DATA ITEM DESCRIPTION
Title: DIMINISHING MANUFACTURING SOURCES AND MATERIAL SHORTAGES (DMSMS) LIFE CYCLE MANAGEMENT DATA

Number: DI-MGMT-82274
AMSC Number: 10040
DTIC Applicable: No
Preparing Activity: OSD-SO
Applicable Forms: N/A

Approval Date: 20190702
Limitation:
GIDEP Applicable: No
Project Number: MGMT-2019-012

Use/relationship: Data delivered using this Data Item Description (DID) will be used to support DMSMS management activities. Those activities may require collecting Bill of Materials, DMSMS notifications, DMSMS case data, DMSMS health information, DMSMS cost and budgeting information, and DMSMS case mitigation data as a part of the Department of Defense's (DoD) Total System Life Cycle Management responsibilities.

a. The data may be obtained during any life cycle phase.

b. The word "item" is used throughout the document to refer to anything in the system and includes parts, software, materials, chemicals, etc.

c. This DID contains the format, content, and intended use information for the data product resulting from the work task described in the solicitation.

d. This DID should be tailored in the Contract Data Requirements List (CDRL) to include only the required specific data elements from Table 1. Examples of specific uses for the data and the data elements that could be used for each purpose follows:

(1) Proactively monitored parts list data communicates the detailed results of the contractor's risk based analysis of all items to determine those they plan to monitor for obsolescence. (Table 1 data elements 1–5, 7–11, 15–19, 24–25).

(2) Bill of Materials (BOM) data can be used to establish the production status of items used in a system. The BOM will also provide DMSMS managers essential information that enables the identification, forecasting, mitigation, and management of hardware and software obsolescence. The data will be used in DMSMS forecasting tools to enable standard and efficient sharing of information on common items. (Table 1 data elements 1–26).

(3) DMSMS product change and discontinuance notification data can be used to proactively manage DMSMS issues. (Table 1 data elements 1–3, 11, 15–19, and 44–53).

(4) DMSMS case data can be used to obtain DMSMS/Obsolescence active case information for items identified as an obsolescence or DMSMS issue, as well as capturing DMSMS metrics. DMSMS Case Management Data provides essential information that enables

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the identification, mitigation, and management of hardware and software obsolescence issues. (Table 1 data elements 1–19, and 22–46).

(5) The DMSMS case mitigation, cost, and budgeting data can be used to determine optimal mitigation strategies in the development of DMSMS-related budgets. (Table 1 data elements 1, 2, 9-12, 15, 24, 25, and 27-44).

Requirements:

1. Reference Documents. The applicable issue of the documents cited herein, including their approval dates and dates of any applicable amendments, notices, and revisions, shall be as specified in the contract.

2. References

a. Code of Federal Regulations (CFR) 48 CFR 2.101 – Definitions. Available from the Government Publishing Office, https://www.govinfo.gov/app/details/CFR-2016-title48-vol1/CFR-2016-title48-vol1-sec2-101.

b. American Society of Mechanical Engineers (ASME) Y14.44-2008 Reference Designations for Electrical and Electronics Parts and Equipment. Available from http://www.asme.org/.

c. ASME Y14.100-2017 Engineering Drawing Practices. Available from http://www.asme.org/.

3. Format. The DMSMS Life Cycle Management Data shall be provided in tabular format with the Field Names in Table 1 as the column labels. The data shall be provided as an electronically editable, machine-readable, Comma Separated Values (CSV) text file with text fields enclosed in double quotation marks.

4. Content. The data shall contain the information specified by the contract as referenced by the Data Element Numbers in Table 1. The data shall meet the requirements as specified in the Definition, Notes and Instructions, and Data Type columns of Table 1. The indentured path to the system level shall be identified using the item/Next Higher Assembly (NHA) method detailed in Table 1. All fields designated by the contract shall be included. Fields for which data is not available and which are not designated as “Required” in the Notes and Instructions column of Table 1 shall be left blank. The data shall be included to the lowest indenture level (component level) for all items, including subcontractor items, which are not commercial items, as defined in 48 CFR 2.101 – Definitions.

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Table 1 Data Elements

Data Element Number	Field Name	Definition	Notes and Instructions	Data Type
1.	OEM Item Number	The item number assigned by the Original Equipment Manufacturer (OEM). This may be the same as the Manufacturer's Item Number (Data Element 17) but more often than not it is different. Sometimes referred to the Configuration Part Number or the Drawing Number.	Required.	Alphanumeric
2.	OEM Name	The full legal name of the entity that is providing the item referenced in Data Element 1 to the government. Sometimes referred to as the Prime Integrator or Prime.	Required.	Alphanumeric
3.	OEM CAGE	Commercial and Government Entity (CAGE) code of the OEM referenced in Data Element 2.	Required.	Alphanumeric (5)
4.	Revision Designator	The revision number or letter of the item referenced in Data Element 1.	Required if assigned.	Alphanumeric
5.	Software / Firmware Version	The designator assigned to the version of software / firmware used on the item referenced in Data Element 1.	Required for all items containing software or firmware.	Alphanumeric
6.	Indenture Level	A number which identifies an item's relative complexity as an assembly or function. This number represents the specific level of the item referenced in Data Element 1 within the system.	Required. Starts with the top level of the system as one.	Numeric
7.	Reference Designator	A designation used to identify and locate the item referenced in Data Element 1.	Required if assigned.	Alphanumeric

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Data Element Number	Field Name	Definition	Notes and Instructions	Data Type
		See ASME Y14.44-2008, section 1.7 for a complete definition.		
8.	Find Number	The reference number assigned to the item referenced in Data Element 1 in lieu of the item's identifying number on the drawing and entered as a cross-reference to the item number of the parts lists where the item name and identification number are given. See ASME Y14.100, appendix D, D-8 for a complete definition.	Required if assigned.	Alphanumeric
9.	NHA Item Number	The OEM Item Number of the parent assembly of the item referenced in Data Element 1. If the referenced item is software or firmware then the NHA is the item the software is used on.	Required for all items except the top level assembly.	Alphanumeric
10.	NHA CAGE	CAGE code of the OEM of the NHA referenced in Data Element 9.	Required for all items except the top level assembly.	Alphanumeric (5)
11.	Nomenclature	The name drawing title of the item referenced in Data Element 1. See ASME Y14.100, appendix C, C-4 for further information.	Required for all items.	Alphanumeric
12.	Quantity	The count of the item referenced in Data Element 1 per NHA.	Required for all items.	Numeric
13.	Provisioning Status	The item referenced in Data Element 1 has been provisioned in a Services supply system (Yes or No).	Answer Yes or No.	Text (Yes, No)
14.	APL, AEL, or RIC	Allowance Parts List (APL), Allowance Equipage Code (AEC), or Repairable Identification Code (RIC) for the item referenced in Data Element 1.	Required if applicable. Applies to Navy parts only.	Alphanumeric

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Data Element Number	Field Name	Definition	Notes and Instructions	Data Type
15.	NSN	National Stock Number (NSN) of the item referenced in Data Element 1.	Required if the item has a NSN assigned.	Alphanumeric
16.	COG	The cognizance (COG) Code of the item referenced in Data Element 1. The COG Code is a two-item alphanumeric designator used by the Navy to provide supply management information.	Required if assigned.	Alphanumeric
17.	Manufacturer's Item Number	The item number assigned by the actual manufacturer of the item referenced in Data Element 1. This number will be used to monitor the item for obsolescence issues.	Required. This number may be the same as the item referenced in Data Element 1 if the item is manufactured by the OEM.	Alphanumeric
18.	Manufacturer's Name	The full legal name of the entity that actually manufacturers the item referenced in Data Element 1.	Required.	Alphanumeric
19.	Manufacturer's CAGE	The CAGE code of the entity that actually manufacturers the item referenced in Data Element 1.	Required.	Alphanumeric (5)
20.	Manufacturer's Address	The physical address of the manufacturer of the item referenced in Data Element 1, including country.	Required.	Alphanumeric
21.	Manufacturer's Website	The web address of the manufacturer of the item referenced in Data Element 1.	Required if the manufacturer has a website.	Alphanumeric
22.	Alternate For	The OEM item number of the alternate for the item referenced in Data Element 1.	Required if the item referenced in Data Element 1 is an alternate for another item in the BOM.	Alphanumeric

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Data Element Number	Field Name	Definition	Notes and Instructions	Data Type
23.	Monitoring Status	Identifies whether the item referenced in Data Element 1is being proactively monitored for DMSMS issues.	Required for all items. Responses are Yes or No. Yes indicates the item is monitored. No indicates that the item is not monitored	Text (Yes, No)
24.	Item Class	Identifies whether the item referenced in Data Element 1 is Commercial Off the Shelf (COTS) or a Nondevelopmental Item (NDI).	Required if the item is an assembly considered COTS, NDI. See the definitions section of 48 CFR 2.101 for definitions. Responses are: COTS or NDI.	Text (COTS, NDI)
25.	Item Type	Enter the type of the item referenced in Data Element 1 based on the following: An assembly is comprised of components and potentially other assemblies, e.g. a circuit card or a transmission. A component is a single item of manufacture used to make an assembly, e.g. a microcircuit or a screw. Software is an item of a computer system that consists of data or computer instructions, in contrast to the physical hardware from which the system is built. Material is the products used manufacture the assembly, e.g. wire, fiberglass, steel, glue.	Required. Enter Component, Assembly, Material, or Software. Firmware is not reported here, it is considered as an item of the hardware it is associated with.	Text (Component, Assembly, Material, Software)
26.	Sources	The count of manufacturing sources for the item referenced in Data Element 1.	Required.	Numeric
27.	Annual Demand Rate	The quantity of the item referenced in Data Element 1 expected to be used for	Required. Based on actual data if available. Projected data may be used otherwise.	Numeric

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Data Element Number	Field Name	Definition	Notes and Instructions	Data Type
		production or repair of the end item deliverable(s) per year.		
28.	MTBF	Mean Time Between Failure (MTBF) of the item referenced in Data Element 1. MTBF refers to the average amount of time that a device or product functions before failing.	Required if known.	Numeric (Hours)
29.	Lead Time	The time between the manufacturers' receipt of an order for the item referenced in Data Element 1 and the delivery of the product.	Required if known.	Numeric (Months)
30.	Case Number	The DMSMS case number assigned by the contractor for the DMSMS issues related to the item referenced in Data Element 1.	Required if assigned.	Alphanumeric
31.	Government Case Number	The DMSMS case number for the item referenced in Data Element 1 assigned by the government.	Required if known.	Alphanumeric
32.	Case Status	The current status of the case referenced in Data Element 30 using the following terms: Open: The case is in process. Hold: The case is unresolved, but not currently in process. Resolved: A solution for the case has been approved but has not been implemented. Closed: The resolution for the case has been fully implemented.	Required if a Case Number has been assigned for the item referenced in Data Element 1. Choose from Open, Hold, Resolved, or Closed	Text (Open, Hold, Resolved, or Closed)

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Data Element Number	Field Name	Definition	Notes and Instructions	Data Type
33.	Case Status Date	The date that the Case Status Description (Data Element 34) was updated.	Required if a Case Number has been assigned for the item referenced in Data Element 1.	Date (mm/dd/yyyy)
34.	Case Status Description	Describe the current status of the case referenced in Data Element 30 providing amplifying remarks related to impact, mitigation plans, and/or change in case status.	Required if a Case Number has been assigned for the item referenced in Data Element 1	Text
35.	Statement of Impact	Describe the DMSMS impact the issue related to the case referenced in Data Element 30 will have on the affected system if the issue is not resolved. DMSMS impact is the inability to produce or sustain the NHA because of a known or Projected DMSMS issue.	Required if a DMSMS issue has been identified for the item referenced in Data Element 1.	Text
36.	Impact Date	The impact date is the estimated date that the impact described in Data Element 35 will occur.	Required if a DMSMS issue has been identified for the item referenced in Data Element 1.	Date (mm/dd/yyyy)
37.	Proposed Mitigation	The proposed mitigation strategy to resolve the DMSMS issue related to the case referenced in Data Element 30. Provide alternate mitigation strategies if appropriate. Proposed mitigations shall consider the planned lifecycle of the system and planned upgrades or refreshes.	Required if a DMSMS issue has been identified for the item referenced in Data Element 1.	Text
38.	Proposed Mitigation Schedule	Provide planned or projected start and finish dates for the mitigation described in Data Element 37.	Required if a DMSMS issue has been identified for the item referenced in Data Element 1.	Date (mm/dd/yyyy)

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Data Element Number	Field Name	Definition	Notes and Instructions	Data Type
39.	Proposed Mitigation Cost	Provide the estimated cost of the proposed mitigation described in Data Element 37.	Required if a DMSMS issue has been identified for the item referenced in Data Element 1.	Numeric (Dollars)
40.	Proposed Mitigation Result	The projected number of years that the system can be sustained based on the mitigation described in Data Element 37.	Required if a DMSMS issue has been identified for the item referenced in Data Element 1.	Numeric (Years)
41.	Assumptions	The assumptions used in determining the Proposed Mitigation Cost (Data Element 39) and Proposed Mitigation Result (Data Element 40).	Required if a DMSMS issue has been identified for the item referenced in Data Element 1.	Text
42.	Confidence	The quantitative assessment of the confidence of the Proposed Mitigation Cost (Data Element 39)	Required if a DMSMS issue has been identified for the item referenced in Data Element 1. Expressed as a percent of confidence with 0% being the least and 100% being the most confident.	Numeric (Percent)
43.	Stock on Hand	The quantity of the item referenced in Data Element 1 owned by the contractor and designated for use on this contract.	Required.	Numeric
44.	Status	The current DMSMS status of the item referenced in Data Element 1. Choose from: In production, Discontinued, or Pending Discontinuance.	Required. Choose from: In production, Discontinued, or Pending Discontinuance.	Text (In production, Discontinued, Pending Discontinuance)

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Data Element Number	Field Name	Definition	Notes and Instructions	Data Type
45.	EOL	The End of Life (EOL) of the item referenced in Data Element 1. The EOL is the estimated last production date (month/year) of the referenced item. This date is provided by some commercial sources for electronic items, can be found in some manufacturer's product roadmaps, or may be obtained by direct contact with the manufacturer.	Required. For estimates which, in the opinion of the contractor, are not firm use January as the month.	Date (mm/yyyy)
46.	EOL Type	EOL Type establishes whether the EOL (Data Element 45) originated from the item manufacture or was based on a prediction.	Choose from: Known or Predicted	Text (Known, Predicted)
47.	Date of Notification	Date the Product Discontinuance Notice (PDN) or Product Change Notice (PCN) was issued. If there is no PDN or PCN, use the date the DMSMS issue was discovered by the contractor.	Required if available	Date (mm/dd/yyyy)
48.	Notification Number	The Manufacturer's number for the notification in Data Element 47.	Required if available	Alphanumeric
49.	Notification Description	The description of the notification in Data Element 47 that explains its purpose. For example, discontinued production, planned end of life, product change, transferred to another company, etc.	Required if available	Text
50.	Recommended Replacement Item	The item that the manufacturer recommends as a suitable replacement.	Required if available	Text

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51.	Affected System	The System that is affected by the PDN or PCN in Data Element 47.	Required if available	Text
52.	Last Order Date	The date when the last order for the item referenced in Data Element 1 will be accepted	Required if available	Date (mm/dd/yyyy)
53.	Last Ship Date	The last date the item referenced in Data Element 1 will be shipped.	Required if available	Date (mm/dd/yyyy)

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