

DATA ITEM DESCRIPTION

Title: BILL OF MATERIALS (BOM) FOR LOGISTICS AND SUPPLY CHAIN RISK MANAGEMENT

Number: DI-PSSS-81656B

AMSC Number: N9724

DTIC Applicable: N/A

Preparing Activity: SA

Applicable Forms: N/A

Approval Date: 20160901

Limitation: N/A

GIDEP Applicable: No

Project Number: PSSS-2016-021

Use/relationship: The Bill of Materials (BOM) will provide information that can be used to establish the production status of parts used in a system. The BOM will also provide Diminishing Manufacturing Sources and Material Shortages (DMSMS) management essential information that enables the identification, forecasting, mitigation, and management of Hardware and Software obsolescence as a part of the Department of Defense (DoD) Program Manager's Total System Life Cycle Management responsibilities. The data will be used in DMSMS forecasting tools to allow for standard and efficient sharing of information on common items.

The BOM will also provide logisticians and supply chain risk managers with additional data they require to ensure supportability requirements and supply chain risks are identified or mitigated during the development of a system.

This Data Item Description (DID) contains the format, content, and intended use of information for the data product resulting from the work task described by the contract.

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

This DID supersedes DI-PSSS-81656A.

Requirements:

1. **Format.** The BOM shall be in a format similar to that of Figure 1.
2. **Content.** The BOM shall contain all of the information specified in Figure 1, with the path to the system level identified using the part/Next Higher Assembly method detailed in the table. All fields shall be included. Fields which do not require data shall be left blank. The information shall be included to the lowest indenture level (component level) specified in the contract

FIGURE – 1 Table 1: Field Definitions and Instructions

| Field Name | Definition | Notes and Instructions | Data Type |
|--------------------------------|---|--|---|
| OEM Part Number | The part number assigned by the Original Equipment Manufacturer (OEM). This may be the same as the Manufacturer's number but more often than not it is different. Sometimes referred to the Configuration Part Number or the Drawing Number | Required. Referred to as the "Referenced Part" hereafter | Alphanumeric |
| OEM Name | The full legal name of the entity that is providing the referenced part to the government. Sometimes referred to as the Prime Integrator or Prime | Required | Alphanumeric |
| OEM CAGE | Commercial and Government Entity (CAGE) code of the OEM | Required | Alphanumeric (5) |
| OEM's Address | The physical address of the part's OEM, including country | Required | Alphanumeric |
| OEM's Website | The web address of the part's OEM | Required when the OEM has a website | Alphanumeric |
| OEM's Facility Clearance Level | The level of security clearance the OEM's facility holds | Required | Alphanumeric (None, Confidential, Secret, Top Secret) |
| Revision Designator | The designator of the revision of the referenced part | Required if assigned | Alphanumeric |
| Software / Firmware Version | The designator assigned to the version of software / firmware used on the referenced part | Required for all parts containing software or firmware | Alphanumeric |
| Indenture Level | A number that represents the specific level of the top down structure specified on the Bill of Materials | Starts with the top level as one | Numeric |
| Reference Designator | A reference designator identifies the referenced part. ASME Y14.44-2008 and IEEE-315-1975 provide details for the proper configuration and use of reference designators. | Required if assigned | Alphanumeric |

| Field Name | Definition | Notes and Instructions | Data Type |
|---|---|--|---|
| Find Number | Find number refers to the ordinal number that gives an ID tag to the referenced part in a parts list (list of materials, bill of materials). | Required if assigned | Alphanumeric |
| NHA Part Number | The OEM Part Number of the referenced part's parent (Next Higher Assembly (NHA)). If the referenced part is software or firmware then the NHA is the item the software is used on | Required for all parts except the top level assembly | Alphanumeric |
| NHA CAGE | CAGE code of the OEM of the NHA | Required for all parts except the top level assembly | Alphanumeric (5) |
| Nomenclature | The name or designation of the referenced part | Required for all parts | Alphanumeric |
| Quantity | The count of the referenced part per NHA | Required for all parts | Numeric |
| NSN | National Stock Number (NSN) of the referenced part | Required if item has NSN assigned | Alphanumeric |
| COG | Cognizance (COG) Code: A two-part alphanumeric designator used by the Navy to provide supply management information | Required if assigned | Alphanumeric |
| Manufacturer's Part Number | The part number assigned by the actual manufacturer of the referenced item. This number will be used to monitor the part for obsolescence issues | Required (may be the same as the referenced part if the part is manufactured by the OEM) | Alphanumeric |
| Manufacturer's Name | The full legal name of the entity that actually manufactures the referenced part | Required | Alphanumeric |
| Manufacturer's CAGE | The CAGE code of the entity that actually manufactures the referenced part | Required | Alphanumeric (5) |
| Manufacturer's Address | The physical address of the part's manufacturer, including country | Required | Alphanumeric |
| Manufacturer's Website | The web address of the part's manufacturer | Required when the manufacturer has a website | Alphanumeric |
| Manufacturer's Facility Clearance Level | The level of security clearance the manufacturer's facility holds | Required | Alphanumeric (None, Confidential, Secret, Top Secret) |

| Field Name | Definition | Notes and Instructions | Data Type |
|--------------------------------|--|---|---------------------------------|
| Alternate For | The OEM part number of the item the referenced part is the alternate for | Required if the referenced part is an alternate to another part in the BOM | Alphanumeric |
| Assembly Type | Identifies whether the item is Commercial Off the Shelf (COTS), Non-Developmental Item (NDI), or Developmental Item (DI) | Required if the part is an assembly considered COTS, NDI, or DI. See the definitions section of 48 CFR 2.101 for definitions. | Alphanumeric (COTS, NDI, or DI) |
| Batteries | Indicates whether an item contains batteries. | Required. If the referenced part contains batteries and is a subassembly, its NHA should indicate that it also contains batteries | Yes / No |
| Service Bulletin Applicability | Information required to subscribe to service bulletin updates to the part's software or hardware | Required if the part will have service bulletins issued against it | Alphanumeric |

3. Media Requirement: The BOM shall be provided as an electronically editable, machine-readable, Comma Separated Values (CSV) text file with alphanumeric fields enclosed in double quotation marks.

End of DI-PSSS-81656B