Off Tasking Form.

Commercial Scoring criteria:

Score	Definition
Pass	Fully meets the Authority's requirement. Provision and acceptance of the sub-criteria information in the format requested, which is clear, unambiguous and transparent.
Fail	Unacceptable/Nil Return. Tenderer did not respond to the question or the response wholly failed to demonstrate an ability to meet the sub-criteria requirement