



Ministry  
of Defence

**703708451**

## **THE PROVISION OF A LAND TRAINING TEST AND REFERENCE CAPABILITY (LTT&RC)**

### **STATEMENT OF REQUIREMENT**

**(Version 2 dated 26 Jan 2023)**

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## 1. PURPOSE

- 1.1. This Statement of Requirement (SOR) covers the delivery of a The Provision of a Land Training Test and Reference Capability (LTT&RC) as an independent element of the Future Collective Training System (FCTS) which will facilitate reuse of in-service training delivery systems and sharing of information across training, support engagement with the international community, and provide technical governance.

## 2. BACKGROUND

- 2.1. The MoD may be referred to as “the Authority” hereafter.
- 2.2. The Collective Training Transformation Programme (CTTP) has identified the requirement for a LTT&RC as a mechanism to bring technical coherence to Collective Training simulation and instrumentation through an architectural approach as a result of the pressing requirement to exploit information and reuse services across the enterprise. This project was initiated in May 2020 via a Dstl lead Capability Concept Demonstrator (CCD), this produced three distinct Phase reports, these can be requested if required.
- 2.3. There is no test and reference capability for Land collective training. The Defence Equipment and Support (DE&S) delivery agent (Soldier Training and Special Projects) does not have a technical reference system, instead relying on industry contracted support and the Army Trials and Development Unit support to deliver test and evaluation of new acquisitions. StratCom sponsor the Defence Simulation Centre (DSC), which provides management of the Defence Modelling and Simulation Coherence catalogue and access to simulation licences, terrains and models through the DSC. However, this does not have the scope or capacity to deliver support required by Army Collective Training. The Land Systems Reference Centre provides test and reference capabilities for Communications and Information systems (CIS) but does not have the remit to support training either. These facilities provide specialist elements into a wider capability but critically cannot deliver the totality of complementary functions: reuse of training delivery systems, engagement with international community, and technical governance.
- 2.4. A Land Training Technical Governance Committee will be established to oversee the delivery of the LTT&RC. This Governance committee will be responsible for agreeing the priority of the tasks, agreeing scope and timing of taskings and confirming the outputs are delivered to time, cost and quality.

## 3. OBJECTIVES

- 3.1 The objectives of the Land Training Test and Reference Capability (LTT&RC) are:
  - 3.1.1 **Provide Technical Governance.** Establishing the governance function that will enable the Army to technically assure its implementation of Defence Modelling and Simulation Coherence principles, drawing upon the reference architecture, technical standards and a test bed for evaluating integration compatibility. JSP 939 mandates the Service Command Technical Authority (SCTA) to confirm compliance with the Defence Modelling and Simulation Profile (DMSP) standards. A test bed environment will also be used to test compliance with open standards and support MoD commercial in their role as the Authority accepting integrated training systems into service. This role requires understanding and management of intellectual property alongside technical Suitably Qualified and Experienced Personnel (SQEP).
  - 3.1.2 **Facilitate Reuse.** As directed through JSP 906, the Army must reuse in-service training delivery systems and share information across individual, trade and collective training and force development. There is a need to establish an Army Modelling and Simulation (M&S) catalogue and store that enables both joint users and industry providers to access existing systems and simulation services. This critical function will provide assurance to MoD

commercial that technical Government Furnished Assets (GFA) can be delivered to new suppliers, support access to systems by Defence innovation and research projects and provide reference systems for integration with training partners.

- 3.1.3 **Support Engagement.** It is critical that the UK engages with the international community to influence technology standards and encourage convergence of approaches, especially with wider industry areas; for example, the gaming and information technology markets. International engagement requires a Government interface; as the MoD's technical authority, the LTT&RC will be used to promote collaboration, provide independent advice and assure technical coherence in all services that contribute to the delivery of the FCTS. The engagement function is required to ensure adoption and realising of the benefits from the Defence Synthetic Environment Platform which underpins CTP's transformation of Collective Training simulation systems.

#### 4. SCOPE

- 4.1 The LTT&RC will act on behalf of the Authority to support the technical acceptance of capabilities introduced by the Strategic Training Partner. The LTT&RC provider must therefore be independent from the Strategic Training Partner and unable to play an active part in the competition.
- 4.2 The LTT&RC will not be required to support the delivery of training.
- 4.3 There are enduring requirements for provision of technical governance and reuse. There are also likely to be emergent requirements for engagement support, these will be defined by the Army and provided to the LTT&RC supplier for scheduling and costing, subject to affordability and value for money within the contract.
- 4.4 It is expected that the LTT&RC front door is available during office hours, available to support the CTP delivery team in Andover.

#### 5. DURATION

- 5.1 The duration of the overall requirement is for a thirty-six (36) month period, to start on ~~27-Feb-2023~~ **01 Feb 2023** and expiring on ~~31-Mar-2026~~ **28 Feb 2026**, with one (1) x twelve (12) month option period.

#### 6. LOCATION

- 6.1 The LTT&RC will work primarily from Army HQ in Andover for the duration of contract. The provider will require the ability to travel across the UK and could include five (5) international visits per year (2 x America, 2 x Europe, 1 x rest of the world) to deliver the requirements.

#### 7. REQUIREMENT

- 7.1 The requirements are detailed in Table 1 (see pages 4-5).

#### 8. DELIVERABLES

- 8.1 There are enduring deliverables throughout the life of the LTT&RC as shown in Table 2 (see pages 6-7).

ID	Requirement Text	User	Threshold Measure of Effectiveness (MOE)	Objective MOE
UR-1	The User shall have technical decision support informed by SQEP.	Land SCTA	Qualified through Cranfield's Modelling and Simulation MSc or equivalent with at least two years practitioner delivery experience.	As threshold.
UR-2	The User will have technical evidence to write the CTAR.	Land SCTA	Objective evidence from analysis of the proposals.	Objective evidence from technical investigation of the proposals.
UR-3	The User shall have an effective system of technical governance.	CTTP	Objective evidence to support technical acceptance tests.	As threshold.
UR-4	The User shall receive advice on technical risk.	CTTP	Objective advice on mitigation and control of technical risks.	As threshold.
UR-5	The User shall facilitate GFE (Government Furnished Equipment) <b>to</b> the FCTS drawing it <b>from</b> wider in-service training delivery systems and services.	CTTP	Response within two working days and, where available, provision of GFE elements within two working weeks.	Response within one working day and where available, provision of GFE elements within one working week.
UR-6	The User shall facilitate GFE <b>to</b> wider in-service training delivery systems and services drawing it <b>from</b> the FCTS.	CTTP	Response within two working days and, where available, provision of GFE elements within two working weeks.	Response within one working day and where available, provision of GFE elements within one working week.
UR-7	The user shall share modelling and simulation information from individual, trade and collective training.	Land SCTA	Maintenance of a catalogue with metadata correctly to enable the efficient discovery and validation of currency, provenance and authority of information from nominated systems.	As per threshold with store of information with configuration/version managed through GIT or equivalent.
UR-8	The user shall collate and provide GFI (Government Furnished Information) for the FCTS. NATO (NORTH ATLANTIC TREATY ORGANIZATION) MS / US (UNITED STATES) Synthetic Training Environment cross functional team – other sources – Fight Club, academia, DSTL (Defence Science & Technology Laboratory), list not exhaustive.	CTTP	MODnet Application to expose information with metadata to correctly to enable the efficient discovery and validation of currency, provenance and authority of information.	As threshold.

ID	Requirement Text	User	Threshold Measure of Effectiveness (MOE)	Objective MOE
UR-9	The user shall drive convergence in interoperability standards from NATO Modelling and Simulation Group (NMSG), SISO (Simulation Interoperability Standards Organisation) and Modelling, Instrumentation and Simulation for Training (MIST)	Land SCTA	Maintenance of references to NMSG (NSMG), SISO and MIST work strands focussed on interoperability required between elements within Defence, across other government departments, permanent coalitions including NATO partners. List not exhaustive.	As threshold and contribution to NMSG, SISO and MIST bodies for interoperability required between elements within Defence, across other government departments, permanent coalitions and NATO partners. List not exhaustive.
UR-10	The user shall exploit COTS (Commercial off the Shelf) technology.	DLW (Director Land Warfare)	Maintenance of market intelligence and references to commercial approaches to enable commercial systems and services to be exploited.	As threshold and review of research papers and conferences where commercial approaches are exposed.
UR-11	The User shall understand technical implications of partners training requirements.	DLW	A single point of contact for defining technical standards employed in Combined, Joint, Interagency, Intergovernmental and Multinational (CJIIM) training with a Land contribution.	As threshold.
UR-12	The User shall have managed Enterprise Architecture.	D Info	Architecture maintained using ArchiMate 3.1 using SPARX EA on the Army Hosting Environment.	As threshold.
UR-13	The User shall have managed technical documentation.	D Info	Application to expose information through MODnet.	As threshold with technical documentation maintained within the Architecture.
UR-14	The user shall be provided with technical advice on resolution of disputes between 3 <sup>rd</sup> parties.	CTTP	Objective evidence to support arbitration and resolution of technical disputes.	As threshold.
UR-15	The User shall have access to the LTT&RC.	CTTP, DLW, D Info and Land SCTA.	During office hours 08:30 to 16:30 every day except weekends and bank holidays.	As threshold with addition of exceptional working to satisfy exceptional requests for support.

Table 1 – The endorsed user requirements for the LTT&amp;RC

Ser	Title	Description	Guidance	Frequency	Deliverable	Acceptance Criteria
<b>Enduring Outputs</b>						
1	<b>Technical Governance – Actionable Recommendations</b>	Routine technical advice and decision support delivered on: <ul style="list-style-type: none"> <li>• Applicability of NMSG, Simulation Interoperability Standards Organisation (SISO), Institute of Electrical and Electronics Engineers (IEEE) and MIST.</li> <li>• Standards;</li> <li>• Interoperability constraints between systems;</li> <li>• ITAR/IP/Licencing constraints associated with re-use;</li> <li>• Technical performance.</li> </ul>	To meet UR (User Requirements) 1, 4, 9 and 15	Monthly	PowerPoint brief to the Technical Governance Committee.	Qualified through Cranfield’s Modelling and Simulation MSc or equivalent with at least two years practitioner delivery experience.  Decision support delivered in accordance with Her Majesty's Treasury, Analysis Quality Assurance (AQUA) Book.
2	<b>Technical Governance - Architecture</b>	Training Enterprise Architecture is maintained and updated in response to changes in external interfaces or CTPP’s strategic training partner service delivery model.	To meet UR 12 and 13	Quarterly (1 <sup>st</sup> Weds of the Month)	PowerPoint brief to the Army Enterprise Architecture Board.	Architecture maintained using ArchiMate 3.1 using SPARX EA on the Army Hosting Environment.  Accepted with advice from the Army Enterprise Architecture Board.
3	<b>Technical Governance - Quality Management</b>	Test and reference tasks are managed and conducted with quality processes aligned to MoD governance.	To meet UR 3 and 15	-	Quality Assurance Plan on Contract Award 3 Months.	Delivery iaw DEFCON (Defence Condition) 602A Supplier.

		Evaluation tasks to be tracked and reported iaw Technical Governance Committee defined priorities.		Monthly	PowerPoint brief to the Technical Governance Committee.	Processes are ISO 9001 accredited.
4	<b>Technical Governance - Capability Technical Assessment Report Evidence</b>	Technical evidence to support the Service Command Technical Authority create the Capability Technical Assessment Report (CTAR).	To meet URs (User Requirements) 1,2, 7 and 9	Monthly	PowerPoint brief to the Service Command Technical Authority.	Practice iaw JSP 939.
5	<b>Re-use – Catalogue Government Furnished Assets</b>	Publish list of available Army Simulation Assets with associated technical documentation (inc. Equipment, resources, Information and Facilities) on MODnet.	To meet UR 5, 8, 13	Updated Monthly	Using Army SharePoint.	iaw MODNet (Ministry of Defence Network) SyOPs (SECURITY OPERATING PROCEDURES)
6	<b>Re-use – hold and issue Government Furnished Assets</b>	Hold and issue Army Simulation Software and Simulation Assets with associated technical documentation on behalf of the Army.	To meet UR 5	-	-	Capacity to securely store physical assets not to exceed 4x 40' ISO containers. Capacity to securely store software not to exceed 4TB software.  iaw DEFCON 611 and DEF STAN 05-099.

Table 2 – The enduring deliverables for LTT&amp;RC

**9. PAYMENT**

- 9.1 Fixed (FIRM) Price. The Supplier will issue invoices monthly in arrears in accordance with SC2 Schedule 2 Annex B – Pricing Schedule.
- 9.2 All invoices are to be addressed to the Authority Project Manager whose contact details will be given following any subsequent contract award.
- 9.2 The payment method for this Call-Off Contract is through Contracting, Purchasing & Finance (CP&F) (Exostar).

**10. ACCEPTANCE CRITERIA AND CONTRACT MANAGEMENT ARRANGEMENTS**

- 10.1 The Supplier is required to capture and provide metrics on progress against agreed outputs and deliverables within the contract. The contractor will report to SO2 Trg Cap Simulation on a routine basis to confirm task priorities, stakeholder engagement and progress against contract deliverables:
- 10.1.1 Commercial Performance review meetings (quarterly) including contract start meeting;
  - 10.1.2 Monthly stakeholder review meeting (Land Training Technical Governance Committee);
  - 10.1.3 Weekly project meeting.

**11. PERFORMANCE MONITORING**

- 11.1 Performance monitoring will be carried out by the Authority. The contract will contain performance management/monitoring clauses and KPIs. Serials within this SOR will correspond directly to a KPI/PI, this is referenced within Annex C to SC2 Schedule 2 (Performance Monitoring).
- 11.1 Performance Indicators (PIs) and Key Performance Indicators (KPIs) reporting is to be completed in accordance with Annex C to SC2 Schedule 2 (Performance Monitoring).

**12. SECURITY REQUIREMENTS**

- 12.1 The LTT&RC will operate up to SC with routine access and handling of 3rd party industry, Allies and Partner information.
- 12.2 BPSS clearance may be acceptable on a case-by-case basis if a resource is waiting for SC. This must be agreed with the Authority in advance.
- 12.3 The Supplier is to ensure all information is created, read, shared, stored and destroyed in a manner that is compliant with JSP 441 and Local Standing Orders or Instructions.

**13. GOVERNMENT FURNISHED SUPPLIES**

- 13.1 To enable the delivery of the capability the following will be provided by the MoD:
- 13.1.1 Access to Military Sites,
  - 13.1.2 Access to MOD Laptops and MODnet.
- 13.2 The Supplier shall be responsible and accountable for all GFE/X that is issued to them as per Annex B to SC2 Schedule 2 (Authority Dependencies).



**14. IR35**

- 14.1 The MOD is required to inform the Supplier whether the off-payroll rules apply or not, and in so doing is also required to provide the reasons for reaching the outcome.
- 14.2 We have assessed that under the Intermediaries legislation, the off-payroll working rules do not apply to this engagement.
- 14.3 This decision has been derived by assessing the requirement in full utilising the following criteria at table 3:

Consideration		Indicators of a supply of a managed service
1	How are the deliverables articulated?	Deliverables will be outcome based with the detail of the outcomes clearly specified in the contract with the Supplier.
2	Who do you articulate the deliverable to?	Deliverables will be articulated to the Supplier. The Supplier will tell the worker(s) what is required of them to deliver the contract.
3	Is the worker under the day to day direction or control of MOD or Supplier?	The worker will be under the day to day direction and control of the Supplier.
4	Who does MOD go to if there is an issue with the quality of service?	MOD will raise quality or non-delivery issues with the Supplier not the resource.
5	Where does the risk of failure sit?	The Supplier will be held accountable for non-delivery of the requirements specified in the contract.
6	Are you looking to hire a specific worker?	MOD will not care who the Supplier sends to perform the work / deliver the service as long as the appropriate SQEP resource is provided.

*Table 3 – LTT&RC IR35 status determining criteria***15. END OF CONTRACT/EXIT STRATEGY**

- 15.1 The Authority and the Supplier will agree an exit plan during the Contract period to enable the Supplier Deliverables to be transferred to the Authority ensuring that the Authority has all the documentation required to support and continuously develop the Service with Authority resource or any third party as the Authority requires. The Supplier will update this plan whenever there are material changes to the Services.

**16. CONTINUOUS IMPROVEMENT**

- 16.1 The Supplier will be expected to continually improve the way in which the required Services are to be delivered throughout the Contract duration.
- 16.2 Changes to the way in which the Services are to be delivered must be brought to the Authority's attention and agreed prior to any changes being implemented.