M12 – File Specification

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

Updated for use with MIL-Comply

Version 3.4

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Revisions

03/26/2012   Revised for MIL-Comply use.

03/27/2012   Revised DD1348 example for use of Weight and Cube

01/05/2014   Updated SF1443 for MIL-Comply

01/11/2014   Updated SF1034 for MIL-Comply

01/24/2014   Modernized some SF1034 and SF1443 data elements

02/08/2014   Replaced SF1443 Block 27 with FMS and FMS-Amt

Introduction

The Mil-Pac M12 file format was designed as a simple data interface between Mil-Pac Technology software products and other data systems. Each line of the M12 file has a data value and its associated identifier, e.g. "CLIN:0001". The simplicity of this format makes it possible for practically any system to generate a compatible data import file. Note that MIL-Comply also supports CSV and XML formats for certain specific purposes. Mil-Pac Technical Support can assist the user in selecting and utilizing the best format for their needs.

Version 2 of the M12 format focused on supporting Wide-Area Workflow (WAWF) transactions and Mil-Std-129 barcode labeling for the Mil-Pac Classic line: DD-Master, FormStation and Std-Barc. Version 3 brings the M12 specification into alignment with MIL-Comply, Mil-Pac's fourth generation product for defense contractors. MIL-Comply's database-centric design requires more emphasis to be placed on mapping M12 data elements into a more formalized data dictionary. MIL-Comply still largely supports M12 v2 for backward compatibility with legacy applications.

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 three sections. The first sections contain document identification and contract/shipment information pertaining to the entire document. The second section describes individual contract line items (CLINs). It's data elements are repeated for each line item described.

The third section allows the specification of RFID and container data, up to and including configuration of items in containers and their sizes. The RFID section is entirely optional.

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

We will start with the following M12 file as an example, using a Version 2 compatible file because of its simpler address elements. Version 2 must be used in environments running FormStation, Std-Barc and/or DD-Master. It is recommended that Version 3 be adopted, especially the v3 address format, but, MIL-Comply will accept this v2 files for backward compatibility.

Sample files are available at http://milpac.com/specs/comply/samples.

```
REM:       -----------------------------------------------------
REM:       ----  Mil-Pac M12 Transaction Record
REM:       ----  Version 2/3 Compatible
REM:       ----  File:  Simple Shipment.M12
REM:       -----------------------------------------------------

XREF:      89X1234-0231

REM:       ------- CONTRACT INFORMATION  ----------------------
PIIN:      DLA900-89-X-1234
SPIIN:     5678
SHIPNUM:   MPT0231
SHIPPED:   90JAN23
```

```
PRIME:      98765\MIL-PAC TECHNOLOGY\PO BOX 2066\RAMONA, CA 92065
SHIPFROM:   98765\MIL-PAC TECHNOLOGY\1672 MAIN STREET\
                RAMONA, CA 92065
ADMINOFC:   S0514A\DCMR\1223 DAGGET STREET, SUITE 100/200\
                SAN DIEGO, CA 92123
PAYOFC:     S0514A\DLA-VAN NUYS\P.O. BOX 567252\COLUMBUS, OH 32556-7252
SHIPTO:     N25622\NAVAL WEAPONS CENTER\PHILADELPHIA, PA 01322
MARKFOR:    \RECEIVING OFFICER\RATING DO-A7\ACR: AB
FOB:        S
ACC-PT:     S
ORIG-CQA:   YES
INSP-OFC:   S0514A
TCN:        EY80069009X001XXX
METHSHIP:   5

REM:        ------- LINE-ITEM DETAIL ----------------
CLIN:       0017AA
NOUN:       DUCKY, RUBBER
NSN:        1111-22-333-0001
PN:         23SKDO-DCK
MFRPN:      234790-DCK-A
MFRCAGE:    8T318
QTY:        125
UI:         EA
UNITPRC:    45.50

CLIN:       0017AB
NOUN:       STOPPER, DUCKY
NSN:        1111-22-333-0002
PN:         23SKDO-STP
MFRPN:      234790-DCK-B
MFRCAGE:    7R519
QTY:        250
UI:         EA
UNITPRC:    22.50
```

Version 3 Improvements

One of the significant version 3 changes is to the way addresses may be imported. The single line method is still supported, for example:

```
ADMINOFC: S0514A\DCMA-SD\1223 Dagget St\Suite 100\San Diego, CA 92123
```

However, using the single line method may create some ambiguity as to how the data is parsed into the address components that are used by MIL-Comply and are ultimately reported to Wide-Area Workflow. This can problematic when addresses include multiple entity names and address lines, or things like phone numbers.

To give more control over that mapping, addresses may be provided as individual components. This is more precise, and may be easier for some systems to generate. The sample address above could be expressed as follows:

```
Adr-Usage:  ADMINOFC
Adr-Code:   S0514A
Adr-Entity: DCMA-SD
Adr-Addr:   1223 Dagget St
Adr-Addr:   Suite 100
Adr-City:   San Diego
Adr-ST:     CA
Adr-Zip:    92123
```

The use of this address construct is explained in more detail later.

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 '\' 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.

MLn   Multi-line text field, with lines separated by '\' characters. Each line may be up to n characters. Number of lines varies by application.

DATE   A military style date (2005JAN01), YYYYMMDD (20050101) YYMMMDD (93JAN01) or standard MM/DD/CCYY (1/1/2005 or 1/1/05). If an estimated date is permitted, append an 'E' to it.

Data Element Definitions

The following table defines the data elements required for the Receiving Report, Invoice and Combo WAWF transactions, as well as those used by Labeling. Import of UID and RFID are covered in separate sections that follow.

The only elements required for shipment/document creation are XREF, PIIN, SHIPNUM. XREF must be the first element of each document (except for Remarks). CLIN must be the first element of each line item. Each of the data elements is marked as to its required usage for generation of WAWF Receiving Reports, Invoices, and Mil-Std-129 Labeling. Not all need be imported, but it is likely that the user would need to supply any missing required elements in order to generate a valid label or WAWF transaction.

The Reference Number (XREF) is used throughout MIL-Comply to identify documents. It should be something that helpa the user identify a shipment/document. It must be unique, as it is a database key. MIL-Comply will detect and allow the user to correct redundancies. Blank XREFs are allowed, and will result in generation of an automatic reference number. In M12 files containing multiple shipments, the XREF marks the start of each document. Thus it is required, even if blank.

Document Identification Elements

Element	Rcv Rpt	Inv	Label-ing	Type	Description
XREF	●	●	●	A26	Cross Reference Number, used by Mil-Pac applications to uniquely identify a document.
FORMTYPE	◊	◊		A15	Form that is pre-selected when printing data. Default is WA250. Required for SF1034, SF1443 data.

● Required Element   ◊ Optional Element   (Blank indicates non-use)

Contract / Shipment-Level Data Elements

Element	Rcv Rpt	Inv	Label-ing	Type	Description
ACC-PT[1]	●	●		A1	Acceptance Point: [S]ource or [D]estination.
ADMINOFC[2]	●	●		ADDR	Contract Administration Office
B-LADING	◊			A20	Bill of Lading Number.
BLOCK23	◊	◊		A75	A line of Initiator Comments (DD250 Block 23) text (up to 14 are allowed).
SHIP-TYPE	●	●		A1	Shipment is of [G]oods or [S]ervices.

CQA	●			A1	Type of Contract Quality Assurance: [S]ource, [D]estination, [O]ther, [F]astPay
CQA-DODAAC	●			A6	The DODAAC of the CQA location. This data may also be provided as a complete address (InspOfc)
CQA-REP	●			A60	Name or Entity performing CQA . This data may also be provided as a complete address (InspOfc)
FMS			◊	A3	Foreign Military Sales Case Number
FOB	●			A1	Free On Board: [S]ource/Origin, [I]ntermediate, [D]estination
GFE	◊			FLAG	Government Furnished Equipment
INSPOFC	●			ADDR	Inspection Office Code (DODAAC only)
INV-DATE	◊	●		A12	Date of Invoice
INV-NUM	◊	●		A12	Invoice Number
MARKFOR	◊	◊	◊	ADDR	Mark For Address Considered to be Mark For Instructions if no DODAAC is provided. See also: MFINSTRUCT.
METHSHIP	●		●	A1	Method of Shipment (per Mil-Std 129).
MFINSTRUCT	◊			ML35	Mark-For Instructions, used in place of and/or addition to MARKFOR
NUM-CNTRS	●			N	Number of Containers
PAYOFC[3]	●	●		ADDR	Contract Payment Office
PIIN	●	●	●	A16	Contract Number (Procurement Instrument ID Number). See also: SPIIN
POD			◊	A3	Port of Debarkation Routing ID Code (RIC)
POE			◊	A3	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			●	A3/4	Required Delivery Date in Julian format (NNN, YNNN), or in the clear
SHIPFROM	●		●	ADDR	Shipped From (CAGE/Addr)
SHIPNUM	●	●		A8	Shipment (or Document Number for non-shipments).
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).
TCN	◊		●	A17	Transportation Control Num.
TERMS	◊	●		A20	Invoice Payment Terms.
TRANSPRI			●	A3	Transportation Priority
TP-Num			●	A3	Transportation Priority

Element	Rcv Rpt	Inv	Label-ing	Type	Description
SHIP-WT	●			N5	Gross weight of shipment (whole pounds).
WAWF-ARP	◊			FLAG	Qualities for Alternative Release Procedures (ARP)
WAWF-COC	◊			FLAG	Standard WAWF Certificate of Conformance (COC) is included by reference
WAWF-RFID	◊			A1	Indicates point at which RFID data will be submitted: [I]ncluded with Receiving Report, [L]ater via Pack Update, or [N]ot provided (default)

Deprecated Elements (Version 2)

Element	Rcv Rpt	Inv	Label-ing	Type	Description
ADMINOFF	●	●		ADDR	Renamed ADMINOFC, but is still accepted
CON-TYPE	◊			A10	Contract for [SUPPLIES] (default) or [SERVICES].
DEST-CQA	●			FLAG	Contract Quality Assurance is to occur at Destination. Replaced by CQA element.
DEST-OFC	●			A20	Office Number of DEST-INSP . Replaced by CQA-DODAAC element.
INSP-OFC	●			ADDR	Renamed InspOfc (hypen removed)
ORIG-CQA	●			FLAG	Quality Assurance is at Origin (overrides value of DEST-CQA). Replaced by CQA element.
SUB-CON	◊			A12	Subcontract Number (Obsolete)

Line Item-Level Data Elements

Element	Rcv Rpt	Inv	Label-ing	Type	Description
ACRN	◊	◊		A14	ACRN Appropriation Number [4]
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)
MfrCAGE			◊	A8	Manufacturer of this line item, if different than CAGE of the PRIME
MILSTRIP	◊	◊		A22	Line item's MILSTRIP code[5]
MILSDATA				A80	80-column MILSTRIP Data
MS2073	◊			A53	Mil-Std 2073 Packaging Code.
NOTE	◊	◊		A48	Free-form line of item description.
NOUN	●	●	●	A48	Official Description (Nomenclature) 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			●	A2/3	Mil-Std-2073 Method of Preservation code (may be preceeded by 'M') or 'COM'

Element	Rcv Rpt	Inv	Label-ing	Type	Description
PKGDATE			●	A5	Date PresMeth applied, or item was packaged, if no Preservation (MM/YY)
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	◊		◊	A48	Serial Number(s), or SN range (e.g. X001 – X012). Range separator must have space on either side of the hyphen. SN element may repeat without limit.
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).
UNITPRC	◊[8]	●		D11	Unit price of the line item.
WEIGHT			◊	N5	Gross weight of each exterior containerized unit for this item (to next whole pound).
Deprecated Elements (Version 2)					
EXTDPRC	◊	◊		D13	Extended price of CLIN
Element	**Rcv Rpt**	**Inv**	**Label-ing**	**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] Renamed from ADMINOFF (v1) which is still acceptable

[3] Renamed from PAYOFF (v1), which is still acceptable.

[4] 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.

[5] 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

[6] Shelf Life Start Event and Date should be "ASSEMBED", "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] Unit Price is required for UID items when submitted to WAWF.

Special Data Elements

Address Blocks

Addresses may be stated as components in version 3, resulting in more precise processing of them than the legacy single-line format. An example of the new format is:

```
Adr-Usage:  SHIPTO
Adr-Code:   W62G2T
Adr-Entity: W1BG DEF DIST DEPOT SAN JOAQUN
Adr-Addr:   25600 S CHRISMAN ROAD
Adr-Addr:   REC WHSE 16B  PH 209 839 4307
Adr-City:   TRACY
Adr-ST:     CA
Adr-Zip:    953045000
```

The **Adr-Entity** and **Adr-Addr** are required elements, and each can repeat up to three times. The first of each should contain the most important data for that element.   WAWF accepts up to seven lines of address data, but the Mil-Std-129 MSL labels can accept only three, so Labeling may filter out some elements. MIL-Comply will accept version 2 (single line) addresses, however, this format is preferred, and should result in fewer problems for WAWF submissions.

Document Identification Elements					
Element	Rcv Rpt	Inv	Label-ing	Type	Description
Adr-USAGE	●	●	●	A	Functional role of the address: • Prime — Prime Contractor • ShipFrom — Ship From location • PayOfc — Payment Office • AdminOfc — Contract Admin Office • ShipTo — Ship To location • MarkFor — Ultimate Consignee • InspOfc — Office of Govt CQA • LPO — Local Processing Office • Accept — Alternate Acceptance Point • Buyer — Buyer • Service — Service Performance Location • SIP — Ship-In-Place Location
Adr-CODE	●	●	●	A	Address identifier, either a CAGE, DODAAC or MAPAC.
Adr-ENTITY	●	●	●	A	Name of Entity or Activity. May be repeated up to three times.
Adr-ADDR	●	●	●	A	Physical location of the Entity. May be repeated up to three times.
Adr-CITY	●	●	●	A	Name of the City.
Adr-ST	●[1]	●[1]	●[1]	A2	State Code (CONUS addresses only, not OCONUS) .
Adr-POSTAL	●	●	●	A15	Postal Code (Zip5 or Zip5+4 in CONUS)
Adr-CC	●	●	●	A2/3	Country Code (optional for CONUS).
● Required Element ◊ Optional Element (Blank indicates non-use)					

Unique Identifier (UID) Support

At first glance UIDs look like a just like ordinary serial numbers, but actually there are a number of details represented within the Unique Identifier:

- Entity Identifier (such as CAGE) of company assigning the UID
- IAC (Issuing Agency Code) which controls assignment of the Entity ID
- UID Type (Construct 1 or 2)
- Part Number (in the case of Construct 2)
- Serial Number

Importing UIDs into MIL-Comply is fairly simple and straightforward.

```
UID:      D12345SK-WOM-LG21XKR0001
UID:      D12345SK-WOM-LG21XKR0002
UID:      D12345SK-WOM-LG21XKR0005
```

Note that in the example above, there is nothing to indicate which UID Construct is in use. MIL-Comply will determine that automatically, based on the line item details it encounters prior to the UIDs.   Looking at the example above in CLIN context:

```
CLIN:     0003
NSN:      1910-01-087-4453
NOUN:     BOOTS, WOMBAT
PN:       SK-WOM-LG21
QTY:      3
UI:       EA
UNITPRC:  71.09

UID:      D12345SK-WOM-LG21XKR0001
UID:      D12345SK-WOM-LG21XKR0002
UID:      D12345SK-WOM-LG21XKR0005
```

> **So, is it UID, UII or IUID?**
>
> Yes, it is confusing. UID refers to the use of unique identifiers, and in a general sense, the part-mark or data itself.   More precisely it refers to the use of unique identifers on parts, on labels, in transactions and in databases. The actual marking or data item is referred to as a Unique Item Identifier (UII). And more recently as a Item Unique Identifier (IUID).
>
> We have not found the need to be so precise, and find it less confusing to speak in terms of UIDs and let the context do the rest. We will refer to UIIs when precision is warranted, but find the use of IUID to be a bit too wonky.

Because the part number is found immediately following the CAGE code in the UID, it can be assumed that these UIIs are Construct 2.   This capability eliminates the need to keep track of the construct type, but comes with some risks.

Using UID1 / UID2 Data Elements

MIL-Comply includes UID1 and UID2 data elements, which provide a little more safety. Say the part number in the CLIN section is SK-WOM-XX21, rather than SK-WOM-LG21. MIL-Comply would assume the UIIs are Construct 1, because SK-WOM-XX21 is not present in the UIIs.

The UID1 and UID2 data elements prevent such ambiguity, and are recommended whenever the UID Construct is known. In the example above, use of the **UID2** element would have caused MIL-Comply to generate an error during import, allowing you to correct the data.

> Recommendation: For the most accurate imported, always use **UID**1 or **UID2**, if possible. **UID** is fine if that is most convenient.

UID Data Elements

Element	Labeling	WAWF Update	Type	Description
UID	R	R	A50	UID end-item of unknown Construct
UID1	R	R	A41	Construct 1 end-item UID
UID2	R	R	A50	Construct 2 end-item UID
EMBED	N	C	A50	UID to be embedded in previous UID/UID1/UID2. UID Construct is determined by EMBED-PN. May be repeated to embed multiple items within an end-item.
EMBED-PN	N	C	A30	The Part Number of the next EMBED item
MFR-ID	N	C	A5..9	CAGE or DUNS of third-party manufacturer assigning UII
(R)equired Element when importing UIDs. (C)onditional (O)ptional (N)ot Used				

The size of the composite UID elements above is stated as 50 (41 for UID1). When broken out, the components of the UII must fall within these size limits:

Element	Min	Max
IAC	2	3
Entity	5	9
Part Number	1	32
Serial Number	1	30

For example, a 39-character UID1 like D12345**SN34567890123456789012345678901234567890123**, while within the 41-character limit for the UID1 M12 data element, would be disallowed because the **serial number** portion is longer than the limit of 30 characters. Component sizes are DOD constraints.

Use of Third-Part Entity IDs and Part Number

It is possible to submit UIIs that use an Entity ID (i.e. CAGE) and/or Part Number other than that of the Prime Contractor. These must be identified for WAWF, and so that MIL-Comply will recognize such UIIs as validate UID constructs.   The MFR-ID and the UID-PN correct for these problems, and ensures that the correct manufacturer, part number and construct are reported.

```
CLIN:       0004
NSN:        1910-01-087-4453
NOUN:       BELTS, WOMBAT
PN:         BLT-WOM-CAMO
MFR-ID:     8T318
QTY:        3
UI:         EA

UID-PN:     CAMOBELT44A
UID2:       D8T318CAMOBELT44A0000001
UID2:       D8T318CAMOBELT44A0000002
UID2:       D8T318CAMOBELT44A0000004
```

This is, by the way, an example of where use of UID2 instead of simply UID would be critical. Unless UID2 was specified, the UIIs would have been assumed to be Construct 1, and the wrong part number would have been reported. With UID2 in place, MIL-Comply throws an error to warn you that the UIIs are not Construct 2 for the item part number (BLT-WOM-CAMO).

Embedded UIDs

MIL-Comply supports embedded UID items, to many levels. However, Wide Area Workflow only accepts first level embedded items, and Mil-Std-129 does not require embedded UIDs to be listed on container labels. Therefore, the M12 specification limits itself to end-items and the first level of embedded items. Contact Mil-Pac Technical Support for assistance in submitting embedded UID items beyond the first level, or directly to the UID Registry, including import formats to support that.

The following example shows three UID end-items. The first two each have two embedded items, both with the same part number.   The last end-item has embedded items using two different part numbers.

```
UID:      D12345HT-WOM-8L0001
EMBED-PN: R778ABLE
EMBED:      D8T318R778ABLESN00001
EMBED:      D8T318R778ABLESN00002

UID:      D12345HT-WOM-8L0002
EMBED-PN: R778ABLE
EMBED:      D8T318R778ABLESN00021
EMBED:      D8T318R778ABLESN00022

UID:      D12345HT-WOM-8L0003
EMBED-PN: R778ABLE
EMBED:      D8T318R778ABLESN00031
EMBED-PN: R223BAKR
EMBED:      D8T318R223BAKRSN00001
```

RFID Data Support

   MIL-Comply accepts RFID data in M12 files for two purposes: label printing and/or RFID data upload to WAWF. RFID Cases may contain UIDs, multiple CLINS (multi-pack) and may be aggregated onto pallets. Recognition of Multi-Box UID items occurs automatically in Comply/RFID Manager.   A UID that is associated with more than one RFID will be marked as being in multiple boxes when submitted to WAWF. .

   Note: Import of RFID for labeling purposes requires use of Comply/Labeling Standard Mode found starting in Release 1.0.0080, which is in limited beta release as of March 2012. Contact Mil-Pac Support for further information on its general availability.

   Use of the RFID elements is fairly straightforward.   They are placed at the end of the file, after the last CLIN, if any.   Besides RFID elements, the only other requirements are a contract number (PIIN) and shipment number (SHIPNUM).   Note that CSV is supported as an alternative for importing data consisting of RFIDs and/or UIDs for WAWF submission.

```
PIIN:       N53005-11-R-2223
SHIPNUM:    MPT0012
RFCASE:     2F120313233343500000004A
RFCLIN:     0017AA
RFQTY:      2
RFUID:      D1HLD9KKR898772000001
RFUID:      D1HLD9KKR898772000002
```

Simple RFID M12 File

RFID Data Elements

Element	Labeling	WAWF Update	Type	Description
RFPALLET	C	C	A24	RFID assigned to a Pallet.
RFCASE	R	R	A24	RFID assigned to a Case (exterior container)
RFUNIT	C	C	A24	RFID assigned to a Unit
RFCLIN	R	R	A4/6	Contract Line Item in RF-tagged container
RFQTY	R	R	N9	Quantity of the RFCLIN in the tagged container
CASE-WT	O	N	N9	Weight of RFCase in pounds (rounded up)
CASE-CUBE	O	N	N9	Volume of RFCase in cubic feet (rounded up)
PALLET-WT	O	N	N9	Weight of RFPallet in pounds (rounded up)
PALLET-CU	O	N	N9	Volume of RFPallet in cubic feet (rounded up)
(R)equired Element (C)onditional (O)ptional (N)ot Used				

M12 RFID Examples

This is a collection of typical RFID import scenarios. Some indendation was added between the operators and data for readability.   No spaces are necessary between the colon and data.

```
Rem:         ----- Two RFID Cases each on two RFID Pallets -----

RFPALLET: 2F020313233343500000001B
RFCASE:      2F120313233343500000023
RFCLIN:      0017AA
RFQTY:       2
RFCASE:      2F120313233343500000024
RFCLIN:      0017AA
RFQTY:       2

RFPALLET: 2F020313233343500000001C
RFCASE:      2F120313233343500000025
RFCLIN:      0017AA
RFQTY:       2
RFCASE:      2F120313233343500000026
RFCLIN:      0017AA
RFQTY:       2

Rem:   ---- Close the Pallet so following Cases are not placed on it
RFPALLET: CLOSE


Rem:         ----- Loose (unpalletized) Cases -----

RFCASE:    2F120313233343500000028
RFCLIN:    0023
RFQTY:     44

RFCASE:    2F120313233343500000029
RFCLIN:    0023
RFQTY:     44

Rem:         ----- Single Multipack Case -----

RFCASE:    2F120313233343500000027
RFCLIN:    0017AA
RFQTY:     2
RFCLIN:    00223AA
RFQTY:     5



Rem:         ---- Cases with UIDs -----


RFCASE:    2F120313233343500000048
RFCLIN:      0012
RFQTY:       1
RFUID:       D1HLD9KKR2356772005553
```

> The RFPALLET:CLOSE operator is necessary only in the unusual circumstance of mixing palletized and loose Cases in the same shipment.

```
RFCASE:    2F120313233343500000000049
RFCLIN:    0012
RFQTY:     1
RFUID:     D1HLD9KKR2356772005554


RFCASE:    2F12031323334350000000004A
RFCLIN:    0017AA
RFQTY:     2
RFUID:     D1HLD9KKR898772000001
RFUID:     D1HLD9KKR898772000002
```

Data for Specific Forms

The M12 file is used most often to import WAWF shipments that generally conform to the WA250 (DD250) form.   Some shipments, particular those driven by DLA purchase orders or warehouse releases may be delivered on paper DD1348 forms, accompanied by an electronic invoice submitted to WAWF. This section gives examples of data sets for specific forms.

DD1348 Example

The following is an example of an M12 file for a DD1348 shipment. This example, like most DD1348s has a single line item.   Where multiple items are included, a complete DD1348-1A is printed for each item.

```
rem: --------------------------------------------------------
rem: Sample1348-03.M12                       Mil-Pac Technology
rem:
rem: M12 V3.1-compliant                      3/27/2012
rem: --------------------------------------------------------

XREF: Sample1348-03
FORMTYPE:DD1348

Adr-Usage:SF
Adr-Code:N47273

Adr-Usage:ST
Adr-Code:N64100

1348-Blk4:51704
SHIPPED:20120710
Reqn-Num:12345200H065
SN:N/A
Doc-Id:A4A

MFInstruct:THESE ARE MARK-FOR INSTRUCTIONS
MFInstruct:WHICH CAN REPEAT
MFInstruct:UP TO SEVEN TIMES

rem:------ Line Item ----------
CLIN:0001
Noun:SUPPLY WIDGET
NSN:1234-01-222-4414
PN:PART-123ABC
Qty-Reqn:2
UI:EA
Lot:7K8-12-074
Proj-Code:KV1
CondCode:A
MILPriority:06
RDD:202
SuplAddr:N64100
UnitPrc:70.02
Weight:7
Cube:3
```

Add these Adr- elements for the optional address label portion:

```
Adr-Entity:SHIP REPAIR FACILITY
Adr-Addr:12345 TEST LANE
Adr-Addr:BLDG. 1234
Adr-City:SOMEWHERE
Adr-ST:CA
Adr-Zip:23800
```

SF 1034 - Public Voucher

```
          Type/
Field-ID  Size          Field Name
VouchNum  A17           Voucher Number
Vouchdate DATE          Voucher Preparation Date


PIIN      A25           Contract Number
SPIIN     A8            Order Number
AwardDate DATE          Contract Award Date
ReqnNum   A25           Requisition Number and Date


PayOfc    A6            Payment Office DODAAC
ShipTo    A6            Performance Site (DODAAC)
LPOCode   A6            Local Processing Office (DODAAC)
IssuedBy  A6            Contracting Office (DODAAC)


AdminOff  ADDR          Contract Administrative Office
Prime     ADDR          Prime Contractor


Total     F14           Total Invoice Amount


Comments  A80           Initiator Comments (0–25 x 80 chars)



Line Item Section (repeating)
CLIN      A6            Contract Line Item Number
Noun      A30           Nomenclature (Item Description)
Qty       N5            Quantity Shipped
UnitPrc   F12           Unit Price
UI        A3            Unit of Issue
Note      A48           Extended Description of Item (unlimited repetitions)
ACRN      Mixed         ACRN (with optional dollar allocation)
```

   ACRN may appear as a single code (ACRN: AX), or multiple codes allocated against the total dollar value of the line item quantity.   Dollar signs are optional.

```
        CLIN:      0002
        Noun:      Engineering Services
        Qty:       2
        UI:        EA
        UnitPrc:   60000.00
        ACRN:      AA $100000.00
        ACRN:      AB  $20000.00
```

SF 1443 - Request For Progress Payment

```
                        Type/
Block   Field-ID        Size        Field Name
1       Admin-Addr      ADDR        Name and Address of contracting office
Pay     PayOfc-Addr     ADDR        Paying office
2       Prime-Addr      ADDR        From: name and Address of Contractor
2b      WorkSite        A6          Service Performance Site (DODAAC)
3       SmallBiz        Flag        Small Business
4       PIIN            A26         Contract Number
4       SPIIN           A4          Order Number
5       Condol          F13         Contract Price
6a      Progper         N0          Progress Payment Rate (as a percentage)
6b2     Liq-2           N1          Liquidation Rate (as a percentage)
7a      AwardDate       DATE        Date of Initial Award: year
A21     8a              Reqno       Progress Payment Request Number
8b      Date-req        DATE        Date of thr request
IIa     ThruDate        DATE        Date Costs Reported Through
9       Paid            F14         Paid costs
10      F14             Incurred    Incurred costs
11      Total           F14         Total costs
12      Total-inc       F11         Total costs incurred
12b     Add-cost        F11         Additional costs
13      13*             F14         Item 11 x 6a
14      Prog-pd         F11         Progress Payments paid to subcontractors
14b     Liq-pymts       F11         Liquidated progress pymts
14c     14c-pymts*      F11         Unliquidated progress pymts
14d     Sub-prog        F11         Subcontract progress billings
14e     Eli-pymts*      F14         Elible Subcontractor progress pymts
15      Tot-dol*        F14         Total dollar amount
16      16*             F11         Item 5 x Item 6b
17      17*             F14         Lesser of 15 or 16
18      Pre-tot         F14         Total amount of previous pymts requested
19      Max*            F14         Maximum Balance eligible for progress pymts
20a     Inc-cost        F11         Included costs
20b     Items*          F11         Costs eligible for progress pymts
20c     20c*            F14         Item 20b multiplied by 6a
20d     20d*            F14         Eligible subcontractor progress pymts
20e     Limits*         F14         Limitation a(3)(i) or a (4)(i)
21a     Con-price       F11         Contract price of items delivered, etc
21b     Not-del*        F11         Contract price of items not delivered,etc.
21c     21c             F14         Item 21b x item 6b
21d     Acc-int         F14         Unliq. adv. payments plus accrued int.
21e     21e*            F14         Limitation (a(3)(ii) or a (4)(ii))
22      Max-unliq*      F14         Maximum unliquidated progress payments
23      Red-pymt        F11         Amt. applied and to be applied-- progress pymt
24      24-pymt*        F14         Unliquidated progress pymts
25      Per-pymt*       F14         Maximum permissible progress pymts
26      amt*            F14         Amount of current invoice for progress pymts
FMS     FMS             F3          FMS Country Code (if applicable)
Cert    Cer-date        D8          Date written informaion in Certification
27      A8              PrevPPReq   Previous Progress Payment Request Number
REP     A43             PrimeRep    Prime Contractor's Representative (signatory)
REP     A43             RepTitle    Title of Prime's Representative
                * = calculated field (importing is optional)


        Note:  Currently, only one FMS is accepted per request.
```

DD-FormStation Specific Elements
    See M12-v2 Specification, available at www.milpac.com.

Support for Mil-Pac Classic Products

This section describes support for M12 import into Mil-Pac Classic products, such as FormStation, DD-Master and Std-Barc.   MIL-Comply supports these formats for backward compatibility.

Legacy UID Support (v2)

UIDs may be imported into 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 UID-Serial Number listed. Keep in mind that the Construct 1 serial numbers are independent of the Part Number and the original/manufacturer's serial number. Type 1 UIDs must be unique across the products and shipments made by the Prime. UID serial numbers may occur on multiple lines and be composed of individual numbers and ranges. Ranges are separated by " thru " or " – " making sure to include spaces on either end for proper separation.

0003	CONNECTOR ASSEMBLY P/N: RSEE11-4S MILSTRIP: N005354281X002XXX S/N: 777002, 777005, 777006, 777009 (optional) **UID1: XYZ000001 thru XYX00003, XYZ00007** **UID1: XYZ000012**

Figure 3: Automatic Construct 1 UID

This example would build five UIDs, using CAGE code 1HLD9 (DD250 Block 9) and each of the UID

serial numbers, automatically expanding serial number ranges

- D1HLD9 **XYZ000001**
- D1HLD9 **XYZ000002**
- D1HLD9 **XYZ000003**
- D1HLD9 **XYZ000007**
- D1HLD9 **XYZ000012**

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
SN:	777002, 777005, 777006, 777009
NOTE:	UID1: XYZ000001 thru XYX00003, XYZ00007
NOTE:	UID1: XYZ000012

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 thru 5525-0004, 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
- D07700311875-1N425525-0002 . . .
- D07700311875-1N425525-0003 . . .
- D07700311875-1N425525-0004 . . .
- D07700311875-1N425525-0007 . . .
- D07700311875-1N425525-0009

```
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 thru 5525-0004SN:          5525-
0007
SN:            5525-0009
```
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 5B: 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 for the item, and a UID-SN for every serial number listed. The example below shows that each S/N has its UID-SN following it.   The original/manufacturer's serial number is not collected in WAWF, and thus is encoded only in the informational description of the item.   However, the documented association of a manufacturer's serial number (S/N) to the one assigned for UID may be still valuable.

0006	1112-01-434-0005 LN-200 INERTIAL MEASUREMENT UNIT P/N: 31-142 MILSTRIP: N005354281X001XXX UID-ENTITY: 06481 [IAC: D] UID-PN: 06481-311875-1N42 **S/N: 407090** UID-SN: IMU407090 **S/N: 407091** UID-SN: IMU407091

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:

- D0648106481-311875-1N42IMU407090
- D0648106481-311875-1N42IMU407091

```
CLIN:        0006
NSN:         1112-01-434-0005
QTY:         2
UI:          EA
UNITPRC:     700.00
EXTDPRC:     $1400.00      (optional)
NOUN:        LN-200 INERTIAL MEASUREMENT UNIT
PN:          31-142
NOTE:        MILSTRIP: N005354281X001XXX
NOTE:        UID-ENTITY: 06481  [IAC: D]
NOTE:        UID-PN: 06481-311875-1N42
NOTE:        UID-CPN: 311875-1N42

SN:          407090
NOTE:        UID-SN: IMU407090

SN:          407091


NOTE:        UID-SN: IMU407091
```

Figure 6B: M12 for Explicit UID Components

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

M12 v2 Data Element Definition

The following table describes the M12 format as defined prior to version 2.0. It is still utilized by Mil-Pac Classic products (FormStation, DD-Master and Std-Barc) and somewhat supported by MIL-Comply.

Form Identification Elements

| Element | ----- DD Form ---- | | | Auto Barc | MS- 2073 | Type | Description |
	250	1387	1149				
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 | ----- DD Form ---- | | | Auto Barc | MS- 2073 | Type | Description |
	250	1387	1149				
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-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-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.

Element	250	1387	1149	Auto Barc	MS-2073	Type	Description
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 | MS- | | |
	250	1387	1149	Barc	2073	Type	Description
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

Some of these forms may not yet be supported in MIL-Comply. Contact Technical Support for more information.

SF 1034 - Public Voucher   (Legacy Version)

```
Type/
Size       Lines   Field-ID  Field Name
A17        1       Voc-Num   Voucher Number
A42        5       Admin-Addr            US Dept, Bureau location
DATE       1       Vouc-date Date Voucher Prepaid
A17        1       Sch-Num   Schedule Number

A25        1       PIIN      Contract Number
A8         1       SPIIN     Order Number
DATE       1       AwardDate Contract Award Date

A17        6       Paid      Paid-by      Paid by
A6         1       PayOfc               Payment Office DODAAC
A25        1       Req-Num   Requisition Number and Date

A17        1       Invoice   Date Invice Received*
A17        1       Discount  Discount Terms*
A17        1       Acct-Num  Payee's Account Number*
A17        1       BL-Num    Government B/L Number*

A46        5       Prime-Addr            Payee's name and address
A6         1       ShipTo    Performance Site (DODAAC)
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

* = Deprecated for WAWF compatibility
```

DD 1149 - Requisition/Invoice/Shipping Doc

```
Block             Block
Width     Lines   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       Expendeniture Class (From)
   6        2     4d     ExpTo         Expendeniture 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
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   3       25     (a)c   CLIN-C        Item Number (cont.)
  46       25     (b)c   Desc-C        Federal Stock Number, Description  (cont.)
```

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 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.