
M12 – File Specification

A Proprietary Data Format for the Interchange of
Defense Transaction Data with
Mil-Pac Technology Software Products

Version 2.1

Includes:

Unique Identifier (UID) Data Element Specification



Introduction

The Mil-Pac M12 file format is designed to simplify data interchange between Mil-Pac Technology software products and other data systems. Its ASCII text-delimited format uses individual lines of text that contain data values identified by keywords. This format makes it possible for practically any system to generate a compatible data import file.

Version 2 of the M12 format focuses on specialization for Wide-Area Workflow (WAWF) transactions, and Mil-Std-129 barcode labeling. Mil-Pac support for Version 1 remains in place for legacy applications that generate DD250s in both paper and WAWF transaction format. While versions support WAWF, version 2 has been specialized for that purpose.

M12 files that go beyond the scope of this specification can be used to drive other packaging, labeling, shipping and invoicing applications. These applications may include data elements not defined by this specification.

General Requirements

The format requirements for the M12 file have been kept as simple as possible to facilitate compatibility with the greatest number of third-party systems. The file itself is a simple, unstructured ASCII file, capable of being generated by practically any software system.

An M12 file consists of multiple sections. The two sections contain document identification and contract/shipment information pertaining to the entire document. The remaining section describes individual line items. It contains a collection of data elements that may be repeated for each line item described.

A sample M12 file, compatible with the Mil-Pac DD-FormStation, is shown below. It will generate a DD250 with two line items. Note that the use of REM statements and indentation are not required, and are used here solely for readability.

Sample M12-Import/Export File

```

REM:          ----- DOCUMENT IDENTIFICATION -----
XREF:         02-24244-0001
FORMTYPE:    DD250
REM:          ----- SHIPMENT INFORMATION -----
PIIN:        DLA900-89-X-1234
SPIIN:       0012
SHIPNUM:     MPT0231
SHIPPED:     2005JAN23
FOB:         S
PRIME:       1HLD9\MIL-PAC\PO BOX 2066\RAMONA, CA 92065
SHIPFROM:    1HLD9\MIL-PAC\3914 MURPHY CYN\SAN DIEGO, CA 92123
ADMINOFF:    S0514A\DCMR\1223 DAGGET ST\SAN DIEGO, CA 92123
PAYOFC:     S0514A\DFAS\P.O. BOX 567252\COLUMBUS, OH 32556
SHIPTO:     N25622\NAVAL WEAPONS CENTER\PHILADELPHIA, PA 01322
MARKFOR:     \RECEIVING OFFICER\RATING DO-A7\NON-MILSTRIP
ACC-PT:     S
ORIG-CQA:   YES
INSP-OFC:   S0514A
TCN:        EY80069009X001XXX
METHSHIP:   5

REM:          ----- LINE-ITEM DETAIL -----
CLIN:       0001AA

```

```

NSN:          5998-01-227-1444
NOUN:         CIRCUIT CARD ASSEMB (DUAL IOE)
PN:           SM-E-819400
MILSTRIP:     EY80069009X001
QTY:          1
UI:           EA
UNITPRC:      2738.00
EXTDPRC:      2738.00
SN:           N0231

REM:          ----- ITEM NUMBER 2 -----
CLIN:         0007AF
NSN:          5998-01-307-3215
NOUN:         POWER SUPPLY
PN:           SM-E-822722
QTY:          2
UI:           EA
UNITPRC:      238.75
EXTDPRC:      477.50
SN:           PX2371
SN:           PX2398

```

Data Elements

The following tables define the M12 data elements for import into Mil-Pac products. Data elements fall into four categories of use:

Document Identification Elements – identify the document, the form into which the data flows and the purpose of the document

Contract / Shipment Data Elements – consist of data common to all items in a shipment or contract definition, such as the prime contractor and contract number.

Line-Item Data Elements – define each contract line item (CLIN) shipped, or to be shipped.

Miscellaneous Elements – housekeeping and generalize data elements that may appear in more than one section.

The sections above must appear in the order listed above, except as noted. The data elements within a section may appear in any order, except as noted. The following is a list of specific rules defining the format of M12 files:

1. Each line must start with the name of a data item, referred to as the data **element** or **keyword**. Blank lines are allowed.
2. Lines are limited to 256 characters in length.
3. Lines must be terminated with a carriage-return and linefeed, in that order.
4. Keywords must be followed by at least one character of white-space, either a space or tab (except in the case of **flag** elements, described below). Optionally, keywords may be immediately followed by a colon character.
5. Keywords are not case sensitive. However, it is recommended that upper-case be used for data values as that is a requirement in many DOD applications.
6. Line Item Detail sections must start with the CLIN keyword element.
7. The SN keyword, if used, must appear after every other line item element, except NOTE.
8. Keywords may appear in any order within a given section, unless otherwise stated.
9. Except as noted, each keyword should appear only once within an individual section.

By definition, if duplication occurs, the most recent value is used.

Data Types

The following data types are used in the definitions of the expected data values:

- An** Alpha and/or numeric characters, up to 'n' characters, including dashes and other punctuation.
- Nn** A data value limited to numeric digits, up to 'n' characters.
- Dn** A decimal value, up to 'n' characters, including decimal point, which may be optional depending on the application.
- FLAG** A yes/no indicator. It generally appears 'FLAG: YES' (or NO). A flag element without a value is assumed to be YES. Checkbox fields may be marked with 'X' to indicate Yes.
- ADDR** A "multi-line" address value. Since M12 values are limited to a single line, individual address lines are separated by the '\n' character. The first part is the CAGE/DODAAC code (see Figure 1 for examples). The ADDR type may be composed of up to 5 'lines' of address data (except as noted) in addition to the CAGE/DODAAC code. Using adjacent backslashes will create blank lines. A data element starting a backslash is assumed to have no CAGE/DODAAC. Some WAWF transactions accept the use of just the CAGE/DODAAC without an address.
- DATE** A military style date, YYYYMMDD or YYMMDD, e.g. 2005JAN01 or 93JAN01. If an estimated date is permitted, append an 'E' to it. Date should always be zero filled less than 10, as shown above.

Data Element Definitions

The following table define the data elements required for the Receiving Report, Invoice, Combo and 2-in-1 WAWF transactions, as well as those used by Std-Barc. See section that follows for information on encoding UIDs.

Document Identification Elements							
Element	Rcv Rpt	Inv	Combo	2in1	Std Barc	Type	Description
FORMTYPE	●	●	●	●		A15	Type of form that data will be mapped into. Default is DD250 (v1.10 map)
TRANSTYPE	◇	◇	◇	◇		A15	Intended transaction for data. E.g. RR, INVOICE, COMBO, 2IN1, Std-Barc. If not stated, the application will determine use.
XREF	●	●	●	●		A26	Cross Reference Number, used by Mil-Pac applications to uniquely identify a document.
● Required Element ◇ Optional Element							

Contract / Shipment Data Elements							
Element	Rcv Rpt	Inv	Combo	2in1	Std Barc	Type	Description
ACC-PT ¹	●	●				A1	Acceptance Point: [S]ource or [D]estination.
ADMINOFF	●	●	●			ADDR	Contract Administration Office
B-LADING	◇		◇			A20	Bill of Lading Number.
BLOCK23	◇	◇				A75	Line of DD250 Block 23 text (14 allowed).
CON-TYPE	◇		◇			A10	Contract for [SUPPLIES] (default) or [SERVICES].
DEST-CQA	●					FLAG	Contract Quality Assurance is to occur at Destination (ORIG-CQA overrides this).
DEST-OFC	●		●			A20	Office Number of DEST-INSP (replaced by INSP-OFC with WA250)
FMS					●	A3	Foreign Military Sales Case Number
FOB	●		●			A1	Free On Board: [S]ource/Origin, [I]ntermediate, [D]estination
GFE	◇		◇			FLAG	Government Furnished Equipment
INSP-OFC ²	●		●			ADDR	Inspection Office Code (DODAAC only)
INV-DATE	◇	●	●			A12	Date of Invoice
INV-NUM	◇	●	●			A12	Invoice Number
MARKFOR	◇	◇	◇		◇	ADDR	Mark For Address or Instructions.
METHSHIP	●		●			A1	Method of Shipment (per Mil-Std 129).
ORIG-CQA	●		●			FLAG	Quality Assurance is at Origin (overrides value of DEST-CQA).
PAYOFF	●	●	●			ADDR	Contract Payment Office
PIIN	●	●	●		●	A16	Contract Number (Procurement Instrument ID Number). See also: SPIIN
POD					◇	ADDR	Port of Departure Routing ID Code (RIC)
POE					◇	ADDR	Port of Embarkation (RIC)
PRIME	●	●	●		●	ADDR	Prime Contractor.
PROJ					●	A3	Project Code
RFID	◇				●	A1	RFID Data: [I]ncluded; [F]ollows in Pack Update, [N]ot applicable
RDD					●	A12	Required Delivery Date in Julian format (NNN, YNNN), or in the clear
SHIPFROM	●		●		●	ADDR	Shipped From (CAGE/Addr)

SHIPNUM	●	●	●			A8	Shipment Number.
SHIPPED	●	●	●		●	DATE	Date of Shipment, may be estimate if 'E' is appended.
SHIPTO	●	●	●		●	ADDR	DODAAC/Addr of Ship To.
SPIIN	●	●			●	A4	Supplemental PIIN (Order Number).
SUB-CON	◇		◇			A12	Subcontract Number.
TCN	◇		◇		●	A17	Transportation Control Num.
TERMS	◇	●	●			A20	Invoice Payment Terms.
TRANSPRI					●	A3	Transportation Priority
SHIP-WT	●		●			N5	Gross weight of shipment (whole pounds).

Line-Item Data Elements

Element	Rcv Rpt	Inv	Combo	2in1	Std Barc	Type	Description
ACRN	◇	◇	◇			A14	ACRN Appropriation Number ³
CLIN	●	●	●		●	A6	Contract Line Item Number, generally 4 digits with 2 optional alphas, e.g. 0001AA
CUBE					●	N4	Volume (of each exterior containerized unit for this item (to next whole Cubic Foot).
DODIC					◇	A4	Department of Defense Identification Code (Ammo / Explosives / HazMat)
EXTDPRC	◇	◇	◇			D13	Extended price of CLIN.
MfrCAGE					◇	A8	Manufacturer of this line item, if different than CAGE of the PRIME
MILSTRIP	◇	◇	◇			A22	Line item's MILSTRIP code ⁴
MS2073	◇		◇			A53	Mil-Std 2073 Packaging Code.
NOTE	◇	◇	◇			A48	Free-form line of item description.
NOUN	●	●	●		●	A48	Description of the item.
NSN	◇	◇	◇		●	A48	National Stock Number. General form is 'PX 1111-22-333-4444 SX', where PX and SX are optional prefix and suffix codes.
PN	◇		◇		●	A32	Prime contractor's Part Num.
PRESMETH ⁵					●	A2/3	Mil-Std-2073 Method of Preservation code (may be preceded by 'M') or 'COM'
QTY	●	●	●		◇	N5	Quantity to Ship
SHELF					◇	A16	Shelf Life Start Event and Date ⁶
SHELF END					◇	A16	Shelf Life Ending Event and Date ⁷

SHIP-ADV	◇		◇			A1	Shipment Advice Code (refer to list of codes in following section)
SN ⁸	◇		◇		◇	A48	Serial Number
UN ID					◇	A4/5	United Nations Identification Number (Ammo / Explosives / HazMat). A5 if first character is 'U'
UI	●		●		◇	A3	Unit of Issue (per Mil-Std 129).
UID	◇		◇		◇	A5	Automatic UID: [TYPE1] or [TYPE2]
UID-SRC	◇		◇		◇	A24	Explicit UID Entity and IAC
UID-PN	◇		◇		◇	A32	Explicit UID Part Number
UID-SN	◇		◇		◇	A30	Explicit UID Serial Number
UID-CPN	◇		◇		◇	A32	Current UID Part Number
UNITPRC	◇ ⁹	●	●			D11	Unit price of the line item.
WEIGHT					◇	N5	Gross weight of each exterior containerized unit for this item (to next whole pound).
Miscellaneous Elements							
Element	Rcv Rpt	Inv	Combo	2in1	Std Barc	Type	Description
CHECKSUM	◇	◇	◇	◇	◇	N8	Optional data checksum.
REM	◇	◇	◇	◇	◇	A250	Comment line (ignored).

¹ Use of ACC-PT replaces the redundant use of the ORIG-ACC and DEST-ACC (version 1).

² Use of INSP-OFC replaces both ORIG-OFC and DEST-OFC (version 1).

³ Multiple ACRNs may be stated for a CLIN, by following each with the dollar amount allocated to that appropriation number. The total dollar amount of the ACRNs must equal the extended amount for the CLIN.

⁴ Multiple MILSTRIPs may be stated for a single CLIN, by following each MILSTRIP with the Unit of Issue and Quantity allocated to it, e.g.

MILSTRIP: 29723598723801 EA 10

MILSTRIP: 29723598723802 EA 12

⁵ PRESMETH replaces the obsolete LEVEL code.

⁶ Shelf Life Start Event and Date should be "ASSEMBLED", "MFD DATE", "CURED DATE" or "PACKED DATE" plus MM/YY, e.g. "ASSEMBLED 5/01" or "CURED DATE 12/04". If "CURED DATE" is used, date should be expressed in quarters instead of month, i.e. 2Q03 instead of "5/03".

⁷ Shelf Life End Event and Date should be "EXP DATE" or "INSP/TEST DATE" plus MM/YY, e.g. "INSP/TEST DATE 5/01". If Shelf Life Start was a Cured Date, the End Date should be express in quarters instead of month, i.e. 3Q03 instead of "7/03".

⁸ Serial Number is required for UID items.

⁹ Unit Price is required for UID items.

Special Data Elements

Serial Numbers

The SN data element can appear repeatedly within an individual line item sub-section. The SN values may represent a list or range of serial numbers, or a mixture of both. For example:

SN: XYZ-0001
SN: XYZ-0008
SN: XYZ-0012 – XYZ-0015
SN: XYZ-0023.

Shipment Advice Codes

Shipment Advice Codes may be included at the item level for Combo and Receiving Report transactions. This code may default to H at either the transaction or WAWF data import level. Acceptable codes are:

A	Components Missing
B	Missing Components Furnished
C	Quantity Increase
D	Quantity Decrease
E	Replacement
F	Shipped and held in bond at contractor's plant
G	Shipped and held as GFP
H	Shipped/Performed as Required
Z	Underrun Quantity

Unique Identifier (UID) Support

This section describes the use of Mil-Pac generated Receiving Reports to properly convey UID data to the UID Registry via WAWF in transactions generated by FormStation and DD-Master. A number of techniques are provided to fit different circumstances and process flows. The proper generation of these Receiving Reports via M12 import files is also described below.

The M12 file format can be used to generate either a single DD250, or multiple DD250s via a contract master. The Mil-Pac WAWF Support Library (WASup) processes DD250s into WAWF Receiving Reports that may include UID data. These same documents can also be used to create Direct UID Registry Submittal transactions for those cases where inclusion of UID data in WAWF Receiving Reports (DD250s) is not practical.

UID registry requires several pieces of data for each item in addition to contract and shipment numbers, the item number (CLIN), product identifier (NSN/PN) and unit cost:

1. UID Type (Construct 1 or 2)
2. Entity Identifier (such as CAGE) of company assigning the UID
3. IAC (Issuing Agency Code) which controls the Entity ID
4. Part Number (Construct 2 only)
5. Serial Number
6. Fully constructed UID, built from the items above

This information may be explicitly provided for each UID submitted, or automatically generated from DD250 data. WASup can simplify the specification of UID data for contracts that use UID Construct 2, combining the Prime Contractor's CAGE code, with the part number and serial numbers for each item to automatically create UIDs.

The following examples show how to format DD250s for both automatic and explicit (manual) UID data submittal. Each example includes the corresponding M12 language used to generate the example.

Automatic Generation of Construct 2 UIDs

WASup will automatically generate these UIDs when it encounters the operator **UID: Type2**, which can appear anywhere between the nomenclature (second line) the first Serial Number.

0001	1112-01-434-0001 LN-200 IMU HOUSING P/N: 31-142 MILSTRIP: N005354281X001XXX UID: TYPE2 S/N: 2044492, 2044498, 2044499, 2044501, 2044507
------	--

Figure 1: Automatic Construct 2 UID

In this example the Prime CAGE code "1HLD9" (DD250 Block 9), part number "31-142" and each of the five serial numbers listed would be used to automatically construct the following five UIDs:

- D1HLD931-1422044492
- D1HLD931-1422044498
- D1HLD931-1422044499
- D1HLD931-1422044501
- D1HLD931-1422044507

The M12 language used to generate the above example, using the NOTE element, was:

CLIN:	0001
NSN:	1112-01-434-0001
QTY:	5
UI:	EA
UNITPRC:	900.00
EXTDPRC:	\$4,500.00
NOUN:	LN-200 IMU HOUSING
PN:	31-142
NOTE:	MILSTRIP: N005354281X001XXX
NOTE:	UID: TYPE2
SN:	2044492, 2044498, 2044499
SN:	2044501, 2044507

Figure 1B: M12 for Automatic Construct 2 UID

Mixing UID and Non-UID Items

UID generation occurs only for line items that include UID operators, such as the “UID: TYPE2” in the previous example. Intermixed line items, such as the one in Figure 2, would not have UIDs automatically generated. By the same token, you may mix UID generation methods, as there are no assumptions from one line item to the next.

0002	4452-01-341-9980 ELECTRICAL CONNECTOR RE11-442S MILSTRIP: N005354281X002XXX S/N: 4087002, 4087005
------	---

Figure 2: Standard Non-UID Line Item

Automatic Construct 1 UIDs

Automated generation of UIDs can be employed for Construct 1 UIDs, building UID data from the Prime CAGE and each serial number listed. Keep in mind that the Construct 1 serial numbers are independent of the Part Number, and must be unique across the Prime’s product line.

0003	CONNECTOR ASSEMBLY P/N: RSEE11-4S MILSTRIP: N005354281X002XXX UID: TYPE1 S/N: 777002, 777005, 777006, 777009
------	---

Figure 3: Automatic Construct 1 UID

This example would build four UIDs, using CAGE code 1HLD9 (DD250 Block 9) and each of the serial numbers.:

- D1HLD9777002
- D1HLD9777005
- D1HLD9777006
- D1HLD9777009

The M12 language used to generate the above example was:

CLIN:	0003
NSN:	7622-01-412-9912
QTY:	4
UI:	EA
UNITPRC:	956.00
NOUN:	CONNECTOR ASSEMBLY
PN:	RSEE11-4S
NOTE:	MILSTRIP: N005354281X002XXX
NOTE:	UID: TYPE1
SN:	777002, 777005, 777006, 777009

Figure 3B: M12 for Automatic Construct 1UID

Using a Different Part Number and/or Entity

It is also possible to utilize automatic UID construction in cases where the Prime uses the UID Part Number and Serial Numbers assigned by a sub-contractor or other vendor. The placement of UID-ENTITY and/or UID-PN operators before the first Serial Number overrides the prime contractor CAGE (DD250 Block 9) and/or part number (X22-5525 in the example below).

0004	1224-01-122-0044 CIRUIT HOUSING P/N: X22-5525 UID-ENTITY: 07700 UID-PN: 311875-1N42 S/N: 5525-0001, 5525-0003, 5525-0004, 5525-0006, 5525-0007, 5525-0009, 5525-0012
------	---

Figure 4: Alternative Part Number and Entity

This example will override the prime's Part Number for UID construction and submittal only. On the WAWF Receiving Report this item would still be listed as P/N X22-5525, and the prime contractor 1HLD9 (DD250 Block 9). The following UIDs would be constructed:

- D07700311875-1N425525-0001
- D07700311875-1N425525-0003 . . .
- D07700311875-1N425525-0012

CLIN:	0004
NSN:	1224-01-122-0044
QTY:	7
UI:	EA
UNITPRC:	842.00
NOUN:	CIRUIT HOUSING
PN:	X22-5525
NOTE:	UID-ENTITY: 07700
NOTE:	UID-PN: 311875-1N42
SN:	5525-0001, 5525-0003, 5525-0004
SN:	5525-0006, 5525-0007, 5525-0009
SN:	5525-0012

Figure 4B: M12 for Alternative Part Number and Entity

In the examples above we have been assuming that the Entity ID was a CAGE Code. In some cases the prime may wish to utilize part numbers and serial numbers assigned using one of the other internationally recognized Issuing Agency Codes (IAC), such as DUNS. Stating the IAC after the Entity ID, using one of the officially recognized codes, does this

0005	1224-01-788-9917 POWER REGULATOR P/N: X22-7566 UID-ENTITY: 6445227111 [IAC: UN] UID-PN: PNG911-032-5525 S/N: 7566-0008, 7566-0012, 7566-0017
------	--

Figure 5: Non-CAGE Entity Identifier

This example is similar to the one above it, except that the Entity Identifier is a DUNS number instead of a CAGE Code. The following UIDs would be constructed:

- UN6445227111PNG911-032-55257566-0008
- UN6445227111PNG911-032-55257566-0012
- UN6445227111PNG911-032-55257566-0017

CLIN:	0005
NSN:	1224-01-788-9917
QTY:	3
UI:	EA
UNITPRC:	750.88
NOUN:	POWER REGULATOR
PN:	X22-7566
NOTE:	UID-ENTITY: 6445227111 [IAC: UN]
NOTE:	UID-PN: PNG911-032-5525
SN:	7566-0008, 7566-0012, 7566-0017

Figure 4B: M12 for Non-CAGE Entity Identifier

Explicitly Named UID Components

It may be desirable to explicitly state each UID component. This is possible by providing a UID-ENTITY/IAC, UID-PN and UID-SN for (after) every serial number listed for an item.

0006	1112-01-434-0005 LN-200 INERTIAL MEASUREMENT UNIT P/N: 31-142 MILSTRIP: N005354281X001XXX S/N: 407090 UID-ENTITY: 06481 [IAC: D] UID-PN: 06481-311875-1N42 UID-SN: 407090 S/N: 407091 UID-ENTITY: 06481 [IAC: D] UID-PN: 06481-311875-1N42 UID-SN: 407091
------	--

Figure 6: Explicit UID Components

The example above demonstrates arbitrary UID assignments, in which each UID component is explicitly stated. This example would produce the following UIDs:

- D0648106481-311875-1N42407090
- D0648106481-311875-1N42407091

CLIN:	0006
NSN:	1112-01-434-0005
QTY:	2
UI:	EA
UNITPRC:	700.00
EXTDPRC:	\$700.00
NOUN:	LN-200 INERTIAL MEASUREMENT UNIT
PN:	31-142
NOTE:	MILSTRIP: N005354281X001XXX
SN:	407090
NOTE:	UID-ENTITY: 06481 [IAC: D]
NOTE:	UID-PN: 06481-311875-1N42
NOTE:	UID-SN: 407090
NOTE:	UID-CPN: 311875-1N42
SN:	407091
NOTE:	UID-ENTITY: 06481 [IAC: D]
NOTE:	UID-PN: 06481-311875-1N42
NOTE:	UID-SN: 407091
NOTE:	UID-CPN: 311875-1N42

Figure 6B: M12 for Explicit UID Components

The blank lines in the above example are not necessary, and are included solely for readability.

Legacy M12 Data Element Definition

The following table describes the M12 format as defined prior to version 2.0. It is still utilized by most Mil-Pac products.

Form Identification Elements

Element	----- 250	DD 1387	Form 1149	---- Auto Barc	MS- 2073	Type	Description
FORMTYPE	*	*	*	*		A15	Type of form data is intended to produce. Optional, default: DD250.
XREF	*	*	*	*		A26	Cross Reference Number, used by Mil-Pac applications to uniquely identify a document.

Contract Data Elements

Element	----- 250	DD 1387	Form 1149	---- Auto Barc	MS- 2073	Type	Description
ACC-PT	*	*				A1	Acceptance Point.
ADMINOFF	*	*				ADDR	ContractAdministration Office.
B-LADING	*	*	*			A20	Bill of Lading Number.
BLOCK23	*					A95	Line of DD250 Block 23 text.
DD1387		*				FLAG	A DD1387 is required.
DEST-ACC	*					FLAG	Acceptance is at Destination.
DEST-CQA	*					FLAG	Contract Quality Assurance is to occur at Destination.
DEST-INSP	*					A20	Destination QA Inspector.
DEST-OFC	*					A20	Office Number of DEST-INSP.
FOB	*					A1	Free On Board, S or D(can be SOURCE or DESTINATION).
INV-DATE	*		*			A12	Date of Invoice.
INV-NUM	*		*			A12	Invoice Number.
MARKFOR	*	*	*			ADDR	CAGE/Addr of Mark For.
METHSHIP	*	*	*		*	A1	Method of Shipment (per Mil-Std 129).
ORIG-ACC	*		*			FLAG	Acceptance is at Origin.
ORIG-CQA	*		*			FLAG	Quality Assurance is at Origin.
ORIG-INSP	*		*			A18	Inspector at Origination point.
ORIG-OFC	*		*			A18	Office Number of ORIG-INSP.
PAYOFF	*					ADDR	Contract Payment Office.
PIIN	*	*	*	*	*	A16	Contract Number (Procurement Instrument ID Num).
POD		*				ADDR	Port of Departure.

PRIME	*	*	*	*	*	ADDR	Prime Contractor.
SHIPFROM	*	*				ADDR	CAGE/Addr of Shipper.
SHIPNUM	*		*	*		A8	Shipment Number.
SHIPPED	*	*	*		*	DATE	Date of Shipment, may be estimate if 'E' is appended.
SHIPTO	*	*	*	*	*	ADDR	CAGE/Addr of Ship To.
SPIIN	*	*		*	*	A4	Supplemental PIIN (Order Number).
SUB-CON	*					A12	Subcontract Number.
TCN	*	*			*	A17	Transportation Control Num.
TERMS	*					A20	Invoice Payment Terms.

Line-Item Data Elements

Element	----- DD Form ----			Auto Barc	MS- 2073	Type	Description
	250	1387	1149				
CLIN	*	*	*	*	*	A6	Contract Line Item Number, generally 4 digits with 2 optional alphas, e.g. 0001AA
CUBE		*	*	*	*	N4	Volume (in Cubic Feet).
EXTDPRC	*	*	*	*		D13	Extended price of CLIN.
LEVEL				*	*	A3	Packaging/Packing Level, e.g A/C.
MfrCAGE	*	*	*	*	*	A8	Manufacturer of this line item.
MFRPN	*			*	*	A48	Manufacturer's Part Number.
MILSTRIP	*	*	*	*		A12	Line item's MILSTRIP code.
MS2073					*	A53	Mil-Std 2073 Packaging Code.
MS726					*	A32	Mil-Std 726 Packaging Code.
NOTE	*		*			A48	Free-form Block-16 text line.
NOUN	*	*	*	*	*	A48	Description of the item.
NSN	*	*	*	*	*	A48	National Stock Number. General form is 'PX 1111-22-333-4444 SX', where PX and SX are optional prefix and suffix codes.
PACKNOTE					*	A78	Free Form text line appended to Mil-Std Breakdown.
PN	*		*	*	*	A48	Prime contractor's Part Num.
QTY	*		*	*		N5	Quantity.
SHELF				*		A1	Mil-Std 129 Shelf Life Code.
SN	*		*	*	*	A48	Serial Number.
UI	*		*	*		A3	Unit of Issue (per Mil-Std 129).
UNITPRC	*	*	*			D11	Unit price of the line item.
WEIGHT		*	*	*		N5	Gross weight (in pounds).

Miscellaneous Data Elements

Element	----- DD Form ----			Auto Barc	MS- 2073	Type	Description
	250	1387	1149				
CHECKSUM	*	*	*	*	*	N8	Optional data checksum.
REM	*	*	*	*	*	A250	Comment line (ignored).

Special Data Elements

The SN data element can appear a number of times in a line item section, once for each unit quantity. The SN values may represent a list or range of serial numbers, or a mixture of both. For example: XYZ-0001, XYZ-0008, XYZ-0012 – XYZ-0015, XYZ-0023.

M12 Data Elements for Other Forms

SF 1034 - Public Voucher

Type/ Size	Lines	Block	Field-ID	Field Name
A17	1	Vnum	Voc-Num	Voucher Number
A42	5	Dept	Admin-Addr	US Dept, Bureau location
A25	1	Date	Vouc-date	Date Voucher Prepaid
A17	1	Snum	Sch-Num	Schedule Number
A25	1	Cnum	Cont-Num	Contract Number and Date
A17	6	Paid	Paid-by	Paid by
A25	1	Rnum	Req-Num	Requisition Number and Date

A17	1	Inv,	Invoice	Date Invoice Received
A17	1	Disc	Discount	Discount Terms
A17	1	Anum	Acct-Num	Payee's Account Number
A17	1	BNum	BL-Num	Government B/L Number
A46	5	Info	Prime-Addr	Payee's name and address
A68	1	Ship	Ship-info	Ship to and weight
A11	9	Ord,	D-Order	Number and Date of Order
A10	9	Deli	D-Delive	Date of Delivery or Service
A28	9	Arti	Articles	Articles or Services
N5	9	Qty,	Qty	Quantity
F7	9	Cost	Price	Cost
A3	9	Per,	Unt-per	Unit of Issue
F14	9	Amt,	Amount	Amount
F14	1	Tot,	Total	Total

SF 1443 - Request For Progress Payments

Type/ Size	Lines	Block	Field-ID	Field Name
A42	4	1	Admin-Addr	Name and Address of contracting office
A42	4	Pay	PayOfc-Addr	Paying office
A49	5	2	Prime-Addr	From: name and Address of Contractor
B1	1	SB1	YES	Small Business: Yes
B1	1	SB0	NO	Small Business: No
A26	1	4	PIIN	Contract No.
F13	1	5	Condol	Contract Price
N2	1	6a	Progper	Rates: Prog. Pymts
N3	1	6b2	Liq-2	Rates: Liquidation
N4	1	7a	Year	Date of Initial Award: year
N2	1	7b	Month	Date of Initial Award: month
A21	1	8a	Reqno	Progress Payment request no.
D12	1	8b	Date-req	Date of this request
D12	1	Dat	Date	Date
F14	1	9	Paid	Paid costs
F14	1	10	Incurred	Incurred costs
F14	1	11	Total	Total costs
F11	1	12	Total-inc	Total costs incurred
F11	1	12b	Add-cost	Additional costs
F14	1	13	13	Item 11 x 6a
F11	1	14	Prog-pd	Progress Payments paid to subcontractors
F11	1	14b	Liq-pymts	Liquidated progress pymts
F11	1	14c	14c-pymts	Unliquidated progress pymts
F11	1	14d	Sub-prog	Subcontract progress billings
F14	1	14e	Eli-pymts	Elible Subcontractor progress pymts
F14	1	15	Tot-dol	Total dollar amount
F11	1	16	16	Item 5 x Item 6b
F14	1	17	17	Lesser of 15 or 16
F14	1	18	Pre-tot	Total amount of previous pymts requested
F14	1	19	Max	Maximum Balance eligible for progress pymts
F11	1	20a	Inc-cost	Included costs
F11	1	20b	Items	Costs eligible for progress pymts
F14	1	20c	20c	Item 20b multiplied by 6a
F14	1	20d	20d	Eligible subcontractor progress pymts
F14	1	20e	Limits	Limitation a(3)(i) or a (4)(i)
F11	1	21a	Con-price	Contract price of items delivered, etc
F11	1	21b	Not-del	Contract price of items not delivered,etc.
F14	1	21c	21c	Item 21b x item 6b
F14	1	21d	Acc-int	Unliq. adv. payments plus accrued int.
F14	1	21e	21e	Limitation (a(3)(ii) or a (4)(ii))
F14	1	22	Max-unliq	Maximum unliquidated progress payments
F11	1	23	Red-pymt	Amt. applied and to be applied-- progress pymt
F14	1	24	24-pymt	Unliquidated progress pymts
F14	1	25	Per-pymt	Maximum permissible progress pymts
F14	1	26	amt	Amount of current invoice for progress pymts
F14	1	27	amt-contr	Amount approved by contracting officer
A7	1	Num	Num	Blank for No. in Certification
D8	1	Inf	Cer-date	Date written informaion in Certification

A43	2	REP	Rep-name	Name and title of Contractor Representative
A43	2	CON	Con-name	Name and title of Contracting Officer

DD 1149 - Requisition/Invoice/Shipping Doc

Block Width	Lines	Block ID	Field-ID	Field Name
57	4	1	From-Addr	Ship-From Address
57	4	2	ShipTo-Addr	To Address
57	5	3	MarkFor-Addr	Mark For Address
3	1	x1	Page	Page Number
3	1	x2	Pages	Total Pages (Of)
9	1	5	Req-Date	Requisition Date
21	1	6	Req-Number	Requisition Number
19	1	7	ReqDlvDate	Date Material Required
21	1	8	Priority	Priority
41	1	9	Authority	Authority or Purpose
19	1	10	Signature	Signature
21	1	11a	VoucherNum	Voucher Number and Date (YYMMDD)
21	1	11b	VoucherDate	(Voucher Date)
19	1	12	ShipDate	Date Shipped (YYMMDD)
19	1	13	MethShip	Mode of Shipment
21	1	14	LadingBill	Bill of Lading Number
41	1	15	AirMoveRef	Air Movement / Port Ref No.
35	2	4	Approp-Sym	Appropriations Symbol and Subhead
5	2	4b	ObjClass	Object Class
8	2	4c	ExpFrom	Expenditure Class (From)
6	2	4d	ExpTo	Expenditure Class (To)
9	2	4e	ChrgAct	Chargeable Activity
10	2	4f	BCActNum	Activity No
10	2	4g	BurCtrlNo	Bureau Control No
11	2	4h	TotalAmt	Total Amount
3	16	(a)	CLIN	Item Number
46	16	(b)	Description	Federal Stock Number, Description, Coding
3	16	(c)	UOI	Unit of Issue
6	16	(d)	Qty-Reqd	Quantity Requested
7	16	(e)	Qty-Shipped	Quantity Shipped
3	16	(f)	Cntr-Type	Container Type
4	16	(g)	Cntr-Nums	Number of Containers
10	16	(h)	Price	Unit Price
11	16	(i)	Amount	Extended Amount
24	1	16	ShpChrgTo	Charge Transport via MATS/MSTS to
28	1	17	SpclHndl	Special Handling Instructions
13	2	18a	IssuedBy	Issued By
13	2	18b	CheckedBy	Checked By
13	1	18c	PackedBy	Packed By
4	4	18d	Rcap-Cntrs	Recap - Container Count
4	4	18e	Rcap-Type	Recap - Container Type
24	4	18f	Rcap-Desc	Recap - Description
5	4	18g	Rcap-Wt	Recap - Gross Weight
5	4	18h	Rcap-Cube	Recap - Gross Cube
4	1	18dT	Total-Cntrs	Recap - Total Container Count
4	1	18eT	Total-Type	Recap - Total Container Type
5	1	18gT	Total-Wt	Recap - Total Gross Weight
5	1	18hT	Total-Cube	Recap - Total Gross Cube

Continuation Sheets

3	25	(a)c	CLIN-C	Item Number (cont.)
46	25	(b)c	Desc-C	Federal Stock Number, Description (cont.)
3	25	(c)c	UOI-C	Unit of Issue (cont.)
6	25	(d)c	Qty-Reqd-C	Quantity Requested (cont.)
7	25	(e)c	Qty-Ship-C	Quantity Shipped (cont.)
3	25	(f)c	Cntr-Type-C	Container Type (cont.)
4	25	(g)c	Cntr-Nums-C	Number of Containers (cont.)
10	25	(h)c	Price-C	Unit Price (cont.)
11	25	(i)c	Amount-C	Extended Amount (cont.)

Formatted Fields (post import):

Qty-Shipped: Financial
 Qty-Reqd: Financial
 Price: Financial
 Amount: Currency
 Qty-Ship-C: Financial
 Qty-Reqd-C: Financial
 Price-C: Financial
 Amount-C: Currency
 Rcap-Cntrs: Number
 Rcap-Wt: Number
 Rcap-Cube: Number
 Total-Cntrs: Number
 Total-Wt: Number
 Total-Cube: Number
 TotalAmt: Currency

CF 0250 - Commercial Shipper Invoice

Refer to DD250 specifications. Same except
 Admin-CAGE is replaced by Remit-CAGE
 Admin-ADDR is replaced by Remit-ADDR

DocType should be "CF250-2"

Other Forms

Not all forms supported by Mil-Pac products are listed in this document. In the case for non-listed forms, it should be assumed that there is a direct text format import of data into like-named form blocks. Contact Mil-Pac for more information.