DEFFORM 315
CONTRACT DATA REQUIREMENTS

CDR 001 – Codification Data Report

1. Contract Number	2. CDR Number	3. Data Category	4. Contract Delivery Date
ARTYSYS/00270	001	a. Codification Data Report	See Schedule Item

5. Equipment/Equipment Sub-system Description	6. General Description of Data Deliverables
Man-portable Surveillance and Target Acquisition RADAR (MSTAR) Obsolescence Replacement Programme (ORP) System	**Codification Data Report** In accordance with: 6.1. Statement of Requirement at Annex A to the Contract. 6.2. Authority DID 12 at Annex B to the Contract. 6.3. DEFSTAN 00-600: Integrated Logistic Support (ILS). Requirement for MOD Projects. Issue 1, Dated 14 Apr 2018. 6.4. DEFSTAN 05-057: Configuration Management of Defence Materiel. Issue 7, Dated 28 July 2018.

7. Aims and Objectives for which data is required

7.1. The Codification Data Report is used by the Authority to ensure the disciplined NATO Codification process is implemented and adhered to. This process involves the Identification, Classification, Naming and Unique Numbering of stores that will/could enter the Authority's Joint Support Chain (JSC). This process is to ensure all Items of Supply can be identified and recorded in a uniform manner, Allied Codification Publication 1 (ACodP-1): NATO Manual on Codification 6.5 refers.

7.2. The selection of items requiring codification is based on Level of Repair Analysis (LORA) and Initial Provisioning List (IPL) submissions by the Contractor for agreement by the Authority. The Aims and Objectives of this Contract Data Requirement (CDR) therefore are to specify the data and information that the Contractor will provide to the Authority. This data is required to obtain NATO codification of an Item through the Authority's NATO Codification Bureau (NCB). All relevant agreed candidate Items of Supply are to be subject to screening before any Item is considered as a candidate for codification.

7.3. Full Description / Product Composition

7.4. The Contractor is to flow down this requirement to their sub-suppliers in relation to the product.

7.5. The Codification Report is to be submitted in agreement with the Authority and list each Item of Supply for codification in accordance with DEFCON 117, containing the following data elements:

7.5.1. Logistic Control Number (LCN), configuration control number of the item's relationship in the Equipment Breakdown Structure (EBS). This is whichever LCN configuration is used i.e. 'Functional' or 'Physical' breakdown.

7.5.2. The NATO Stock Number (NSN), where the Contractor has been able to establish that the item may previously have been codified via their local Codification Bureau. This will be regarded as a suggested NSN and will be subjected to validation by the Authority.

7.5.3. All known Service or other domestic numbers relating to the item, where applicable.

7.5.4. The NATO Commercial and/or Government Entity (NCAGE) or name, address and contact details of the Design Control Authority (DCA).

7.5.5. The item name appearing on the original drawing documentation.

7.5.6. The original manufacturer's name, address, and identifying reference, for items included in equipment that is not manufactured by the main Contractor, (i.e. a 'bought out' item). Including

NCAGE code if they have one.

7.5.7. The main Contractor's own reference (part or drawing number), where the item forms part of an equipment, or they have allocated their own part or drawing number to the equipment.

7.5.8. An indication of whether the item is:

7.5.8.1. As identified by the manufacturer's reference.

7.5.8.2. Of multi-manufacture and may be identified by more than one manufacturer's reference.

7.5.8.3. Of multi-manufacture, but has been especially selected by the designer who confirms that no other product is acceptable: The drawing identifying such an item must substantiate any such restriction.

7.5.8.4. Subject to additional qualification or quality assurance processes that are not inherent in the manufacturer's reference.

7.5.9. Any proprietary design rights, if known.

7.5.10. Physical and Operational Characteristic Data.

7.5.11. New or unique items that have already been codified and/or accepted for codification by the Authority are to be included in the Initial Provisioning List.

7.5.12. Any Hazardous items that require specialist handling will have a Hazard category code as defined in Store System 3 (SS3), listed below:

Hazard Code	Definition
0.0	Non Hazardous
2.1	Flammable Gas
2.2	Non Flammable Non Toxic gases
2.3	Toxic Gases
3	Flammable Liquid
4.1	Flammable Solid
4.2	Substance Liable to Spontaneous Combustion
4.3	Substance that in contact with water emit flammable gases
5.1	Oxidising Substance
5.2	Organic Peroxide
6.2	Toxic Substance
7A	Radioactive III
7B	Radioactive II
7C	Radioactive I
7X	Radioactive
8	Corrosive substance
9	Miscellaneous Dangerous Substance Article
9A	Hazardous store considered non dangerous for carriage
9B	Packaged Magnetised material with a field strength less than 0,195 ampere per metre (0.0021 Gauss) at a distance of 2.1 Meters (7 Feet)
9C	Asbestos Article Considered Non dangerous for carriage
??	Awaiting classification

7.6. Candidate items for codification are to be designated as either, 'Consumable', 'Repairable' or 'Limited' and include the proposed depth repair organisation details for items identified as 'Repairable'.

7.7. The report includes relevant drawings, technical information, specifications and physical characteristics to be used by the Contractor in the completion of the codification process, through the UK NATO Codification Bureau (UKNCB) for each unique candidate Item of Supply requiring codification, in accordance with DEFCON 117.

7.8. The Data supplied for candidate Items is to be validated by the Authority and therefore there will be repetition of submissions required from the Contractor. This will be based on responses from the Codification Authority seeking further clarification on the data required. The information supplied by the Contractor will only be used for codification purposes, in accordance with

DEFCON 117.

7.9. Data is to be recorded using a Microsoft Excel spreadsheet as detailed at Section 10 with drawings in a PDF format.

8. Intellectual Property Rights

8.1. **Applicable DEFCONs**

8.1.1 DEFCON 16 (Edn. 04/10) – Repair and Maintenance Information

8.1.2 DEFCON 117 (Edn. 10/13) – Supply of Information For NATO Codification and Defence Inventory Introduction.

8.2. **Special IP Conditions**

None

9. Update/Further Submission Requirements

9.1. Draft submission to cover long lead items to be delivered two months after Contract Award.

9.2. Final submission to be delivered eight months after Contract Award, in order for declaration of Logistic Support Declaration (LSD) in accordance with the Acceptance Process at Annex M to the Contract.

9.3. No further submissions anticipated, see Clause 7.8.

10. Medium of Delivery	11. Number of Copies
10.1. Codification data in Electronic MS Office 2016 compatible format for draft and final versions. 10.2. Electronic Adobe PDF format for draft drawings to supplement codification data, where required. 10.3. Draft and Final versions to be submitted on optical media in agreed format, appropriate to classification, as per 10.1 and 10.2 above. 10.4. Additional hardcopy for final versions.	Two sets shall be provided to the Authority (one set being deemed for the Authority's Master Library and one set for the verification of all documents necessary to meet the requirements, referenced DEFSTANs and other referenced documents specified in Section 6).

CDR 002 – Technical Documentation

1. Contract Number	2. CDR Number	3. Data Category	4. Contract Delivery Date
ARTYSYS/00270	002	Repair, Maintenance and Operation Information	See Schedule Item

5. Equipment/Equipment Sub-system Description	6. General Description of Data Deliverables
Man-portable Surveillance and Target Acquisition Radar (MSTAR) Obsolescence Replacement Programme (ORP) System	**Technical Documentation** In accordance with: 6.1. Statement of Requirement at Annex A to the Contract. 6.2. Authority DID 16 at Annex B to the Contract. 6.3. DEFSTAN 00-600: Integrated Logistic Support (ILS). Requirement for MOD Projects. Issue 1, Dated 14 Apr 2018. 6.4. DEFSTAN 00-601: MOD Business Rules - Contracting for Technical Documentation. Issue 1, Dated 14 Oct 2018.

7. Aims and Objectives for which data is required

7.1. Operation of the equipment by or for the Services.

7.2. Level 1 maintenance of the equipment by or for the Services.

7.3. User manuals for operation of System during User Acceptance Test (UAT)

7.4. As part of the Trials Training Pack, the Contractor is to provide the necessary draft User Manuals to enable the Authority to operate the MSTAR ORP System safely during the UAT, including relevant warnings and cautions.

7.5. Technical Documentation

7.6. The purpose of this CDR is to provide the Authority with the technical Information required by the User, to operate and maintain the equipment in a safe manner and in accordance with the Contractor's recommendations, sustaining Availability requirements. The Army Equipment Support Publication (AESP) information categories that are applicable to the equipment will be derived from the outputs of the Contractor's Support Analysis, in agreement with the Authority.

7.7. The MSTAR ORP AESP OCTAD suite 5840-C-200 consists of the following categories 101, 111, 201, 303, 523, 533, 601, 711, 741 and 751. Furthermore, the Tripod Kit, Radar, Ground Surveillance is covered by 5855-F-100 but limited to the category of 201.

7.8. The in-scope categories of Technical Documentation to be delivered by the Contractor, as specified in Section 9, will be subject to review and verification by the Authority as part of the Support Analysis process. The Equipment Support Policy Directive (AESP category 111) is the responsibility of the Authority. The Contractor is also required to deliver an Inspection Report to enable the Authority to conduct receipt in-inspections of the MSTAR ORP System following manufacture. The Authority will produce the ESPD based on the Inspection Report delivered by the Contractor.

7.9. Updated/New AESP Technical Documentation for MSTAR ORP will use AESP OCTAD series of 5840-C-300.

7.10. The Contractor will supply a complete set of the required updated Technical Documentation, as specified in Section 9, for the Authority to verify and validate prior to publishing on Technical Documentation Online (TDOL).

7.11. Full Description / Product Composition

7.12. Technical Documentation will use Army Equipment Support Publication (AESP) format. Guidance is provided in the reference documents listed in the Authority's ILS Plan.

7.12.1. AESPs incorporate electronic, index and reference linking in the production of each final version Adobe PDF formatted document and have Pagination Instructions for each separate

deliverable detailing Left and Right Pages and the printing details for by each page throughout the AESP.

7.12.2. All Technical Documentation are to be subject to Validation and Verification (user/maintainer demonstrations) prior to acceptance by the Authority at the formal Logistic Support Committee (LSC) in accordance with the Acceptance Process at Annex M to the Contract.

7.13. Individual documents are to be maintained by the Contractor throughout the MSTAR ORP's life as specified in the Contractor's Technical Documentation Management Plan (TDMP), and in accordance with Section 9 of this CDR.

7.14. Technical Documentation will be subject to annual reviews and will be validated by the Authority prior to acceptance. Documentation will be subjected to initial verification by the Authority and include full validation by the User community prior to final acceptance of any technical publication by the Authority. It is anticipated full validation will be performed during the User Acceptance Test (UAT).

7.15. The outputs of the Contractor's Support Analysis (SA) may identify changes or creation of activities, processes and/or controls, which are to be discussed with the Authority prior to implementation. All updates are to be in agreement with the Authority. Other supporting evidence that will affect the content of the Documentation are the results of Failure Modes, Effect Criticality Analysis (FMECA), Level of Repair Analysis (LoRA) and maintainability assessments, which will be subject to review at the Engineering Judgement Panel.

7.16. Technical Documentation will contain:

7.16.1. Information required for the Authority to perform equipment operational planning and materiel assessments for use in a particular environment and/or situation, enabling the forecast of support required to repair and maintain the equipment throughout its planned life.

7.16.2. User Operator Instructions detailing how the equipment is used, maintained and managed by the User/Operator.

7.16.3. The technical specification, design, operation and function of the equipment.

7.16.4. Technical guides for the User and Maintainer in locating and diagnosing a failure to the specific equipment or component that has failed.

7.16.5. Detail how a repair, function is to be performed including supporting diagrams and drawings to ensure all instructions are clear and easy to follow by the User and Maintainer.

7.16.6. The technical standard of acceptable tolerances for the inspection and repair including the sentencing of the equipment and associated components.

7.16.7. Detail any required tools, spares, facilities, safety instructions and support Documentation required for the operational use and maintenance of the equipment.

7.16.8. Detail corrective and scheduled maintenance tasks and activities to be performed by the User, Level 1 Maintainer.

7.16.9. Detail User and Maintainer parts either as part of Complete Equipment Schedule (CES) or for detailing as part Illustrated Parts Catalogue (IPC).

7.16.10. Details how a modification is embodied by the User and/or Maintainer where the equipment is agreed by the Authority to require modification after product design freeze. Modifications also include general instructions relating to part changes that are outside of the parts catalogue/CES. Modifications to equipment (Post Design Services) and Technical Documentation are to be actioned via the Task Authorisation Form (TAF) mechanism and are then subject to the TAF process as described in the Terms and Conditions of the Contract.

8. Intellectual Property Rights

8.1 Applicable DEFCONs

8.1.1 DEFCON 15 (Edn. 02/98) – Design Rights and Rights to Use Design Information
8.1.2 DEFCON 16 (Edn. 04/10) – Repair and Maintenance Information
8.1.3 DEFCON 21 (Edn. 04/10) – Retention of Records

8.2 Special IP Conditions

None

9. Update/Further Submission Requirements

9.1. Draft User Manuals to be delivered two months after Contract Award, in order to be used on UAT.

9.2. Draft submission of updated Technical Documentation to be delivered four months after Contract Award.

9.3. Final submission of updated Technical Documentation to be delivered eight months after Contract Award, to enable declaration of LSD in accordance with the Acceptance Process at Annex M to the Contract.

9.4. In the event of a change in policy or process, incidents being recorded, or Form 10s raised, Technical Documentation will be subject to annual reviews by the Authority.

9.5. There are no anticipated updates of the Technical Documentation throughout life of the MSTAR ORP System. Changes to be tasked via the Task Authorisation Form (TAF) mechanism, as specified in the Schedule of Requirements.

10. Medium of Delivery

10.1. Minimum of draft hardcopy User Manuals to enable the Authority to operate the System safely during the UAT.Electronic (MS Office 2016 compatible format for draft versions)

10.2. Electronic (MS Office 2016 compatible format for draft and final versions)

10.3. Final version in Adobe PDF compatible format.

10.4. Draft and Final versions to be submitted on optical media in agreed format, appropriate to classification, as per 10.1., 10.2. and 10.3. above.

10.5. Additional hardcopy for final versions.

11. Number of Copies

FT – Three Electronic Sets:

Two sets shall be provided to the Authority (one set being deemed for the Authority's Master Library and one set for the verification of all documents necessary to meet the requirements, referenced DEFSTANs and other referenced documents specified in Section 6).

CDR 003 – Training Pack

1. Contract Number	2. CDR Number	3. Data Category Operation Maintenance/Repair/ Reconditioning	4. Contract Delivery Date
ARTYSYS/00270	003		See Schedule Item

5. Equipment/Equipment Sub-system Description	6. General Description of Data Deliverables
Man-portable Surveillance and Target Acquisition Radar (MSTAR) Obsolescence Replacement Programme (ORP) System	**Training Pack – Trials and User Operator, including Level 1 Maintenance** In accordance with: 6.1. Statement of Requirement (SOR) at Annex A to the Contract. 6.2. Training Needs Analysis (TNA) Report, Plan and Report 07 at Annex C to the Contract.

7. Aims and Objectives for which data is required

7.1. Operation of the equipment by or for the Services.

7.2. Level 1 maintenance of the equipment by or for the Services.

7.3. Trials Training Pack

7.4. The Contractor is to provide a Trials Training Pack for the Pre-User Trial Training Course, in accordance with the Training Acceptance Process at Annex M to the Contract.

7.5. The pack covers the conversion training that is to be delivered to up to 15 Users (all of whom will be experienced in operating the Mk IV System) that are to conduct the User Acceptance Test (UAT) with the First of Class MSTAR ORP Systems.

7.6. T3 Training Pack

7.7. The purpose of this CDR is to provide the Authority with the training Information required by the Training Community to conduct Defence Systems Approach to Training (DSAT) compliant Train the Trainer (T3) courses, with supporting information for each associated lesson plan. Guidance on DSAT can be found in Joint Services Publication (JSP) 822: Defence Direction and Guidance for Training and Education - Part 1, Dated Mar 2017.

7.8. This CDR is to enable the Training Community to conduct lesson plans with the required technical and operational/functional procedures, in order for the User and Maintainer to operate and maintain the equipment in a safe manner. All procedures shall be in accordance with the Authority's Training and Concept of Use doctrine.

7.9. Validation and Verification is to be performed by the Contractor on all training media, prior to the Acceptance Panel, as this will form the Authority's validation of the Contractor's Training Needs Analysis (TNA).

7.10. The Contractor should conduct a trained output requirement review to ensure, based on the Role Performance Statements (RPS) and Formal Training Statements (FTS), the training requirement is still fully met in accordance with the Role Analysis Review (RAR). If further needs analysis is required in relation to any additional roles, the Contractor must maintain an audit trail from RPS to FTS by updating any task or Training Objective (TO) performances where necessary. The validity of the training categories must be checked in accordance with the Early Training Analysis (ETA) report. The Contractor should seek final approval and gain endorsement of the final FTS versions before designing the Training Package. All of the work above should be considered by the Contractor whilst producing their work plan and costings.

7.11. The Train the Trainer (T3) pack contains all required lesson plans which will be agreed with the Authority. This will form a generic training pack that will be tailored by the Training Community [redacted].

7.12. Full Description / Product Composition

7.13. The Contractor will produce the following Course Design products in the form of a DSAT compliant Course Training Package:

7.13.1. The Contractor is to produce separate learning scalars using TIS TAD (TAFMIS) numbering system scheme 2, to be agreed as part of the contract, for each training solution in accordance with the endorsed FTSs:

7.13.1.1. Training Objectives (TOs).

7.13.1.2. Enabling Objectives (EOs).

7.13.1.3. Key Learning Points (KLPs).

7.13.2. A detailed Knowledge Skills and Attitude (KSA) analysis must be conducted to develop the required training content to support all TOs and EOs.

7.13.3. The Contractor will use all reference material specified within the FTSs against the FTS standards whilst developing the training content down to appropriate granularity.

7.13.4. The Contractor will produce a Course Directive for each Course Training Package providing the required information (Joint Effects Training Development Team (JETDT) will provide a template).

7.13.5. The Contractor will produce a separate block syllabus for each Training Package containing instructional, practice, assessment and administration periods down to EO level (JETDT will provide template). Each block syllabus will be populated to the level which fits the final training categories in the FTSs and, as a result of Difficulty, Importance and Frequency (DIF) analysis, conducted at RPS level. The Contractor will consult the RPS standards to ensure the correct training categories are fully met for each FTS standard (JETDT to advise).

7.13.6. The Contractor will produce Learning Specifications (LSpecs), using the information contained within the learning scalars. The Contractor will allocate TOs and EOs with their respective KLPs to LSpecs and populate all editor fields within the TIS TAD (TAFMIS) application. The learning specifications must be structured to reflect a logical lesson delivery sequence.

7.13.7. The Contractor will produce course specific Assessment Strategies (AStrats) for all Course Training Packages (JETDT will provide a template).

7.13.8. The Contractor will produce course specific Assessment Specifications (ASpecs), at TO and EO levels for all Training Packages (JETDT will provide template). All Training Package ASpecs must be accompanied by Practical Marking Guides (PMGs) at TO and EO level which will contain additional safety and underpinning knowledge-based questions.

7.13.9. The Contractor will insert an amendment record sheet into each Course Training Package for audit purposes (template from JETDT).

7.13.10. The Contractor will produce a Student Summative Assessment Record (SSAR) sheet for each Training Package (template to be provided by JETDT). This is to support the [redacted] Internal Validation (InVal) records.

7.14. The Contractor is to ensure the most appropriate, effective and efficient selection of training Methods and Media is identified, including any constraints that may limit training options. The Contractor will draw on the Methods and Media options within the Training Options Analysis (TOA) and the Early Training Analysis (ETA) reports. After the appropriate methods and media have been selected, it must be specified within the learning specifications against each TO/EO. Content and Media format to be agreed by [redacted] Subject Matter Expert (SME) at the formal Training Steering Group (TSG) in accordance with the Acceptance Process at Annex M to the Contract.

7.15. The Contractor will supply the content of the Training Pack based on agreed Technical Documentation, with supplementary screen shots and step-by-step diagrams/photographs in the describing of each lesson plan relating to the function/maintenance activity.

7.16. The Contractor will provide T3 Course students the following documentation at the end of the T3 Course in order to allow students to deliver their own cascade training, in unit:

7.16.1. T3 instructional courseware to include Course Training Package and lesson plans (to incorporate any multimedia teaching aids).

8. Intellectual Property Rights

8.1 Applicable DEFCONs

8.1.1 DEFCON 16 (Edn. 04/10) – Repair and maintenance InformationDEFCON 16 (Edn. 04/10) - Repair and maintenance Information

8.1.2 DEFCON 21 (Edn. 04/10) – Retention of Records

8.2 Special IP Conditions

None

9. Update/Further Submission Requirements

9.1. Trials Training Pack for two months after Contract Award, in order to be used on UAT.

9.2. Draft T3 Training Pack for four months after Contract Award.

9.3. Final T3 Training Pack for eight months after Contract Award, to enable declaration of Ready For Training Declaration (RFTD).

9.4. No updates anticipated after RFTD.

10. Medium of Delivery	11. Number of Copies
10.1. Minimum of draft hardcopy Trials Training Pack prior to Authority's UAT. 10.2. Electronic (MS Office 2016 compatible format for draft and final versions). 10.3. Final version in Adobe PDF compatible format. 10.4. Draft and Final versions to be submitted on optical media in agreed format, appropriate to classification, as per 10.2. and 10.3. above. 10.5. Additional hardcopy for final versions.	Two sets shall be provided to the Authority (one set being deemed for the Authority's Master Library and one set for the verification of all documents necessary to meet the requirements, referenced DEFSTANs and other referenced documents specified in Section 6).

CDR 004 – Manufacturing Data Pack

1. Contract Number	2. CDR Number	3. Data Category	4. Contract Delivery Date
ARTYSYS/00270	004	Manufacture Operation	See Schedule Item

		Interface information	

5. Equipment/Equipment Sub-system Description	6. General Description of Data Deliverables
Man-portable Surveillance and Target Acquisition Radar (MSTAR) Obsolescence Replacement Programme (ORP) System	**Manufacturing Data Pack** In accordance with: 6.1. Statement of Requirement (SOR) at Annex A to the Contract. 6.2. Authority DID 27 at Annex B to the Contract. 6.3. DEFSTAN 00-600: Integrated Logistic Support (ILS). Requirement for MOD Projects. Issue 1, Dated 14 Apr 2018. 6.4. DEFSTAN 05-010: Product Definition Information. Issue 7, Dated 14 Jun 2018.

7.1. Aims and Objectives for which data is required

7.1.1. Future competitive tendering for manufacture and supply of equipment

7.1.2. Operation of the equipment by or for the Services.

7.1.3. Where modifications are required to enable the articles to interface with equipment supplied by a third party.

7.1.4. The Manufacturing Data Pack includes that data which defines the physical geometry, material and acceptance/conformance criteria of the article and its components, for use by MOD when awarding competitive contracts for the manufacture, assembly and acceptance of the articles described.

7.2. Full Description / Product Composition

7.2.1. All data to be supplied as part of the Manufacturing Data Pack pursuant to a Contract Data Requirement is to be prepared in accordance with DID 27.

8. Intellectual Property Rights

8.1 Applicable DEFCONs

8.1.1 DEFCON 15 (Edn. 02/98) – Design Rights and Rights to Use Design Information
8.1.2 DEFCON 21 (Edn. 04/10) – Retention of Records

8.2 Special IP Conditions

None

9. Update/Further Submission Requirements

9.1. Draft to be delivered two months after Contract Award.

9.2. Final version to be delivered eight months after Contract Award, to enable declaration of LSD in

<table>
<tr><td colspan="2">accordance with the Acceptance Process at Annex M to the Contract.</td></tr>
<tr><td>10. <u>Medium of Delivery</u>

10.1. Electronic (MS Office 2016 compatible format) for draft and final versions.

10.2. Final version in Adobe PDF compatible format.

10.3. Draft and Final versions to be submitted on optical media in agreed format, appropriate to classification, as per 10.1. and 10.2. above.

10.4. Additional hardcopy for final versions.</td><td>11. <u>Number of Copies</u>

Two sets shall be provided to the Authority (one set being deemed for the Authority’s Master Library and one set for the verification of all documents necessary to meet the requirements, referenced DEFSTANs and other referenced documents specified in Section 6).</td></tr>
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