Annex B to Contract ARTYSYS/00260

DISMOUNTED JOINT FIRES INTEGRATOR
(D-JFI)

STATEMENT OF WORK
(SoW)

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Prepared by: The Artillery Systems Delivery Team

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Statement of Work (SoW)

1. **Objectives**

    a.   This Statement of Work (SoW) defines the requirements for the procurement and initial support of the Dismounted-Joint Fires Integrator (D-JFI) to be delivered under Contract Number ARTYSYS/00260.

2. **Aim**

    a.   The aim of this SOW is to explain the D-JFI requirement in the form of Work Packages (WP) that group related requirements together for convenience.

3. **Scope**

    a.   The Contractor shall deliver the following D-JFI requirements to achieve the scope of the Contract:
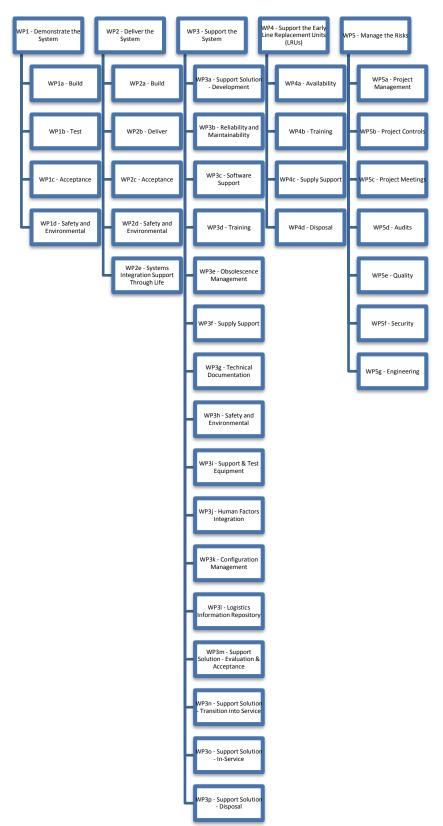
        (1)   D-JFI systems that meet or exceed the threshold performance requirements set out in the System Requirements Document (SRD);

        (2)   The following quantities of D-JFI system configurations as defined in the CONUSE (the Land Fleet Requirement):

        (a)   qty 85 for Fire Support Team (FST)

        (b)   qty 57 for FST(-)

        (c)   qty 77 for Joint Terminal Attack Controller (JTAC)

        (d)   qty 149 for JTAC (L)

        (e)   qty 14 for JTAC (-)

        (f)   qty 52 for HQ-Tactical Air Control Party (TACP)

        (g)   support for the D-JFI systems as specified within WP3 of the SoW

        (h)   a 'Train the Trainer' (T3) package

        (i)   all supporting documentation.

        (3)   Not used.

4. **References**

Reference	Title
D-JFI URD	D-JFI User Requirements Document
D-JFI SRD	D-JFI System Requirements Document
D-JFI TLMP	D-JFI Through Life Management Plan
D-JFI CONUSE	D-JFI Concept of Use
D-JFI CONEMP	D-JFI Concept of Employment
MOD EVM Guidance	MOD EVM Guidance
ISO 9001:2015	Quality Management Systems – Requirements
ASEMS	Acquisition Safety and Environmental Management System
Part 1 SECR	D-JFI Part 1 Safety and Environmental Case Report
D-JFI ITEAP	Integrated Test Evaluation and Acceptance plan

5. SOR Work Package Breakdown Structure

WP1 - Demonstrate the System	WP2 - Deliver the System	WP3 - Support the System	WP4 - Support the Early Line Replacement Units (LRUs)	WP5 - Manage the Risks
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WP1b - Test	WP2b - Deliver	WP3b - Reliability and Maintainability	WP4b - Training	WP5b - Project Controls
WP1c - Acceptance	WP2c - Acceptance	WP3c - Software Support	WP4c - Supply Support	WP5c - Project Meetings
WP1d - Safety and Environmental	WP2d - Safety and Environmental	WP3d - Training	WP4d - Disposal	WP5d - Audits
	WP2e - Systems Integration Support Through Life	WP3e - Obsolescence Management		WP5e - Quality
		WP3f - Supply Support		WP5f - Security
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		WP3h - Safety and Environmental		
		WP3i - Support & Test Equipment		
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		WP3k - Configuration Management		
		WP3l - Logistics Information Repository		
		WP3m - Support Solution - Evaluation & Acceptance		
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		WP3o - Support Solution - In-Service		
		WP3p - Support Solution - Disposal		

6. **WP1 - Demonstrate the System**

   a. **WP1a - Build**

      (1)   The Contractor shall build prototype examples of the D-JFI system to demonstrate through use that the D-JFI system requirements identified in the contracted SRD have been met.

      (2)   The Contractor shall produce and deliver the Interface Control Documents (ICDs) for the system to the Authority in accordance with the table of deliverables at Annex F to the Contract.

   b. **WP1b - Test**

      (1)   The Contractor shall complete the test program as identified in the Verification and Validation Requirements Matrix (VVRM) and Integrated Test, Evaluation and Acceptance (ITEA) Schedule to be confirmed at the ITEA and T&E working groups.

   c. **WP1c - Acceptance**

      (1)   The Contractor shall develop and agree the VVRM on DOORS as per the process and timescales contained within the Integrated Test, Evaluation and Acceptance Plan (ITEAP).

      (2)   The Contractor shall maintain the VVRM from Contract Award until all user acceptance activities identified in the ITEAP are complete.

   d. **WP1d - Safety and Environmental**

      (1)   The Contractor shall provide a final version Part 2 SECR in accordance with DID 017, the Authority's policies and procedures and the table of deliverables at Annex F to the Contract.

      (2)   The Contractor shall provide a hazard log for the equipment to be included in the Part 2 SECR.

      (3)   The Contractor shall populate the Laser Data Questionnaire and return the completed form within 20 working days of release of the ITN.

      (4)   The Contractor shall update the Laser Data Questionnaire if any laser is changed throughout the Contract.

      (5)   The Contractor shall provide a Manufacturers Data Pack in accordance with DID 007 and the table of deliverables at Annex F to the Contract.

7. **WP2 - Deliver the System**

   a. **WP2a - Build**

      (1)   The Contractor shall build the required number of systems outlined in section 3. Scope, paragraph a (2).

   b. **WP2b - Deliver**

(1)   The Contractor shall deliver fully integrated D-JFI systems including applicable Government Furnished Assets (GFA), as defined in Table 1 of the GFA Plan.

(2)   The Contractor shall deliver a final delivery plan in accordance with the table of deliverables at Annex F to the Contract. The delivery plan shall contain, but not be limited to the following:

(a)   Schedule of delivery for all D-JFI Systems

(b)   Financial plan, profiled budget by month

(c)   Key dependencies

(d)   Benefits realisation plan

(e)   Risks and any mitigations

(f)   Resource Plan

(3)   The Contractor shall ensure that all D-JFI deliverables meet or exceed the threshold performance requirements set out in the SRD.

(4)   The Contractor shall deliver Laser Target Designators, InfraRed Pointers, Handheld Laser Marker and Laser Spot Trackers in accordance with the Schedule of Requirements.

(5)   The Contractor shall deliver the ability for the Authority to configure, develop and maintain the software interfaces, without let or hinderance, of the D-JFI system in accordance with conditions 5.1 to 5.17 Intellectual Property Rights of the Contract.

(6)   The Contractor shall demonstrate their software development methodology has considered the use of agile methods and be able to explain the reasoning behind their software development strategy and methodology.

(7)   The Contractor shall deliver a Logistic Demonstration Plan in accordance with DID 026 and the table of deliverables at Annex F to the Contract.

(8)   The Contractor shall provide a GFA Management Plan in accordance with DID 032 and the table of deliverables at Annex F to the Contract.

c.   **WP2c - Acceptance**

(1)   The Contractor shall deliver the acceptance process as per the agreed ITEAP.

(2)   Acceptance of the Support Solution work packages shall be in accordance with the agreed Support Test Evaluation and Verification Plan.

d.   **WP2d - Safety and Environmental**

(1)   The Contractor shall support the Authority in the production of a Part 3 Safety Case for the D-JFI systems.

(2)   The Contractor shall deliver systems that are considered safe in accordance with Def Stan 00-056, Def Stan 00-055 and Def Stan 00-051.

e.   **WP2e - Systems Integration Support Through Life**

(1)   The Contractor shall deliver fully integrated systems including all GFA, as defined in Table 1 of the GFA Plan. However, alternatives to serials 4, 5 and 12 of Table 1 of the GFA Plan will be considered during the Demonstration Phase if these alternatives exceed the performance of the provided GFA and can be integrated without adversely affecting the cost and time parameters of the Project.

(2)   The Contractor shall provide an integration service through the life of the Contract. This should include but not be limited to the following:

(a)   A dedicated D-JFI Software Development Team

(b)   Capacity to conduct support of both software integration services and requests from the Authority for software development.

(3)   The Contractor shall ensure that where the D-JFI system requires, or is required, to communicate with another Authority system, all such communication is performed solely through the interfaces described and provided by the Authority in the manner defined for such interfaces in the form of Information Exchange Requirements (IERs) and ICDs.

8.   **WP3 - Support the System**

a.   **WP3a - Support Solution: Development**

(1)   The Contractor shall deliver and comply with an Integrated Support Plan (ISP) in accordance with DID 001 and the table of deliverables at Annex F to the Contract.

(2)   The Contractor shall deliver and comply with a Supportability Analysis Plan (SAP) in accordance with DID 002 and the table of deliverables at Annex F to the Contract.

(3)   The Contractor shall deliver an In-Service Support Proposal as described at DID 025 and the table of deliverables at Annex F to the Contract.

(4)   The Contractor shall deliver a Supportability Case as described at DID 027 and the table of deliverables at Annex F to the Contract.

(5)   The Contractor shall deliver a Supportability Case Report in accordance with DID 027a and the table of deliverables at Annex F to the Contract.

(6)   The Contractor shall deliver a Facilities Report in accordance with DID 024 and the table of deliverables at Annex F to the Contract.

b.   **WP3b - Reliability and Maintainability (R&M)**

(1)   The Contractor shall manage R&M throughout the D-JFI Contract. The management of R&M shall be agreed with the Authority and comply with Def Stan 00-040 Part 1, Reliability and Maintainability Management Responsibilities and Requirements for Programmes and Plans.

(2)   The Contractor shall deliver and comply with an R&M Plan in accordance with DID 029 and the table of deliverables at Annex F to the Contract.

(3)   The Contractor shall conduct a Criticality Analysis (CA) of the D-JFI System and any Support & Test Equipment and deliver its findings in a CA Report in accordance with DID 003 and the table of deliverables at Annex F to the Contract.

(4)   The Contractor shall maintain a Reliability & Maintainability Case in accordance with DID 028 throughout the term of the Contract.

(5)   The Contractor shall deliver an R&M Case Report summarising the findings of the CA and detailing their recommended R&M activities/tasks in accordance with DID 028a and the table of deliverables at Annex F to the Contract.

(6)   The Contractor shall deliver a Level Of Repair Analysis (LORA) plan in accordance with DID 030 and the table of deliverables at Annex F to the Contract.

(7)   The Contractor shall conduct a LORA of the D-JFI System and any Support & Test Equipment and deliver its findings in a LORA Report in accordance with DID 004 and the table of deliverables at Annex F to the Contract.

(8)   The Contractor shall deliver a Maintenance Task Analysis (MTA) Plan and the table of deliverables at Annex F to the Contract.

(9)   The Contractor shall conduct a MTA of the D-JFI System and any Support & Test Equipment and deliver its findings in a MTA Report in accordance with DID 005 at a date agreed in the MTA Plan.

(10)   The Contractor shall deliver a Reliability Centred Maintenance (RCM) Report in accordance with DID 023 and the table of deliverables at Annex F to the Contract.

(11)   The Contractor shall deliver a Reliability Demonstration Plan in accordance with DID 015 and the table of deliverables at Annex F to the Contract.

(12)   The Contractor shall resource, plan and deliver all outputs required to conduct a Reliability Demonstration.

(13)   The Contractor shall deliver a Data Recording, Analysis and Corrective Action System (DRACAS) Report in accordance with DID 013 and the table of deliverables at Annex F to the Contract.

(14)   The Contractor shall ensure that, if applicable, the calibration of the D-JFI system and/or components of the System is included as part of the Planned Maintenance Schedule.

(15)   The Contractor shall provide technical analysis of all equipment failures and notify the Authority of the data, analysis and corrective action utilising the DRACAS Report.

c.   **WP3c - Software Support**

(1)   The Contractor shall work collaboratively with the Authority to collect, assess and sentence software observations.

(2)   The Contractor shall propose consolidated work packages for consideration and recommendation by the Joint Sentencing Committee to the Joint Configuration Control Board (JCCB) based upon the categorisations and priorities assigned to the observations.

(3)   The Contractor shall develop, implement and deliver an JCCB endorsed consolidated work package subject to the availability of sufficient cover within a designated support budget in accordance with a schedule agreed with the Authority.

(4)   In accordance with the D-JFI Fielding Plan, the Contractor shall deliver the required number of software licences to the Authority at Acceptance of first system into service.

(5)   The Contractor shall deliver and comply with a Software Support Plan in accordance with DID 021 and the table of deliverables at Annex F to the Contract.

(6)   The Contractor shall produce and deliver a MORPHEUS ECD Integration Strategy and Plan within 120 UK working days of receipt of MORPHEUS ECD ICDs.

d.   **WP3d - Training**

(1)   The Contractor shall provide a Defence Systems Approach to Training (DSAT)[1] compliant Train the Trainer (T3) package for Users.

(2)   The Contractor shall provide a DSAT compliant Train the Trainer (T3) package for Maintainers.

(3)   The Contractor shall update all T3 training packages and all training materials to be compliant with any changes in the Training Needs Analysis (TNA).

(4)   The Contractor shall deliver training materials/publications in hard and soft copy with the right for the Authority to make unlimited copies for internal use only, in accordance with the table of deliverables at Annex F to the Contract.

(5)   The Contractor shall contract for and manage the delivery of a TNA through an independent provider that has no association with the Prime Contractor. The TNA is to be completed in accordance with the Joint Effects Training Development Team D-JFI Statement of Work.

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[1] As defined in Def Stan 00-600

(6) The Contractor shall ensure that the Contract awarded to the independent TNA provider stipulates that the Authority will be the owner of the TNA.

e. **WP3e - Obsolescence Management**

(1) The Contractor shall deliver and comply with an Obsolescence Management Plan (OMP) in accordance with DID 012 and the table of deliverables at Annex F to the Contract.

(2) The Contractor shall deliver an Obsolescence Management Report (OMR) in accordance with DID 012a and the table of deliverables at Annex F to the Contract.

(3) The Contractor shall deliver an Obsolescence Monitoring Report to the Authority of urgent obsolescence risks and their impact in accordance with the table of deliverables at Annex F to the Contract

(4) The Contractor shall deliver an Obsolescence Monitoring Report to the Authority of urgent obsolescence issues with recommendations for resolution in accordance with the table of deliverables at Annex F to the Contract.

(5) The Contractor shall conduct Obsolescence Management, Monitoring and reporting throughout the Contract.

f. **WP3f - Supply Support**

(1) The Contractor shall deliver and comply with a Supply Support Plan composed in accordance with DID 006 and the table of deliverables at Annex F to the Contract.

(2) The Contractor shall deliver a Packaging, Handling, Storage and Transportation Report in accordance with DID 008 prior to commencement of the manufacture phase.

(3) The Contractor shall be required to engage with a packaging Supplier on the Military Packagers Approval List and ensure all packaging requirements for D-JFI are managed through the chosen Supplier.

(4) The Contractor shall identify and develop suitable models for ranging and scaling, initial provisioning and re-provisioning together with responsibilities and time scales for the following:

(a) Built In Spares (BIS)

(b) Initial Provisioning - Maintenance Spares

(c) Testing and Tuning Spares

(d) Initial Replenishment Stock (IRS)

(e) Initial Repair Programme Support

(f) Initial Contingency Support

(g)   Priming Equipment Packs (PEP)

(5)   The Contractor shall provide the Authority with a recommended Initial Provisioning List of Spares for the Authority to procure, as per DEFCON 82. Spares to be procured shall be in sufficient Range and Scale to enable the Level One User and Level Two and Three Maintainer to repair the D-JFI system and replace the Range of agreed parts in the forward operating area.

(6)   The Contractor shall deliver an Initial Provisioning List composed in accordance with DID 009 and the table of deliverables at Annex F to the Contract.

(7)   The Contractor shall deliver the spares that have been agreed with the Authority and detailed on the Initial Provisioning List by a date requested by the Authority.

(8)   The Contractor will deliver any inventory identified for provisioning to the Authority's depot, Donnington.

(9)   The Contractor shall deliver all inventory in accordance to Contract Key Performance Indicators to the Authority's Depot.

(10)   The Contractor shall deliver a Codification Report in accordance with DID 035 and the table of deliverables at Annex F to the Contract.

(11)   The Contractor shall deliver a Spares and Repair forecast in accordance with the table of deliverables at Annex F to the Contract.

(12)   The Contractor shall deliver a Priming Equipment Pack (PEP) Report which comprises of a list of detailed spares that make up the PEP and is composed in accordance with DID 010 and the table of deliverables at Annex F to the Contract.

(13)   The Contractor shall deliver the spares that have been agreed with the Authority and detailed in the Priming Equipment Pack Report by a date requested by the Authority.

(14)   The Contractor shall deliver the Authority owned Priming Equipment Pack stock to the Defence Fulfilment Centre at Donnington.

(15)   The Contractor shall utilise Original Special To Contents packaging when utilising the Reverse Supply Chain and is to be consistent with packaging Level J.

g.   **WP3g - Technical Documentation**

(1)   The Contractor shall deliver and comply with a Technical Documentation Management Plan (TDMP) composed in accordance with DID 011 and the table of deliverables at Annex F to the Contract.

(2)   The Contractor shall maintain and update Technical Documentation as specified in the TDMP in accordance with the delivery and update schedule, and information given in the Technical Documentation Contract Document Requirements List (Annex F to the Contract).

h.   **WP3h - Safety and Environmental**

(1)   The Contractor shall adopt Safety Management Principles as described ASEMS.

(2)   The Contractor shall deliver a Safety and Environmental Management Plan (SEMP) composed in accordance with DID 016 and the table of deliverables at Annex F to the Contract.

(3)   The Contractor shall maintain the SEMP throughout the life of the Contract in accordance with Def Stan 00-056, Def Stan 00-055 and Def Stan 00-051. This shall include but not be limited to a preliminary Hazard Identification and Analysis.

(4)   The Contractor shall raise, review, control and issue Contractor generated Safety Notices to the Authority.

(5)   The Contractor shall notify the Authority of any safety concerns immediately following discovery.

(6)   The Contractor shall implement and maintain a robust safety and environmental management process with an objective of no reportable incidents whilst working on or with MOD equipment. The Contractor shall aim to have no RIDDOR reportable incidents directly related to the use, storage or maintenance of equipment. The Authority shall be advised of any RIDDOR reportable incidents within 3 UK working days.

i.   **WP3i - Support & Test Equipment**

(1)   The Contractor shall deliver and comply with a Support and Test Equipment (S&TE) Plan in accordance with DID 022 and the table of deliverables at Annex F to the Contract.

(2)   The Contractor shall deliver a S&TE Report in accordance with DID 022a and the table of deliverables at Annex F to the Contract.

(3)   The Contractor shall ensure that the calibration of S&TE is included as part of the Planned Maintenance Schedule.

j.   **WP3j - Human Factors Integration**

(1)   The Contractor shall deliver and comply with a Human Factors Integration (HFI) Plan composed in accordance with DID 037 and the table of deliverables at Annex F to the Contract.

k.   **WP3k - Configuration Management**

(1)   The Contractor shall produce and deliver a Configuration Management Plan (including a Configuration Item Status Report) in accordance with Def-Stan 05-57, DID 031 and the table of deliverables at Annex F to the Contract.

(2)   The Contractor shall maintain the Configuration Management Plan throughout the life of the Contract.

(3)   The Contractor shall manage Configuration Control for all sub-contractor equipment.

(4)   The Contractor shall update and maintain a Configuration Status Record (CSR) for D-JFI. An up to date CSR for D-JFI shall be made available to the Authority at each Project Review Meeting.

(5)   Immediately after each update, the Contractor shall deliver a copy of the MRI in the format of an Electronic Bill of Materials (eBOM) to the Authority. The eBOM shall be provided in excel format for each platform and shall consist of the following data fields as a minimum:

(a)   Logistic Control Number,

(b)   Part Number, Build

(c)   Drawing Number,

(d)   Parent Item,

(e)   Quantity Fit per Mother Item,

(f)   NSN, where available,

(g)   Original Equipment Manufacturer (OEM),

(h)   OEM Part Number.

(6)   The Contractor shall update and maintain the eBOM for D-JFI. An up to date eBOM for D-JFI shall be made available to the Authority at each Project Review Meeting.

l.   **WP3l - Logistics Information Repository**

(1)   The Contractor shall establish, develop and maintain a Logistic Information Repository for the complete D-JFI system including sub-systems and components.

(2)   The Contractor shall allow the Authority access to the Logistic Information Repository throughout the length of the Contract. The Authority requires to be able to view the Contractor's LIR at any time and in real time.

(3)   The Contractor shall update the Logistic Information Repository with all proprietary data and whole life cost data for equipment provided by the Contractor, sub-Contractors and equipment suppliers within 20 UK working days of its receipt.

(4)   The Contractor shall provide and maintain all proprietary data and whole life cost data on Authority applications through direct access within 20 UK working days of its receipt.

m.   **WP3m - Support Solution: Evaluation & Acceptance**

(1)   The Contractor shall resource, plan and deliver all outputs required to meet the Logistic Demonstration as described in DID 026.

(2)   The Contractor shall update the ILS products, Logistic Information Systems (Log IS) and deliverables to reflect the design milestones of

Preliminary Design Review (PDR) and Critical Design Review (CDR) for Manufacture and Acceptance into Service.

(3)   The Contractor shall deliver a Support Test Evaluation and Verification Plan as described in DID 019 and the table of deliverables at Annex F to the Contract.

(4)   The Contractor shall resource, plan and deliver all outputs required to conduct the Support Test, Evaluation and Verification.

n.   **WP3n - Support Solution: Transition into Service**

(1)   The Contractor shall deliver a Replenishment and Re-provisioning of Spares Plan detailing the recommended Replenishment and Re-provisioning for upkeep of Spares during the In-Service phase of the D-JFI System in accordance with the table of deliverables at Annex F to the Contract.

(2)   The Contractor shall deliver and comply with a Transition Management Plan (TMP) composed in accordance with DID 034 and the table of deliverables at Annex F to the Contract.

o.   **WP3o - Support Solution: In Service**

(1)   The Contractor shall update the Product Design and the Product Maintenance Data Pack (MDP) to reflect the design milestones of PDR and CDR for Manufacture and Acceptance into Service.

(2)   In the event of Contract Termination: The Contractor shall provide to the Authority an updated MDP that is concurrent to reflect the Product design and not be more than six months out of date within 60 UK working days of the Contract exit date.

(3)   The Contractor shall update and maintain the Logistic Support Documentation and the Logistic Information Repository within one month of any change.

(4)   The Contractor shall be responsible for the provision, management and maintenance of Log IS data through the direct utilisation of the Support Chain Information Systems Log IS portfolio of applications for Inventory Management, Supply Chain Management and Engineering and Asset Management.

(5)   The Contractor shall provide a Supply Support service, which shall be detailed in the In-Service Supply Support Plan (DID 036 refers). This service shall:

(a)   Respond to User supply and technical queries within the routine Standard Priority Code (SPC) requirements for steady state,

(b)   Track supply chain movements both forward and reverse informing the Authority of Dues Out and Dues in transactions,

(c)   Deliver a Spares Inclusive service,

(d)   Monitor defects and Incidents of the D-JFI systems being returned as Unserviceable by the User. This shall include the regime for sentencing the

D-JFI system to identify Attributable and Non-Attributable Failures as referred to in DID 001 Integrated Support Plan refers (DRACAS/FRACAS), which includes Accidental, Misuse and Damage (AM&D).

(e)   Satisfy spares consumable demands within the standard routine SPC requirements for steady state.

(6)   The Contractor shall deliver all In-Service Technical Documentation in accordance with Def Stan 00-601 Pt 4, Issue 1 dated 28 Jun 2019.

(7)   The Contractor shall update and maintain Technical Documentation within one month of any technical changes to the capability.

(8)   The Contractor shall provide a Depth Repair Support Service for the D-JFI system that is fully compatible with the Authority Joint Support Chain and interfaces with the Authority logistic information requirements. This Depth Repair Support Service shall be able to sustain the Authority steady state and enhanced operational requirements.

(9)   The Contractor shall provide Post Design Services.

p.   **WP3p - Support Solution: Disposal**

(1)   The Contractor shall provide a Disposal Plan (DID 018 refers) that shall detail the Contractors deliverables and management services being provided as part of this Contract.

9.   **WP4 - Support the Early Line Replacement Units (LRUs)**

a.   **WP4a - Availability**

(1)   The Contractor shall provide a depth Support Service for the early LRUs that is fully compatible with the Authority Joint Support Chain and interfaces with the Authority logistic information requirements. This depth Support Service shall be able to sustain the Authority steady state and enhanced Availability requirements.

(2)   The Contractor shall provide the Authority with a recommended Initial Provisioning List of Spares for the Authority to procure, as per DEFCON 82. Spares to be procured shall be in sufficient Range and Scale to enable the Level One User and Level Two Maintainer to repair LRUs and replace the Range of agreed parts in the forward operating area.

(3)   The Contractor shall conduct a LoRA and MTA and deliver the findings in Reports in accordance with DIDs 004 and 005 and the table of deliverables at Annex F to the Contract.

b.   **WP4b - Training**

(1)   The Contractor shall provide 1 x Train the Trainer (T3) User/Operator package for up to 12 Trainers, to include T3 Level One Maintenance Tasks and must be compliant with the DSAT.

(2)   The Contractor shall provide 1 x Train the Trainer (T3) Maintainer package, including Level 2 and 3 Maintenance Tasks for up to 12 Trainers and must be compliant with the DSAT.

c. **WP4c - Supply Support**

(1)   The Contractor shall deliver a Packaging, Handling, Storage and Transportation Report in accordance with DID 008 and the table of deliverables at Annex F to the Contract.

(2)   The Contractor shall provide a Supply Support service, which shall be detailed in the Supply Support Plan (DID 006 refers). This service shall:

(a)   Respond to User supply and technical queries within the standard routine SPC requirements for steady state,

(b)   Track supply chain movements both forward and reverse informing the Authority of Dues Out and Dues In transactions,

(c)   Deliver a Spares Availability service,

(d)   Be capable of accelerating the Spares Availability service as per the enhanced requirements within 10 UK working days of being notified by the Authority,

(e)   Monitor defects and Incidents of LRUs being returned as Unserviceable by the User. This shall include the regime for sentencing of LRUs to identify Attributable and Non-Attributable Failures. (DID 013 refers),

(f)   Satisfy spares consumable demands within the standard routine SPC requirements for steady state

(3)   The Contractor shall supply an Enhanced Deployed Spares Pack of Parts and LRUs that is to be derived from the Priming Equipment Pack Report composed in accordance with DID 010 and the table of deliverables at Annex F to the Contract.

d. **WP4d - Disposal**

(1)   The Contractor shall provide a Disposal Plan (DID 018 refers) that shall detail the Contractors deliverables and management services being provided as part of this Contract.

(2)   The Authority reserves the right to purchase the In-Service and Contractors swing stock of LRUs at a discounted price at the end of the Contract.

10. **WP5 - Manage the Risks**

a. **WP5a - Project Management**

(1)   The Contractor shall develop the PMP in consultation with the Authority until an agreed plan has been produced.

(2)   The Contractor shall deliver Version 1 of the agreed PMP in accordance with the table of deliverables at Annex F to the Contract.

(3)   The Contractor shall update the PMP for the duration of the contract, updates to be provided 10 UK working days prior to Project Review Meetings. This will be presented and reviewed at Project Review Meetings (WP5c).

(4)   The Contractor shall comply with the agreed PMP.

(5)   The Contractor shall provide all documents, minutes and plans in a MS Office 2016 compatible format.

(6)   The Contractor shall provide the Contractor Master Schedule and Gantt charts in a Primavera compatible format. Where the document is collaborative or for review it shall be provided in an editable format.

(7)   The Contractor shall provide up to date deliverables of the following to support the Reviews outlined in WP5c:

(a)   Risk Register,

(b)   Contract Performance Report,

(c)   Contract Master Schedule,

(d)   Meeting Minutes,

(e)   Actions Log,

(f)   PMP.

(8)   The Authority shall endeavour to review all documents provided for review within 10 UK working days unless otherwise stated within the Contract.

(9)   The Contractor shall deliver an Exit Plan in accordance with the table of deliverables at Annex F to the Contract.

b.   **WP5b - Project Controls (Schedule, Risk and Earned Value Management)**

(1)   The Contractor shall deliver Earned Value Management (EVM) to the Authority at Level 3 in accordance with DESBMS-1195896625-2171(Industrial Interface) guide and as tailored by the following table:

Requirement	Level 3
Risk and Opportunity Management Plan	X
Cost Risk Analysis	X
Schedule Risk Analysis	X
Active Risk Manager (or similar Risk Register)	X

Key X = Required O = Optional Blank = Not Required

(2)   The Contractor shall deliver EVM Contract Performance Reports (CPRs) to the Authority in accordance with the table of deliverables at Annex F to the Contract.

(3)   The Contractor shall deliver a draft Contractor Master Schedule in accordance with the table of deliverables at Annex F to the Contract.

(4)   The Contractor shall deliver an Earned Value Management Plan (EVMP)(DID 054 refers), Contract Work Breakdown Structure (CWBS) and CWBS Dictionary (DID 055 refers) agreed by the Authority and in accordance with the table of deliverables at Annex F to the Contract.

(5)   The Contractor shall deliver a final Contractor Master Schedule (DID 056 refers) that has been approved by the Authority in accordance with the table of deliverables at Annex F to the Contract.

c.   **WP5c - Project Meetings**

(1)   The Contractor shall attend and support all joint (Authority-Contractor) Project Review Meetings, these will be conducted quarterly at premises to be agreed at Contract Award.

(2)   The Authority will chair performance reviews with the Contractor. The agenda for the reviews will include the content of the Contract Performance Report.

(3)   The Contractor shall provide Secretariat duties for all joint (Authority-Contractor) meetings, reviews and working groups.

(4)   The Contractor shall produce the draft minutes of all meetings, reviews and working groups and issue these to the authority within 5 UK working days of the event.

(5)   The Authority will circulate and return for updates within 10 UK working days of receipt of draft minutes.

(6)   The Contractor shall deliver the final minutes within 5 UK working days of receipt of comments.

(7)   The Contractor shall submit an ILS Progress Report containing detailed information relevant to the content of DID 033 at each Project Review Meeting.

(8)   The Contractor shall develop and manage an Action Log, for all meetings, this shall include, but not be limited to:

(a)   Unique Serial Number,

(b)   Action status,

(c)   Action description,

(d)   Action date,

(e)   Action to be completed by (person),

(f)   Action to be completed by (date).

(9)   The Contractor shall manage and update the Authority with the delivery and manufacturing programme for D-JFI at Project Review Meetings. This shall include but not be limited to:

(a)   PRM covering risk, issues and opportunities; schedule; GFA.

(b)   Risk

(c)   ILS/SCM

(d)   ITEA (e.g. ITEA schedule, VVRM, test descriptions and trial-management plans).

(e)   Financial accruals against delivery/milestone payment plan

(10)   The Contractor shall provide a Project Review Meeting report delivered 10 UK working days in advance of Project Review Meetings. This shall include, but not be limited to the following:

(a)   Project Progress Update,

(b)   RAIDO,

(c)   Time/Performance Variance Explanations,

(d)   Commercial,

(e)   Safety and Environmental.

(11)   The Contractor shall acknowledge that discussion at meetings on variations to the terms and conditions of the Contract are non-binding until a Contract Amendment has been agreed.

(12)   The Contractor shall attend Annual Contract Performance Reviews this will include general gain share opportunities. The Annual Contract Performance Review will take the place of one of the Quarterly Reviews.

(13)   The Contractor shall attend biannual Logistic Support Committee (LSC) Meetings until completion of the Logistic Support Demonstration in accordance with the ILS Plan and on an ad hoc basis as required by the Authority.

(14)   The LSC will be managed in accordance with the Authority's ILS Plan.

d.   **WP5d - Audits**

(1)   The Authority reserves the right to Audit the Project Management activities of the Contractor. The Authority shall give 10 UK working days' notice of any audit.

e.   **WP5e - Quality**

(1)   The Contractor shall implement, maintain and document an ISO 9001:2015, or equivalent i.e. AS9100, compliant Quality Management System (QMS), as certified by a UKAS accredited 3rd party certification

body. The scope of the Certification shall be appropriate to the requirements of this Contract. Certification shall be maintained throughout the duration of the Contract. All work carried out during the Contract shall be undertaken in accordance with the contracted Allied Quality Assurance Publications (AQAP) and any applied Defence Standards.

(2)   The Contractor shall provide, implement and maintain a Deliverable Quality Plan in accordance with the requirements of Allied Quality Assurance Publication (AQAP) 2105 and DEFCON 602A. The Contractor shall deliver a Quality Management Plan (QMP) required under DEFCON 602A and is to be developed in accordance with AQAP 2105 Edition C before the commencement of work.

(3)   The Contractor shall comply with the requirements of AQAP 2110 Edition D, version 1 - NATO QUALITY ASSURANCE REQUIREMENTS FOR DESIGN, DEVELOPMENT AND PRODUCTION. A Certificate of Conformity (CoC) shall be provided, for each completed article, in accordance with DEFCON 627.

(4)   Where the Contractor seeks approval to deliver a non-conforming product the Contractor shall comply with the requirements of Def Stan 05-61 Part 1 - Quality Assurance Procedural Requirements – Concessions.

(5)   Where the Contractor is required to undertake specific tasks at a MOD establishment, facility or at locations external to the Contractor's premises, the requirements of Def Stan 05-61 Part 4 - Contractor Working Parties shall be complied with.

(6)   The Contractor shall, if it is applicable, comply with the requirements of AQAP 2210 Edition A Version 2 - NATO Supplementary Software Quality Assurance Requirements to AQAP 2110. Where Contractor intends to design, develop, produce and test software a Deliverable Software Quality Plan, in accordance with AQAP 2210, shall be submitted to the Authority.

(7)   The Contractor shall comply to DEF-STAN 05-135 Issue 2, Avoidance of Counterfeit Material. The contractor will conduct and deliver to the Authority a self-assessment against the Counterfeit Avoidance Maturity Model within 3 months of contract award. The self-assessment will be reviewed on an annual basis.

(8)   During the period of this Contract Government Quality Assurance Surveillance (GQAS) may be carried out to provide confidence to the Authority that the Contractor is fulfilling the requirements of the Contract. Only an authorised MOD Government Quality Assurance Representative (GQAR) will perform GQAS for this Contract. The guidance relating to GQAS can be found in AQAP 2070 - NATO Mutual Government Quality Assurance (GQA) Process and STANAG 4107. The Contractor shall provide reasonable access to the GQAR to undertake QA surveillance Activities.

f.   **WP5f - Security**

(1)   The Contractor shall provide a D-JFI system that securely shares information and is accredited for use up to and including UK SECRET.

(2)   The Contractor shall provide a D-JFI system that will securely store the metadata exchanged between D-JFI equipment.

(3)   The Contractor shall supply the Authority with documentary assurance that its supply chain is appropriately security cleared within 30 UK working days of Contract Award.

(4)   The Contractor shall ensure that D-JFI is only held on sites that are List X approved.

(5)   The specific system security requirements are captured in the SRD.

g.   **WP5g - Engineering**

(1)   The Contractor shall deliver a Supplier Engineering Management Plan in accordance with the table of deliverables at Annex F to the Contract, which defines the Contractor's approach to monitoring and controlling their engineering quality (control and assurance) throughout the Implementation and Realisation[2] phase.

(2)   The Contractor shall deliver a Supplier Technical Proposal which describes how the supplier is going to approach the delivery of the Solution Architecture and includes the suppliers proposed approach to the engineering management of their work, as per the D-JFI Engineering Management Plan. Delivered in accordance with the table of deliverables at Annex F to the Contract.

(3)   The Contractor shall deliver a Manufacturer Technical Proposal which informs the audit, assessment, selection and justification of a preferred manufacturer in accordance with the Manufacturer Selection Criteria and System Specification. Delivered in accordance with the table of deliverables at Annex F to the Contract.

(4)   The Contractor shall deliver a Manufacturing Process Definition which defines the manufacturers approach to monitoring and controlling the quality of their output and processes (control and assurance) throughout the manufacturing stage, in order to meet the acceptance criteria agreed in the Manufacturer Agreement. Delivered in accordance with the table of deliverables at Annex F to the Contract.

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[2] As defined in the Engineering Management Plan

Appendix 1 - Table of Deliverables

The Table of Deliverables is provided at Annex F to the Contract.

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Appendix 2 to
D-JFI SoW
Dated 08 Dec 2020

Appendix 2 – Technology Readiness Level (TRL) Definitions

Definitions as per the Knowledge in Defence (KiD), formerly the Acquisition System Guidance or Army Operational Framework:

http://aof.uwh.diif.r.mil.uk/aofcontent/tactical/techman/downloads/trl_definitions.pdf

http://aof.uwh.diif.r.mil.uk/aofcontent/tactical/techman/content/trl_applying.htm

TRL	Definition	Description	Supporting Evidence
9	Actual Technology System Qualified through successful mission operations.	Actual Application of the technology in its final form and under operational conditions. Technology proven in-service. Successful operational experience	ISRM Reports, User validation. May be linked to FOC
8	Actual Technology system completed and qualified through test and demonstration	Technology has been proven to work in its final form and under expected conditions. In almost all cases, this TRL represents the end of true technology and integration development. Examples include developmental test and evaluation of the system in its intended platform to determine if it meets design specifications. All functionality teste in simulated and operational scenarios	Results of testing the system in its final configuration under the expected range of environmental conditions in which it will be expected to operate. Assessment of whether it will meet its operation requirements. What problems, if any, were encountered? What are/were the plans, options or actions to resolve problems in-service? Usually linked to ISD.

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		Hardware		Software	
		Description	Supporting Evidence	Description	Supporting Evidence
7	Technology prototype demonstration in an operational environment	Prototype near or at planned operational system. Represents a major step up from TRL 6 by requiring demonstration of an actual system prototype in an operational environment may be defined as that which exposes the technology to the physical, electrical, environmental and security interfaces that will be experienced in service.	Results from testing a prototype system in an operational environment. Who performed the tests? How did the test compare with expectations? What problems., if any, were encountered? What are the plans, options, or actions to address the delta of where the technology is now and that required for ISD (the next level)?	Level at which the program feasibility of a software technology is demonstrated. This level extends to operational environment prototype implementations where critical technical risk functionality is available for demonstration and a test in which the software technology is well integrated with operational hardware/software systems.	Critical technological properties are measured against requirements in a simulated operational environment. Full integration.
6	Technology system/sub-system model or prototype demonstration in a relevant environment	Representative model or prototype system, which is well beyond that of TRL 5, is tested in a relevant environment. Represents a major step up in a technology's demonstrated readiness. Examples include field testing a prototype in a high-fidelity laboratory environment or in a simulated operational environment operating	Results from field testing of a prototype system that is near the desired configuration in terms of performance, eight and volume. How did the test environment differ from the operational environment? Who performed the tests? How did the test compare with expectations? What problems. if any, were	Level at which the engineering feasibility of a software technology is demonstrated. This level extends to laboratory prototype implementations on full scale realistic problems in which the software technology is partially integrated with existing hardware/software systems.	Results from Laboratory testing of a prototype package that is near the desired configuration in terms of performance, including physical, logical, data and security interfaces. Comparisons between tested environment and operational environment and analytically understood. Analysis and test measurements quantifying contribution to

		under proposed protocols.	encountered? What are the plans, options, or actions to resolve problems before moving to the next level?		system-wide requirements such as throughput, scalability and reliability. integration of basic components.
5	Technology component and/or basic technology subsystem validation in relevant environment	Fidelity of technology increases significantly. The basic technological components are integrated with reasonably realistic supporting elements so they can be tested in a simulated environment. Examples include high fidelity laboratory integration of components and basic field trials to prove capability concepts	Results from testing a laboratory based system are integrated with other supporting elements in a simulated operational environment. How does the relevant environment differ from the expected operational environment? How do the test results compare with expectations? What problems, if any, were encountered?	Level at which software technology is ready to start integration with existing systems. The prototype implementations conform to target environment/interfaces. Experiments with realistic problems. Simulated interfaces to existing systems. System software architecture established. Algorithms run on a processor(s) with characteristics expected in the operational environment.	System architecture diagram around technology element with critical performance requirements defined. Processor selection analysis, Simulation/Stimulation (sim/Stim) Laboratory build-up plan. Software placed under configuration management. COTS in the system software architecture is identified. integration plan.

| 4 | Technology component and/or basic technology subsystem validation in relevant environment | Basic technological components are integrated as sub-systems to establish that they will work together. This is relatively low fidelity compared with the eventual system. Examples include integration of ad-hoc hardware in the laboratory | System concepts that have been considered and results from testing laboratory scale models. References to who did this work and when. Provide an estimate of how hardware and test results differ from the expected system goals and (re) assess the way forward. | Basic software components are integrated to establish that they will work together. They are relatively primitive with regard to efficiency and robustness compared with the eventual system. Architecture development initiated to include interoperability, reliability, maintainability, extensibility and scalability issues. Emulation with current/legacy elements as appropriate. Prototypes developed to demonstrate different aspects of eventual system. | Advanced technology development, standalone prototype solving a synthetic full-scale problem, or standalone prototype processing fully representative data sets. Assessment of architecture and how it will be integrated. |
| 3 | Analytical and experimental critical function and/or characteristic proof-of-concept | Active R&D is initiated. This includes analytical studies to physically validate the analytical predictions of separate elements of the technology. Examples include components that are not yet integrated or representative | Results of laboratory tests performed to measure parameters of interest and comparison to analytical predictions for critical subsystems. References to who, where and when these tests and comparisons were performed. What are the plans to | Active R&D is initiated. The level at which scientific feasibility is demonstrated through analytical and laboratory studies. This level extends to the development of limited functionality environments to validate critical properties and analytical predictions | Algorithms (or software components) run on a surrogate processor in a laboratory environment, instrumented components operating in laboratory environment, laboratory results showing validation of critical properties. |

			address the delta of where the technology is now and that required for ISD - are they viable?	using non-integrated software components and partially representative data.	
2	Technology concept and or/application formulated	Invention begins. Once basic principles are observed, practical applications can be invented. Applications are speculative, and there may be no proof or detailed analysis to support the assumptions. Examples are limited to analytical studies.		Publications or other references that outline the application being considered and that provide analysis to support the concept. Applied research activities, analytic studies, small code units and papers comparing competing technologies	
1	Basic Principles observed and Reported	Lowest level of technology readiness. Blue skies scientific research begins to be translated into applied research and development (R&D). Examples might include paper studies of a technology's basic properties.		Published research that identifies the principles that underlie this technology. Reference to who, where, when. Early lab model of basic concept may be useful for substantiating the TRL level.	

Term	Definition
Component	A single element of technology. The lowest sub-system that provides sufficient granularity to identify technical risks and opportunities
High Fidelity	Addresses form, fit and function. A high-fidelity laboratory environment involves testing with equipment that can simulate and validate all system specifications within a laboratory setting
Integration	The systematic, structured and progressive activity of testing, validating and verifying the interactions between sub-systems up to the overall system
Low Fidelity	A representative of the component or system that has limited ability to provide anything but initial information about the end product. Low fidelity assessments are used to provide trend analysis.
(Mathematical) Model	A functional form of a system that begins to demonstrate the interaction of the (sub) system with the wider environment
Operational Environment	An Environment that addresses all the (UK) operational requirements and (UK) specifications required of the final system to include platform, packaging and personnel. This should be as close to mission operation conditions as circumstances allow.

Prototype	A physical or virtual model used to evaluate the technical feasibility or military utility of a particular technology, process or concept.
Relevant Environment	A testing environment that simulates the key aspects of the (UK) operational environment
Simulated (Operational Environment	Either: (a) a real environment that can simulate all the (UK) operational requirements and specifications required of the final system but not necessarily concurrently; or (B) a simulated environment that allows for testing of a virtual prototype. Used in either case to determines whether a developmental system meets the (UK) operational requirements and specifications of the final system.
Sub-System	A sub element of an overall system that can be bounded/defined in terms of functionality
System	All technical elements that can comprise the project operating as a single system to deliver a defined capability.