

**Statement of Work for the
Provision of Tactical Data Link (TDL) Integration
and Interoperability Support Engineers**

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TOF – Annex A**

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Statement of Work for the Provision of Tactical Data Link (TDL) Integration and Interoperability Support Engineers

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Acronyms

CCU	Certificate Clearance for Use
CSH	Combat System Highway
DLP	Data Link Processor
DLPA	Data Link Performance Assessment
DLPS	Data Link Processor System
DTS	Data Transfer System
ITEAP	Integrated Test Evaluation and Acceptance Plan
LFE	Learning From Experience
LPD	Land Platform Dock
LPH	Landing Platform Helicopter
MIP	Message Implementation Plan
MLST3	Multi-Link System Test and Training Tool
MLTF	Multi-Link Test Facility
MML	Maritime Multi-Link
MS	Microsoft
MTF	Mobile Test Facility
NWHT	Naval Weapon Harbour Trial
NWST	Naval Weapon Sea Trial
OPDEF	Operational Deficiencies
PDF	Portable Document Format
PICS	Peripheral for the Integration and Control of STDL
PM	Project Manager
PTP	Portsmouth Technology Park
QEC	Queen Elizabeth Class
SOW	Statement of Work
STDL	Satellite Tactical Data Link
STDL(E)	Satellite Tactical Data Link (Enhanced)
TRs	Trouble Reports

Scope

1. This statement of work defines the activities and deliverables for the provision of integration and interoperability support engineers for maritime tactical data links based at the Portsdown Technology Park (PTP) Portsmouth. The 6 month contract with costed options for 3 x 6 month options is essential to maintain the operational effectiveness of the capability and includes the requirement to provide technical expertise and maintain the software and hardware. Support engineers must have suitable SQEP to complete all tasking identified in this SOW and must hold a valid SC security clearance at contract start. Support engineers will operate under the direction of SACC-RN5. The Contractor warrants that it will use reasonable skill and care in providing the services, and these services shall be provided in accordance with this Statement of Work.
2. The specific responsibilities of the Contractor are as detailed below.

Deliverable Reports

3. All reports produced under the tasks detailed in this SOW are to be delivered to DES SACC-RN5 unless agreed prior to task commencement.

Deliverables Work Package 1 – General

4. The table below identifies the work package and deliverables aligned to each tasking.

Task No	Work Package	Additional Detail	Deliverable/s	Frequency / Format
Task 1	Production of monthly activity report.	Report detailing work carried out since the last report. Ensuring that activity and (where stated in this SOW) utilisation conducted to support WP2 Tasks 5, 6 and 7; WP 3 Task 13, 14, 15, 16; WP4 Tasks 18, 19, 20; WP5 Task 21; WP 6 Task 22 is also captured within the report.	Monthly Activity Report by the last working day of the month.	Monthly. MS Word or PDF.
Task 2	Attend a start up meeting and quarterly project review meetings.	Meetings to review deliverables to ensure they remain relevant to the tasks required to support maritime tactical data links.	The Contractor is to issue a calling notice with an agenda at least 10 working days before every designated meeting and meeting minutes 5 working days after the meeting.	At contract start and quarterly. MS Word or PDF.
Task 3	Produce a draft LFE (learning from experience) report about the contract deliverables and scope.		Draft LFE Report.	1 month before the end of contract. MS Word or PDF.
Task 4	Completion of work in progress		Work in progress certificate, to be	Monthly, by the last working day of

Task No	Work Package	Additional Detail	Deliverable/s	Frequency / Format
	certificate.		delivered to SACC RN-5 and SACC Finance.	the calendar month. In the format provided at Annex D to the Tasking Form.

Table 1 - General Activities

Deliverables Work Package 2 – In Service Support Activities

5. The table below identifies the work package and deliverables aligned to each tasking.

Task No	Work Package	Additional Detail	Deliverable/s	Frequency / Format
Task 5	Operate and provide analytical support to new and in service platforms.	Task to be conducted from the Portsdown testing facility using host systems and MLST3 and MLTF.	Utilisation and activity against this task to be recorded in the monthly report.	MS Word or PDF.
Task 6	Contribute to the improvement of TDL system reliability.	Advise on preventative measures to reduce system downtime due to defects identified during testing and trials.	Include in Monthly Activity Report.	During all testing activities. MS Word or PDF.
Task 7	Provide operator and analytical function for the Mobile Test Facility (MTF) for Tactical Data Link Performance Assessments and trials.	Task conducted as directed by DES SACC-RN5. This may require off site travel.	Written observations to be provided to DES SACC-RN6. Utilisation and activity against this task to be recorded in the monthly report.	Report within 2 working days of trial. MS Word or PDF.
Task 8	Produce MTF Test and Calibration Schedules.	Produce test schedules for assuring the operation, accuracy and reliability of the MTF.	MTF Test Schedule document.	One test schedule 6 months after contract start. MS Word or PDF.
Task 9	Conduct an annual assessment and calibration of the MTF at the Portsdown Testing facility.	Provide operator and analytical functions for the annual MTF calibration testing.	Annual test report.	Annual test for the current vehicle commencing May 18. Test report within 10 working days of trial. MS Word or PDF.
Task 10	Draft an ITEAP for the replacement MTF.	Timings dependant on procurement schedule of the replacement MTF. ITEAP to be completed 2 months prior to delivery of replacement MTF.	Draft ITEAP.	MS Word or PDF.

Task No	Work Package	Additional Detail	Deliverable/s	Frequency / Format
Task 11	Produce Acceptance Testing Schedules for the replacement MTF.	Timings dependant on procurement schedule of the replacement MTF. Test Schedules to be completed 1 month prior to delivery of replacement MTF.	MTF Test Schedules.	One set of schedules. MS Word or PDF.
Task 12	Conduct acceptance testing of the replacement MTFs and produce a report of findings.		Post-trial report.	2 vehicles. Tests to be conducted 10 working days after delivery. Test report within 10 working days of trial. MS Word or PDF.

Table 2 - In Service Support Activities

Deliverables Work Package 3 – Integration Activities

6. Integration of a Data Link Processor with a platforms Combat System.

Task No	Work Package	Additional Detail	Deliverable/s	Frequency / Format
Task 13	Test Routine DLPS software updates / changes.	Provide operator and analytical functions for the acceptance testing DLPS software changes for in-service platforms (Type 23, LPD and LPH). Test and trials to be conducted in accordance with DEFSTAN 21-88.	Utilisation and activity against this task to be recorded in the monthly report. Trial reports. Draft CCU.	1 per year, No more than 1 version expected per annum'. MS Word or PDF.
	Testing of PICS operational software.	Test the PICS laptop operational software. Highlight any issues with software or associated equipment following Naval Weapon Harbour Trial (NWHT) / Naval Weapon Sea Trial (NWST). Issues and limitations to be included in the draft DLPS CCU.	Report detailing testing and results. Issues report within 1 month of NWHT / NWST.	MS Word or PDF.
Task 14	Production of DLPS Trouble Reports.	To include summary of issue, priority (based on impact to operations), mitigation plans and when resolved.	Trouble Reports, with outstanding Priority 1 & 2 TRs included in the monthly activity	As identified during testing. MS Word or PDF.

Task No	Work Package	Additional Detail	Deliverable/s	Frequency / Format
			report.	
Task 15	Technical advice for the production of ITEAPs.	ITEAPs will include integration of DLPS, Link 11, Link 16, Link 22, JREAP(C), CAYMAN, TDLS, DNA(2) and CMS 1 on Type 23, Type 26, Type 45, LPD and QEC. Integration and acceptance testing will be conducted using MLST3 and MLTF.	Document reviews. Utilisation and activity against this task to be recorded in the monthly report. Attendance at no more than 4 ITEAP working groups at PTP or off-site. Utilisation and activity against this task to be recorded in the monthly report.	MS Word or PDF.
Task 16	Provide operator and analytical functions for production, execution and post-trial analysis of test schedules for integration testing.	Integration testing of Link 11, Link 16, Link 22, JREAP-C, UK STDL, UK STDL(E), DLPS, TDLS and CAYMAN.	Test Schedules and reports of trials. Utilisation and activity against this task to be recorded in the monthly report.	Trials reports to be produced 10 working days after activity. MS Word or PDF.
Task 17	CAYMAN Software integration scoping.	Scoping to cover the tasks, resources and level of effort required to provide regular software updates to TDLS and the CAYMAN DLP.	Task Specific Report.	6 months after contract placement. MS Word or PDF.

Table 3 - Integration Activities

Deliverables Work Package 4 – 3rd Party Support Activities

7. This work package covers the support for 3rd party equipment Combat System integration testing with TDLS.

Task No	Work Package	Additional Detail	Deliverable/s	Frequency / Format
Task 18	3 rd Party Testing.	Provide operator and analytical function for the execution and post-trial analysis of test schedules for integration testing of 3 rd Party Equipment with Link 11, Link 16, Link 22, JREAP-C, UK STDL, UK STDL(E), DLPS, TDLS and CAYMAN. Platforms to be integrated to are	Testing report. Utilisation and activity against this task to be recorded in the monthly report.	MS Word or PDF.

Task No	Work Package	Additional Detail	Deliverable/s	Frequency / Format
		Type 23, Type 26, Type 45, LPD and QEC. Task will require the operation and production of test scenarios on MLST3.		
Task 19	Mobile 3 rd Party Testing.	Provide operator and analytical functions for the MTF team as requested by DES SACC-RN5 for the purpose of general trials and performance testing involving the integration of 3 rd party equipment and tactical data links including Link 11, Link 16 and Link 22. This may involve off site travel and overnight accommodation.	Test Schedules. Post-Trial Reports. Utilisation and activity against this task to be recorded in the monthly report.	Report of trials conducted within 10 working days of activity. MS Word or PDF.
Task 20	3 rd Party Trouble Reports.	Produce reports describing all new Trouble Reports (TR) raised during 3 rd party testing to include summary of issue, priority (based on impact to operations), mitigation plans and when resolved.	Trouble Reports. Outstanding Priority 1 & 2 TRs included in the monthly activity report.	As identified during testing. MS Word or PDF.

Table 4 - 3rd Party Support Activities

Deliverables Work Package 5 – MML Testing Activities

8. The table below identifies the work package and deliverables aligned to each tasking.

Task No	Work Package	Additional Detail	Deliverable/s	Frequency / Format
Task 21	Provide operator and analytical expertise in support of the MML Project.	Support for MML tests, trials (including integration and interoperability trials), and the review of technical documentation.	Document review. Draft post test and trial reports. Utilisation and activity against this task to be recorded in the monthly report.	Report 10 working days after trial completion. MS Word or PDF.

Table 5 - Maritime Multi Link Activities

Deliverables Work Package 6 – Link 16 Sustainment Activities

9. The table below identifies the work package and deliverables aligned to each tasking.

Task No	Work Package	Additional Detail	Deliverable/s	Frequency / Format
Task 22	Provide operator and analytical expertise in support of the Maritime component of Link 16 Sustainment project.	Support for Link 16 tests, trials (including integration and interoperability trials) and the review of technical documentation.	Document review. Draft post trial reports. Utilisation and activity against this task to be recorded in the monthly report.	Report 10 working days after trial completion. MS Word or PDF.

Table 6 - Link 16 Sustainment Activities